The Mission of the Office of Graduate Studies at the University of South Florida is to exercise leadership in policy and decision making related to graduate education; promote intellectual excellence and innovation in graduate education, research and scholarly activities; and encourage multi-disciplinary teaching and research activities among students and faculty.
The University of South Florida values:

- Excellence in teaching, research, service and support activities
- Free exchange of ideas in the spirit of academic freedom and professional responsibility
- Contributions to the greater understanding and resolution of societal problems
- An open and trusting environment in which individuals can expect ethical treatment and civility in all interactions
- Human diversity, pluralism and community
- Shared governance, teamwork and collaboration in decision making
- Personal commitment and contribution to the university's greater good
- Individual growth and development

USF is an Equal Opportunity/Equal Access/Affirmative Action institution. Events, activities, programs and facilities of the University of South Florida are available to all without regard to race, color, sex, religion, national origin, handicap or age as provided by law and in accordance with the University's respect for personal dignity.

Effective dates: August, 1999 through July, 2001

This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures, and program and course descriptions at any time.
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Betty Castor
President

Thomas J. Tighe
Provost and
Executive Vice President
ACADEMIC CALENDARS
Please confirm each semester's dates with the Office of the
Registrar and/or Office of Graduate Studies
http://www.grad.usf.edu

Fall Term 1999

March 1 Mon. Last day for international applicants to apply for admission
and submit supporting documents.
June 1 Mon. Fall 1999 Application deadline
Aug. 23 Mon. First day of class
Aug. 27 Fri. Last day to withdraw/drop from courses and receive full
refund of registration fees
Aug. 27 Fri. Last day to add courses
Aug. 27 Fri. Last day for late registration
Aug. 27 Fri. Last day to pay fees
Sept. 6 Mon. Labor Day Holiday
Sept. 17 Fri. Last day to apply for Fall Graduation
TBA Last day to withdraw/drop from courses without penalty
Oct. 22 Fri. Last day to request approval for the Dissertation Defense
Oct. 29 Fri. Thesis and Dissertation Format Check Deadline
Nov. 5 Fri. Last day to defend dissertations for Fall graduation
Nov. 11 Thur. Veterans Holiday
Nov. 25-27 Thur.-Sat. Thanksgiving Holiday
Nov. 29 Mon. Final copies of dissertations due to Graduate Studies
Dec. 3 Fri. Final copies of theses/Ed.S. projects due to Graduate Studies
Dec. 3 Fri. Last day of classes
Dec. 4-10 Sat.-Fri. Final exams
Dec. 12 Sun. Commencement (Tampa)

Spring Semester 2000

August 1 Mon. Last day for international applicants to apply for admission
and submit supporting documents.
Oct 15 Thurs. Spring 2000 application deadline
Jan. 10 Mon. First day of class
Jan. 14 Fri. Last day to withdraw/drop from courses and receive full
refund of registration fees
Jan. 14 Fri. Last day to add courses
Jan. 14 Fri. Last day for late registration
Jan. 14 Fri. Last day to pay fees
Jan. 17 Mon. Martin Luther King Holiday
TBA Last day to apply for Fall Graduation
March 5 Fri. Last day to withdraw/drop from courses without penalty
March 17 Fri. Last day to request approval for the Dissertation Defense
March 13-18 Mon.-Sat. Spring Break
March 24 Fri. Thesis and Dissertation Format Check Deadline
March 31 Fri. Last day to defend dissertations for Spring Graduation
April 20 Thurs. Final copies of dissertations due to Graduate Studies
April 28 Fri. Final copies of theses/Ed.S. projects due to Graduate Studies
April 28 Fri. Last day of classes
April 29- May 5 Sat.-Fri. Final exams
May 6 Sat. Commencement (Tampa)
Summer Term 2000–Session A

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
May 15 Mon. Classes begin
May 19 Fri. Last day to withdraw/drop from courses and receive full refund of registration fees
May 19 Fri. Last day to add courses, late register and pay fees
May 29 Mon. Memorial Day Holiday
TBA Last day to withdraw/drop from courses without penalty
TBA Last day to apply for Fall Graduation
June 23 Fri. Last day of classes

Summer Term 2000–Session B

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
TBA Last day to apply for Fall Graduation
July 3 Mon. Classes begin
July 4 Tues. Independence Day Holiday
July 7 Fri. Last day to withdraw/drop from courses and receive full refund of registration fees
July 7 Mon. Last day to add courses, late register and pay fees
July 17 Fri. Last day to withdraw/drop from courses without penalty
Aug. 11 Sat. Last day of classes

Summer Term 2000 - Session C

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
May 15 Mon. Classes begin
May 19 Fri. Last day to withdraw/drop from courses and receive full refund of registration fees
May 19 Fri. Last day to add courses, late register, and pay fees
May 29 Mon. Memorial Day Holiday
TBA Last day to apply for Fall Graduation
TBA Last day to withdraw/drop from courses without penalty
June 30* Fri. Thesis and Dissertation Format Check Deadline
June 30* Fri. Last day to request approval for the Dissertation Defense
July 4 Tues. Independence Day Holiday
July 14* Fri. Last day to defend dissertations for Summer Graduation
July 21 Fri. Last day of classes
July 27* Thurs. Final copies of dissertations due to Graduate Studies
July 31* Mon. Final copies of theses/Ed.S. projects due to Graduate Studies
Aug. 12* Sat. Summer Commencement

*applies to all summer sessions
**Fall Term 2000**

March 1 Mon.  
Last day for international applicants to apply for admission and submit supporting documents.

June 1 Mon.  
Fall 2000 Application deadline

Aug. 28 Mon.  
First day of class

Sept. 1 Fri.  
Last day to withdraw/drop from courses and receive full refund of registration fees

Sept. 1 Fri.  
Last day to add courses

Sept. 4 Mon.  
Labor Day Holiday

TBA  
Last day to apply for Fall Graduation

OCT. 26 Thur.  
Last day to request approval for the Dissertation Defense

Nov. 9 Thur.  
Last day to defend dissertations for Fall graduation

Nov. 10 Fri.  
Veterans Holiday (Observed)

Nov. 23-25 Thur.-Sat.  
Thanksgiving Holiday

Nov. 30 Thur.  
Final copies of dissertations due to Graduate Studies

Dec. 8 Fri.  
Final copies of theses/Ed.S. projects due to Graduate Studies

Dec. 8 Fri.  
Last day of classes

Dec. 9-15 Sat.-Fri.  
Final exams

Dec. 17 Sun.  
Commencement (Tampa)

---

**Spring Semester 2001**

August 1 Mon.  
Last day for international applicants to apply for admission and submit supporting documents.

Oct. 15 Thurs.  
Spring 2001 application deadline

Jan. 8 Mon.  
First day of class

Jan. 12 Fri.  
Last day to withdraw/drop from courses and receive full refund of registration fees

Jan. 12 Fri.  
Last day to add courses

Jan. 12 Fri.  
Last day for late registration

Jan. 12 Fri.  
Last day to pay fees

Jan. 15 Mon.  
Martin Luther King Holiday

TBA  
Last day to apply for Fall Graduation

TBA  
Last day to withdraw/drop from courses without penalty

March 16 Fri.  
Last day to request approval for the Dissertation Defense

March 12-17 Mon.-Sat.  
Spring Break

March 23 Fri.  
Thesis and Dissertation Format Check Deadline

March 30 Fri.  
Last day to defend dissertations for Spring Graduation

April 19 Thurs.  
Final copies of dissertations due to Graduate Studies

April 27 Fri.  
Final copies of theses/Ed.S. projects due to Graduate Studies

April 27 Fri.  
Last day of classes

April 28-May 4 Sat.-Fri.  
Final exams

May 5 Sat.  
Commencement (Tampa)
Summer Term 2001—Session A

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
May 14 Mon. Classes begin
May 18 Fri. Last day to withdraw/drop from courses and receive full refund of registration fees
May 18 Fri. Last day to add courses, late register and pay fees
May 28 Mon. Memorial Day Holiday
TBA Last day to withdraw/drop from courses without penalty
TBA Last day to apply for Fall Graduation
June 22 Fri. Last day of classes

Summer Term 2001—Session B

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
TBA Last day to apply for Fall Graduation
July 2 Mon. Classes begin
July 4 Wed. Independence Day Holiday
July 6 Mon. Last day to withdraw/drop from courses and receive full refund of registration fees
July 6 Mon. Last day to add courses, late register and pay fees
TBA Last day to withdraw/drop from courses without penalty
Aug. 10 Sat. Last day of classes

Summer Term 2001—Session C

Jan. 2 Fri. Last day for international applicants to apply for admission and submit supporting documents.
March 2 Mon. Last day for graduate students to apply for admission (except for international students)
May 14 Mon. Classes begin
May 18 Fri. Last day to withdraw/drop from courses and receive full refund of registration fees
May 18 Fri. Last day to add courses, late register, and pay fees
May 28 Mon. Memorial Day Holiday
TBA Last day to apply for Fall Graduation
TBA Last day to withdraw/drop from courses without penalty
June 29* Fri. Thesis and Dissertation Format Check Deadline
June 29* Fri. Last day to request approval for the Dissertation Defense
July 4 Wed. Independence Day Holiday
July 13* Fri. Last day to defend dissertations for Summer Graduation
July 20 Fri. Last day of classes
July 26* Thurs. Final copies of dissertations due to Graduate Studies
July 30* Fri. Final copies of theses/Ed.S. projects due to Graduate Studies
Aug. 11* Sat. Summer Commencement

*applies to all summer sessions
# LIST OF DEGREE PROGRAMS

* Degree is offered in Curriculum and Instruction, with the emphasis noted

■ Degree is offered in Educational Program Development, with the emphasis noted

❖ Degree is offered in Biology, with the emphasis noted

E Evening courses available

DL Some courses may be offered through Distance Learning

P Pending BOR final approval

Programs noted in italics are new listings since the last catalog.

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LIST OF GRADUATE CERTIFICATES

For more information on Graduate Certificates, please refer to the Graduate Certificate listing in the Academic Areas section of the Catalog.

**Graduate Certificate**
- Addictions and Substance Abuse Counseling
- College Teaching
- Community Design and Development
- Comparative Literary Studies
- Creative Writing
- Development Ethics and Policy
- Diversity
- Environmental Policy and Management
- Expressive Arts
- Family & Children’s Practice, Advanced Certificate
- Florida Adapted PE Endorsement
- Geriatric Social Work/Clinical Gerontology
- Gerontology
- Gerontology, Advanced Graduate Certificate
- Hydrogeology
- Infection Control
- Instructional Design
- Instructional Network Specialist
- Interdisciplinary Transportation
- Literacy in Elementary Programs
- Marriage and Family Therapy
- Medical Ethics
- Multimedia Training Systems
- Music Performance
- Nonprofit Management
- Nurse Practitioner, Post-Master’s
- Piano Pedagogy
- Piano Performance and Pedagogy
- Planning, Evaluation, and Accountability
- Political Science
- Public Management
- Solid and Hazardous Waste Management
- Teaching Composition
- Teaching English as a Second Language
- Total Quality Management
- Web Design and Development
- Wireless Engineering
- Women’s Studies

**College**
- Arts & Sciences
- Education
- Grad. Studies/Architecture
- Arts & Sciences
- Arts & Sciences
- Arts and Sciences
- Education
- Arts and Sciences* Fine Arts*
- Arts and Sciences
- Arts & Sciences
- Arts and Sciences
- Arts and Sciences
- Public Health
- Education
- Education
- Engineering*
- Education
- Arts & Sciences
- Arts & Sciences
- Education
- Fine Arts
- Arts and Sciences
- Nursing
- Fine Arts
- Fine Arts
- FMHI*
- Arts and Sciences
- Arts and Sciences
- Engineering*
- Arts & Sciences
- Arts and Sciences
- Engineering*
- Education
- Engineering
- Arts & Sciences

*Interdisciplinary Certificates
ABOUT THE UNIVERSITY OF SOUTH FLORIDA

The University

Established in 1956, the University of South Florida is the second largest University in the Southeast and one of the top 20 largest in the nation, serving students at four campuses (Tampa, St. Petersburg, Sarasota, and Lakeland). The 34,066 University of South Florida students (Fall 1997) come from more than 100 countries (913 International students, 51% of whom are graduate), 49 states, and 62 of the 67 counties in Florida. The ratio of men to women is 2:3, 69% are undergraduates, 17% are graduate students, and 12% are in the professional programs. Approximately 3,000 African-American students, 3,000 Hispanic-American students, and over 1,600 Asian-American students attend U.S.F.

Home of the largest Distance Learning Program in the state of Florida, USF averages 10,000 enrollments annually in an estimated 260 distance learning courses. These courses are available through web-based instruction, videoconferencing, telecourses, and traditional studio classroom models. Another technological advancement for USF is the Virtual Library, now available at http://www.lib.usf.edu/virtual. The Virtual Library provides an entrance to the many electronic resources available. The USF Tampa Campus Library serves as the main research center with close to one million volumes, 20,000 journals and periodicals, a Special Collections Department, and a Government Documents Collection.

The University also offers a variety of extracurricular activities, including an outstanding intercollegiate sports program with a newly established football team, the USF Bulls.

Location

The Tampa Bay area population is approximately 2.2 million. The main campus is just 30 minutes from Ybor City - an historic enclave dating back to some of Tampa’s earliest Spanish, Italian and Cuban settlers; literally minutes from Busch Gardens; and 40 minutes from the beautiful beaches of Florida’s West coast. The area is also home to professional football, baseball, hockey and soccer teams. Nicknamed “The Sunshine State,” Florida has some of the nicest weather in the country.

Statement of Institutional Purpose

The University of South Florida is a major, publicly supported, multicampus, research university whose fundamental purpose is the creation, preservation, and dissemination of knowledge. As a Research I university, within the State University System of Florida, USF pursues a balance of research, teaching, and public service. The University generates and disseminates new insights, knowledge and forms of expression; it prepares students for their personal lives, professional careers and contributions to society; and it serves its external communities through the citizenship and expertise of its faculty, staff, students and graduates.

The University of South Florida is committed to supporting and nurturing the free expression of ideas. It embraces the role of the university as a social critic and conscience and respects and defends the rights of faculty, staff and students to speak out and act responsibly upon the social implications of their knowledge. The University values an intellectually excellent, culturally diverse academic community of faculty, staff, and students. The University strives to provide an educationally challenging environment, within and beyond the classroom, that engages
students and faculty in a common inquiry into the values of society and gives them a rational understanding of the need to accept and appreciate differences among people and cultures as a foundation for national and global welfare.

The three traditional activities of teaching, research, and public service are the foundation of the University's mission. In the conduct and delivery of its programs, the University recognizes the special characteristics of its students and the opportunities provided by the location of its campuses in thriving metropolitan areas on Florida's gulf coast. The University gives particular consideration to programs and activities that can build on these advantages to achieve national and international distinction.

As an institution dedicated to excellent teaching, the University's fundamental objective is to evoke in its students a lifelong commitment to learning that enables them to become thoughtful, active, productive and compassionate citizens. The University provides to all undergraduates a strong common curriculum in liberal education that balances the acquisition of general knowledge with the development of intellectual honesty, curiosity, creativity, critical inquiry, and personal values and ethics that include a commitment to advancing the society in which they live. Specialization in the major areas builds upon this strong liberal education and prepares graduates to enter graduate school or to embark directly upon their lives' work. Advanced studies at the graduate and professional level enable students to work with faculty at the forefront of their disciplines, to increase their depth of knowledge and personal achievement and to contribute to the advancement of their professions and the larger society. The University has high expectations of its faculty as inspirational teachers and of its faculty and students as exemplary scholars.

As a Research I university, within the State University System of Florida, the University is dedicated to the discovery of new knowledge, insights, and forms of expression through significant innovative research and other creative activity and to the preservation, organization, analysis and synthesis of existing knowledge. As a leading publicly supported university, the University accomplishes its research mission by building on existing program strengths, by fostering effective, cross-disciplinary approaches and by contributing to the resolution of social, cultural, economic, medical and technological challenges facing the largely metropolitan populations of our state and country within the international community of the 21st century.

As an institution serving the region, state and nation, the University actively encourages the use of the expertise of its faculty, staff, and students for the advantage of the larger community—to provide intellectual, cultural, health-related, and social services; to contribute to life-long learning opportunities; and to function as a catalyst for improvements within its immediate cultural, economic, and social context. USF has the assigned responsibility to provide continuing education for a 15-county area.

Within the mission of the total university, the Tampa campus plays the central role. It incorporates a comprehensive range of teaching, research, and service functions and provides essential academic leadership and administrative services for the University's multiple campuses. The missions of the regional campuses at St. Petersburg, Sarasota and Lakeland emphasize programs that respond to demonstrated regional need for undergraduate upper level and master's level education. On a selective basis, regional campuses also undertake program initiatives involving special community interests and resources. The mission of New College at Sarasota is to provide a high quality, undergraduate, liberal arts education. The special strengths of all five campuses contribute to an integrated, diversified, and comprehensive university dedicated to educational quality and leadership.
Accreditation
The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award degrees at the baccalaureate, master's, specialist and doctoral levels, including the Doctor of Medicine.

The Campuses
In addition to the main campus in Tampa, the University of South Florida has four regional campuses at Lakeland, St. Petersburg, and Sarasota (including New College). Students may enroll part-time or full-time on any of the campuses, and may also enroll on more than one USF campus simultaneously.

Tampa
4202 E. Fowler Avenue
Tampa, FL 33620
(813) 974-2011
Web: http://www.usf.edu/

For information on the Tampa campus, refer to p. 10.

Lakeland
3433 Winter Lake Road
Lakeland, FL 33803
(941) 574-7000
Web: http://www.lklnd.usf.edu/

USF in Lakeland shares the Lakeland Center with Polk Community College. Located on County Road 540 near US Highway 98, the Lakeland Center provides educational programs to students living in Polk, Highlands, and Hardee counties. The campus offers programs in: Civil Engineering & Mechanics, Counselor Education*, Educational Leadership, Electrical Engineering, Elementary Education, Engineering Management, Public Administration. (*Limited Access). Partial programs are available in: Chemical Engineering, Computer Science & Engineering, Criminology, Education, Mechanical Engineering, and Special Education. Coursework is also available towards the Public Administration Graduate Certificate.

USF's Initiative at Pasco-Hernando Community College
(813) 974-2996
Web: http://www.usf.edu/news/pasco.htm

As part of USF's commitment to expand educational opportunities throughout the region, a new initiative was established during the 1998-99 academic year. Selected degree programs are now offered at PHCC, or other locations in Pasco and Hernando counties, providing more options for students. Undergraduate programs offered are: Interdisciplinary Social Sciences (B.A.), Nursing (R.N. to B.S.N.), and General Business (B.A.). Graduate programs offered are: Library and Information Science (M.A.) and Educational Leadership (Ed.D.). Courses are offered in-person and via distance technologies. As with all off-campus credit opportunities, students in these programs must meet all USF admissions, academic standing, and graduation requirements or Academic advising is provided by each of the colleges offering degree programs as part of this off-campus initiative.
Sarasota
5700 N. Tamiami Trail
Sarasota, FL 34243-2197
(941) 359-4200
Web: http://www.sar.usf.edu/

USF at Sarasota is an educational and cultural center of local, state, and national significance. Its mission embraces two distinct, academic programs: New College of USF and the University Programs. USF’s New College is a highly selective and innovative four-year undergraduate liberal arts college. The University Programs emphasize junior, senior, and graduate courses, offering degrees in Civil Engineering, Computer Science and Engineering, Educational Leadership, Electrical Engineering, Elementary Education, Library and Information Science, Master of Business Administration, Public Administration, Rehabilitation Counseling, Special Education, and Speech Pathology (note some programs require travel to another campus to complete). The campus also offers Graduate Certificates in Gerontology, Addictions and Substance Abuse, and College Teaching. The Sarasota Campus has a responsibility for historical and environmental preservation and for the enhancement of the historic Ringling and Caples estates.

Sarasota/New College
(941) 359-4269

New College of the University of South Florida, located on USF’s Sarasota-Manatee campus, is a distinguished residential college that serves as the honors college of the State University System. It offers a nationally recognized liberal arts education at regular state tuition rates. The New College student/faculty ratio is approximately 11:1; ninety-four percent of the faculty hold earned doctorates. Students work closely with faculty members in small classes, tutorials, and on individual projects. Admission is highly selective.

New College and the University Program share many campus facilities, but each has its own faculty, student body, curriculum calendar, and academic administration. The University program offers junior and senior-level undergraduate studies in the arts and sciences and various professions, plus graduate-level professional studies to non-residential students. The campus lies within a public educational, cultural and historic district that includes the Ringling Museum of Art and the Asolo Theater. The district’s four Gilded Age mansions, three on the campus and one on the museum grounds, are listed in the National Register of Historic Places.

St. Petersburg
140 Seventh Avenue S.
St. Petersburg, FL 33701
(727) 553-1151
Web: http://www.stpt.usf.edu/

USF at St. Petersburg is the second oldest campus and has offered upper-level and graduate courses since 1968. The St. Petersburg Campus houses facilities for marine science research and training. The Department of Marine Science is an interdisciplinary venture involving faculty from several departments, in addition to the full-time Marine Science faculty members responsible for graduate research and teaching. The location of the campus at the central edge of the continental shelf of the Gulf Coast and in the midst of the metropolitan Sun Coast is a unique advantage. The Florida Institute of Oceanography, a research institute of the State University System, is also located on the St. Petersburg Campus.
Contacting the University

Applications and Admissions
Office of Graduate Admissions, FAO 100N 974-8800

Career Counseling, SVC 2124 974-9403

Career Center
Alumni Placement Services, SVC 2088 974-2171
Career Planning and Advising, SVC 2088 974-2171

Continuing Education Courses, Registration, SVC 1034 974-2000

Counseling, SVC 2124 974-2831

Disabled Student Academic Services, SVC 2043 --- (VOICE)(TDD) 974-4309

Financial Assistance (scholarships, loans, employment)
Minority Graduate Student Advising, FAO 126 974-2846
Student Financial Aid, SVC 1102 974-4700
Student Employment, SVC 1102 974-2298

Graduate Studies, FAO 126 974-2846

Graduation Information,
Commencement, SVC 1100 974-9406
Graduate Certification, SVC 1034 974-2000

Health Services, SHS 100 974-2331

Information (Tampa Campus) 974-2011

International Students and Scholar Services, CTR 259 974-5102

Library Resources:
Library Information, LIB 122 974-2727
Tampa Campus: Director of Libraries, LIB 207 974-2721
St. Petersburg Campus: University Librarian, POY 118 893-9125
Sarasota Campus: Office of the Librarian 359-4300

Parking Services, PSB 101 974-2628

Records, Registration SVC 1034 974-2000

Student Affairs ADM 151 974-2151

Transcript Requests (USF), SVC 1034 974-5349

Veterans Services, SVC 2127 974-2291
GRADUATE ADMISSIONS

4202 E. Fowler Avenue, FAO 100B
Tampa, FL 33620
(813) 974-8800 (automated)
(813) 974-2846
e-mail: admissions@grad.usf.edu
WebAddress: http://www.grad.usf.edu

Director: Patricia R. Pekovsky
Senior Admissions Officer: Francisco Vera
Admissions Specialists: Diana K. Johnson, Nancy Moenning, Melia Smith
Admissions Support Staff: Mark Freeman, Evelyne Keeton-Williams
Information Specialist: Theresa Collins

University Admission Criteria

Students who seek admission to a graduate degree program as first-time or transfer graduate students shall be required to meet minimum State University System requirements. However, meeting minimum admissions requirements does not guarantee admission to a particular program. Individual programs may set additional or more selective requirements. Also, because some programs accept only a limited number of students, or do not have the faculty or facilities to accommodate a student’s particular area of study, many applicants who exceed minimum requirements may not be accepted. Additional admission requirements are listed in the appropriate sections in this Catalog or can be obtained by contacting the program.

In order to be considered for admission, a first-time graduate student or a student transferring from a graduate program at another university must:

A. Have a bachelor’s degree or equivalent from a regionally accredited university,
B. Take the Graduate Record Examination (GRE) or an equivalent measure approved by the Board of Regents (BOR) within five years preceding application, and
C. Meet at least one of the following criteria:
   1. Shall have earned a graduate degree from a regionally accredited institution, or
   2. Shall have earned a “B” (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree, or
   3. Shall have a total verbal plus quantitative GRE General Test score of 1000 or higher, or an equivalent score on an equivalent measure approved by the BOR, taken within five years preceding application.

Upon recommendation from the applicant’s intended program of study and college, the university may waive the GRE Score Reporting Requirement in individual cases.
Conditional Admission Criteria
A program and/or college may admit students conditional upon satisfaction of requirements separate from University minimum requirements. These conditions may include attendance in specific core or remedial courses and/or required earned GPA of 3.0 for those courses. Failure to satisfy those conditions by the deadline established by the program will result in academic dismissal from the program.

Exception Admission Criteria
Applicants from non-regionally accredited U.S. institutions may apply for special consideration for admission on an individual basis if they score at least 1000 on the verbal plus quantitative portions of the GRE General Test, or 500 on the Graduate Management Admission Test (GMAT), and have a “B” average or better on all work attempted as an upper division student working for a baccalaureate degree. The University may admit up to 10% of new enrollees as exceptions to the Board of Regents minimum requirements. To be considered for an exception, a student should present evidence that their academic preparation was such that it might account for less than the minimal scores on the GRE and the GPA, and evidence of potential for academic success such as excellent letters of recommendation from trusted academicians, performance in graduate courses taken as a post-bachelor’s student, professional experience in his/her discipline for a period of time, etc… Each request for a 10% exception must include a statement describing the special circumstances of the applicant. It is at the discretion of the program and college to accept exception application requests.

Provisional Admission Criteria
Applicants accepted for admission whose official documents (transcripts and/or test scores) have not been received by the Office of Graduate Admissions are admitted provisionally pending receipt of these missing items. The required transcripts and/or test scores must be received before a second semester registration is permitted. Failure to provide the missing documents by the end of their first semester of attendance will result in a student having their admission into their degree seeking program rescinded and their transcript of completed coursework reflect non-degree seeking status.

Deferment of Admission/Update Requests
A student’s acceptance is granted for that semester and the particular program specified in the official acceptance notification. The student must validate that acceptance by enrolling for that semester. If admission has not been granted because of a late application or missing credentials, or if the student does not enroll for that specific semester, the student must request that the Office of Graduate Admissions update the application for a future semester and specify the new enrollment date. This request must be made in writing within 12 months of the initial requested entry date. Applications are held for only 12 months. If a request for change in entry date is not received in the specified time, a new application and fee must be submitted. Request for change in entry date must be received no later than the program or University application deadline for the semester desired, whichever is earlier. Requests for deferment are referred to the program/college for approval.

Denial of Admission/Appeal for Reconsideration Criteria
Applicants denied admission will be given timely notice in writing. Denied applicants who meet the minimum systemwide standards (3.0 GPA or 1000 GRE) may write the Graduate Program Director of the program applied to within 30 days of the date of denial to request reconsideration. The request should present additional evidence of potential for academic success at USF and contain reasons why reconsideration is warranted. Applicants denied admission to a degree-seeking program are eligible to enroll as special (non-degree seeking) students.
Re-Admission/Change of Program Policy
A graduate student who has not been in attendance at least one semester during the past 12 months must apply for re-instatement of admission by contacting the Graduate Program Director of his/her degree-seeking program by the program's admission deadline date.

If, on completion of one graduate degree, a student wishes to begin work on another advanced degree at USF, the student must reapply through the Office of Graduate Admissions.

A continuing graduate student enrolled for study in a particular program who wishes to change to another program at the same or lower level must complete the Application for a Change of Graduate Program form #USF 2085. The most recent version of this form is available at the Office of the Registrar or the Office of Graduate Studies.

Application Procedures

The University accepts applications as early as one year in advance; therefore, prospective students are advised to apply early. Some departments have earlier deadlines than those listed in the Academic Calendar. In addition to the University deadlines (see Academic Calendar), students should check the requirements for the specific programs in which they are interested.

All transcripts and test scores must be received in the Office of Graduate Admissions by the University and program deadlines (whichever is earlier.) Applicants whose credentials are not received by the deadline will not be considered for that semester unless so requested by the program/college.

For international students, the application and corresponding materials must be received by USF by the international deadline date:

- Fall Term – March 1st
- Spring Term – August 1st
- Summer Term – January 2nd

These deadline dates apply to all international students, including those currently in the U.S. Earlier program deadlines take precedence over the international deadline dates.

Submission of an application does not guarantee admission. Application and program information are available on the Office of Graduate Studies World Wide Web home page (http://www.grad.usf.edu).

All student applicants must submit:

1. A USF Graduate Application for Admission, or International Graduate Student Application Form.

2. A $20 non-refundable check/money order drawn on a U.S. bank in U.S. currency only. Do not send cash. **Current or former USF degree-seeking students are exempt from paying a second application fee.** Applications received without the application fee (except for current or returning USF degree-seeking students) will not be processed and will be destroyed one calendar year from date of receipt.

3. Two official transcripts from every institution of higher learning attended where a bachelors or higher degree was awarded. Transcripts and all other documents in a language other than English must be accompanied by a certified English translation signed and sealed by an authorized government or school official.
International Applicants must submit certificates, diplomas, and transcripts showing subjects and grades from the first year of university work to the time of application.

4. Official test scores (GRE, GMAT, and/or TOEFL) must be sent directly from Educational Testing Service (ETS) to the Office Graduate Admissions. All applicants, except those applying to Business Administration, must submit scores from the GRE General Test taken within 5 years preceding application. Business Administration (except Economics program) applicants must submit scores from the GMAT taken within 5 years preceding application. Applicants whose native language is not English are required to submit scores from Test of English as a Foreign Language (TOEFL) taken within 2 years of application. A minimum score of 550 (paper based) or 213 (computer based) is required. International students having earned a bachelor's or higher degree in a country whose official language is not English are not required to take the TOEFL. In addition, applicants whose native language is not English and who intend to apply for a teaching assistantship must submit scores from the Test of Spoken English (TSE). A minimum score of 50 is required for most programs. Please contact your program of interest for more information on TSE minimum requirements.

5. Letters of recommendation, attesting to academic performance and ability, or personal statements may be required. (See the individual program section for information).

6. International Students must also provide a certificate of financial ability showing proof of financial resources sufficient to cover tuition, fees, room and board, and other expenses for the full academic year. The student must assume travel costs. Students who have signed a statement indicating sufficient financial resources cannot expect the University to assume responsibility if their funds prove inadequate. No I-20 Student Visas or IAP-66 Scholar Visas will be issued to admitted applicants without an original financial statement certified by a bank for the amount specified in the Graduate International Application for the academic year requested by the applicant.

In order to ensure timely issuance of an I-20 or IAP-66, graduate programs are to advise the Office of Graduate Admissions of any Graduate, Research, Teaching Assistantships, and/or Fellowships awarded to applicant at the time the Graduate Application Referral form is returned.

7. Health Insurance Coverage for International Students
Upon admissions, all non-immigrant degree-seeking international students must demonstrate that they have adequate health insurance coverage for illness and injuries in the United States. Health Insurance information is available by contacting Student Health Services insurance@shs.usf.edu or (813) 974-5407.

8. Medical History / Immunization Requirement
As a prerequisite to registration, the State University System of Florida requires all students born after 1956 to present documented proof of immunity to Measles (rubeola) and all students less than 40 years of age to present documented proof of immunity to Rubella (German measles). A medical history form is also
required to be submitted. These forms will be sent to applicants admitted to the University of South Florida with the Official Notification of Acceptance correspondence. Refer to the section on Registration/Getting Started for more information.

**Application Documents Access/Forward/Return Policy**

No application, test scores, transcripts, letters of recommendations, or other documents submitted with the application package will be returned to the applicant or forwarded to another institution. The Office of Graduate Admission applicant file is not to be released to the applicant or other third parties. Requests, subpoenas, or court orders are to be forwarded to the Office of the General Counsel after review by the Director of Graduate Admissions. Application status information may be communicated only to the applicant and third parties authorized by the applicant on a signed release form on file with the Office of Graduate Admissions.

Applicants once admitted and enrolled during the term of admission may request access to their student file at the Office of the Registrar. Letters of Recommendation that the applicant has waived the right to view (indicated on Request for Recommendation Form) are not to be given, copied or viewed by the applicant or third parties. Requests for degree/enrollment verification information are referred to the Office of the Registrar.

Office of Graduate Admissions graduate application files may be copied and released to USF staff conducting legitimate University business. No graduate application files (originals or copies) are to be taken off campus for review or processing.

**Conduct Clearance Policy**

All graduate applicants are required to answer the Conduct Clearance portion of the graduate application. The applicant will not be notified of the admission decision until answers to the two questions have been received and cleared by the Vice President of Student Affairs or his/her designee (Associate Dean of Students), if warranted.

**Florida Residency Policy**

**Determining Classification:**

In determining residency classification, students are either *independent students* (students who provide more than 50% of their own total support and expenses and are *not* eligible to be claimed on a parent’s or legal guardian’s federal income tax statement) or *dependent students* (students, regardless of age, who provide less than 50% of their own total support and expenses *or* are claimed as dependents by parent or legal guardian on federal income tax statement).

The law requires that a U.S. citizen or a permanent resident alien who is an independent student or a dependent student’s parent/legal guardian establish and maintain a *legal* Florida residence and physical presence in Florida for at least 12 months before the first day of classes of the term for which Florida residency status is sought. USF is required to obtain documentation of 12 months’ legal residence and physical presence before a student is classified as a Florida resident for tuition purposes.

**Procedure for Applicants:**

Applicants wishing to be classified as Florida residents for tuition paying purposes must sign and complete the Florida Residents section of the Florida Residency Classification page of the Graduate Application. Incomplete or unsigned forms will be classified as non-Florida residents.
The Office of Graduate Admissions will classify applicants as Florida residents if they have provided documentation that verifies they began living in Florida at least twelve months before the start of classes of their admitted term of entry. Upon the presentation of additional documentation and/or completed/signed the Florida Residency Classification, the Office of Graduate Admissions may change the residency classification during the student’s first semester of enrollment. All subsequent residency changes are made by the Office of the Registrar and must be filed by the 5th day of classes for the term being requested.

Procedure for Enrolled Students:
An enrolled student seeking reclassification from non-Florida to Florida residency is required to file the Request for Change of Residency Status form and submit supporting documents to the Registrar’s Office no later than the 5th day of classes in the term for which re-classification is sought.

Documentation:
The following is acceptable, non-conclusive evidence of the establishment of a legal residence in Florida. At least one such document must be dated/issued at least 12 months before the first day of classes of the term for which Florida residency is sought.

1. Proof of purchase of a permanent home in Florida
2. Declaration of Domicile
3. Florida Driver’s License
4. Florida Voter’s Registration
5. Florida Vehicle Registration
6. Florida Vehicle Title
7. Professional/Occupational license in Florida
8. Florida incorporation or other evidence of legal residence in Florida
10. Absence of legal ties with another state.

Please note: Rent receipts, leases, tax returns, school/college records are not evidence of establishing a legal Florida residence. Students who are dependent on out-of-state parents or who come to Florida for educational purposes are generally ineligible for reclassification to Florida status. In rare cases, the law allows some students (e.g., military, public school teachers, etc.) who do not meet the basic requirements to be classified as Florida residents for tuition purposes. For more information about exceptional categories, contact the Office of the Registrar.

Students with Disabilities Policy
Students with disabilities apply for admission under the same guidelines as other students. If you feel your disability has had an impact on grades, course choice, or standardized admission test scores you may request consideration of this in the admissions process. Students requesting substitution of departmental graduation requirements will need to contact the chair of their department. Please submit documentation to support your request for an exception.
Testing Information
Applications for the required tests may be obtained from the addresses listed below. For more information contact the USF Evaluation and Testing Office at 974-2741.

Graduate Record Examination (GRE)
Educational Testing Service
Box 955
Princeton, NJ 08540, USA

Graduate Management Admission Test (GMAT)
Educational Testing Service
Box 966
Princeton NJ 08540, USA

Test of English as a Foreign Language (TOEFL)
Educational Testing Service
Box 899
Princeton, NJ 08540, U.S.A.

Testing Services at USF
The University of South Florida’s Division of Lifelong Learning offers test preparation courses for the GRE and GMAT. Reviews feature experienced instructors, flexible scheduling and affordable pricing. For more information, please call (813) 974-5201 or visit their Web site at: www.conted.usf.edu.

The USF Evaluation and Testing Office now offers computer based testing for the GRE, GMAT, TOEFL, and PRAXIS. They offer free earplugs, evening and Saturday hours, monthly retakes, a quiet environment, phone and walk-in registration, an academic environment, immediate score reports and a convenient campus location. Another new service is a FREE GRE Test Demo, just visit their web site. For more information, please call (813) 974-7501 or visit their Web site at http://usfweb.usf.edu/ugrads/eandt/etsandusf.htm.
REGISTRATION / GETTING STARTED

Registration
University Office of the Registrar
4202 E. Fowler Avenue, SVC 1034
Tampa, FL 33620
(813) 974-2000
(813) 974-4488 (TTY)
e-mail: regquest@admin.usf.edu
WebAddress: http://www.rmit.usf.edu/enrolVregist/regist.htm

University Registrar: Angela DeBose
Associate Registrar: Lois Palmer

Registration dates, information, and instructions are published each term in the Schedule of Classes. Regular registration and early drop/add for continuing degree-seeking students are conducted by telephone or in person. New degree-seeking students receive registration instructions for their first term from the Admissions Office.

Students who have not registered prior to the beginning of the term may register late during the first week of classes. A $100 late registration fee is charged degree-seeking students. All registered students may drop or add courses during the first week of classes without penalty. Students owe fees for all courses on their records at the end of the fifth day of classes. Fees must be paid or, if mailed, postmarked by the fifth day of classes to avoid cancellation of registration.

Medical History / Immunization Requirement
Student Health Services
4202 E. Fowler Avenue, SHS 100
Tampa, FL 33620
(813) 974-2331
(813) 974-1758 (TDD)
e-mail: info@shs.usf.edu
WebAddress: http://www.shs.usf.edu

Director: Maria J. Anderson

According to Florida Administrative Code Rule 6C-6.001(4), “Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student.” The form will be provided with the admissions letter. The University requires all students under the age of 40 to present acceptable proof of immunity to measles and/or rubella or to secure an approved medical or religious exemption as a condition of registration. All students born after December 31, 1956 must submit documented proof of immunity to measles. All students under the age of 40 must present documented proof of immunity to rubella. Acceptable proof of immunity must be received prior to a student’s being
permitted to register. Students may obtain the Immunization form and present the documented proof of immunization to:

USF at Tampa
Student Health Services
USF SHS 100
Tampa, FL 33620

USF at Sarasota
Office of Student Affairs
5700 N. Tamiami Trail
Sarasota, FL 33580

USF at St. Petersburg
Records Office
Bayboro Hall 126
140 7th Avenue S
St. Petersburg, FL 33701

USF at Lakeland
State Road 540
Lakeland, FL 33803

Students registering only for off-campus courses in the following categories are temporarily exempt from the immunization requirement: Bachelor of Independent Studies (BIS), Open University (TV), FEEDS Program, Off-Campus Term (OCT), Cooperative Education, Continuing Education, and special workshop courses that meet off campus.

Tuition and Fees
University Cash Collections (Cashier’s) Office
4202 E. Fowler Avenue, ADM 147 (Located ADM 131)
Tampa, FL 33620
(813) 974-6054

Manager: Bonnie Wilson

Tuition
The following fee schedule applies to all USF graduate students on the Tampa Campus for the 1999-2000 Academic year. All tuition and fees are subject to change, without prior notice. The University will make every effort to advertise any such changes if they occur. The student is responsible for paying fees in full by the appropriate due date stated in the University Schedule of Classes. For information on Residency for tuition purposes, refer to the Florida Residency Policy in the Graduate Admissions section of the catalog.

<table>
<thead>
<tr>
<th>Course Level</th>
<th>4000</th>
<th>5000/6000/7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-State/credit hour</td>
<td>$72.75</td>
<td>$142.10</td>
</tr>
<tr>
<td>Out-of-State/credit hour</td>
<td>$294.61</td>
<td>$485.66</td>
</tr>
</tbody>
</table>

Payment Information
All registration fees and all courses added during the drop/add period must be paid in full by the payment deadline date specified in the current University Class Schedule. Registration fee payment may be made in person or mailed to the Cashier’s office (address above). Students not on an authorized deferred payment plan and who have not paid their registration fees in full by the published deadline will have their registrations canceled. A student will receive no credit for any courses taken during that semester. Students who are allowed to register in error may have their registration canceled. Any fees paid will be refunded or credited against any charges due the University.

Financial Aid Checks (Warrants)
Financial aid checks are available in the Administration Building after registering during the first week of classes. Checks must be picked up and fees paid by the end of the first week of classes.
Intern Certificate of Participation
Students who present Intern Certificates for payment of their registration fees will be required to pay $4.76 per hour for all credits taken during the semester. These students may register for an unlimited number of credit hours during a given semester and will not be charged a Student Health Fee.

State Employee Tuition Waivers
A degree-seeking or non-degree seeking student who is employed by the State of Florida (including USF) and who has secured all required employer approvals on the State Employee Tuition Waiver Form must register at or after the time specified in the Schedule of Classes. The State Employee tuition waiver covers a maximum of 6 credit hours (excluding thesis, dissertation and directed individual study courses, internships, practicum, one-to-one music/theatre performance, cooperative education, Program for Adult Credit Education (PACE), Lifelong Learning, Continuing Education, correspondence, Distance and Technology Mediated Learning, and any other non-credit or one-to-one instruction courses) and is applicable only if the student registers for these credits during published registration periods.

A State Employee who registers at any time other than the approved State/Staff Registration Dates, may not use the State Employee waiver and will be liable for these fees. Waiver forms must be completed and turned in to the Cashier’s Office by the fee payment deadline in order to avoid the $50.00 Late Payment Fee. All hours in excess of 6 must be paid for at the regular rate.

Veteran Deferment Benefits
Students receiving VA benefits who apply in writing no later than the specified date for the 60-day deferment of fees from the Office of Veteran’s Services have until a date listed in the University Class Schedule to pay registration fees in full.

Refund of Fees
The following refunds, less deductions for unpaid debts to the University, are authorized. A Refund Request form must be completed and presented to the Accounts Receivable Department in the Division of Finance and Accounting to initiate the refund process. A two-week waiting period is observed for each refund in the event a check is returned.

(a) 100% of registration fees and tuition will be refunded if notice of withdrawal from the University is approved prior to the end of drop-add period and written documentation is received from the student.

(b) 25% of registration fees and tuition paid, less building and capital improvement fees, will be refunded if notice of withdrawal from the University is approved prior to the end of the fourth week of classes (or at an appropriate time as designated by the University for summer sessions) and written documentation is received from the student.

(c) 100% of registration fees and tuition will be refunded when a student withdraws or drops a course due to circumstances determined by the University to be exceptional and beyond the control of the student, including but not limited to:
1) Illness of a student of such severity or duration, as confirmed in writing by a physician, to preclude completion of the course(s),
2) Death of the student or death in the immediate family (parent, spouse, or sibling).
Registration / Getting Started

3) Involuntary call to active military duty.
4) A situation in which the university is in error.
(d) Students who receive financial aid and subsequently change their enrollment status which results in a refund in accordance with this subsection, may have all or a portion of their refund returned to the University's financial aid programs in accordance with the Financial Aid Policy on Refunds and Repayments.

Payment of Accounts Due the University
Charges against students for loss or breakage of University equipment or books, fines, and other charges are due immediately. Delinquent accounts may be considered sufficient cause for cancellation of registration. University regulations prohibit registration or release of transcript for any student whose account with the University is delinquent. Payments should be brought or mailed to the Cashier's Office.

Parking Regulations and Fees
Parking Services
4202 E. Fowler Avenue, PSB 101
Tampa, FL 33620
Phone: (813) 974-3990
web ID: http://www.usfweb.usf.edu/parking_services/

Director: Marie Hunniecutt

Students may use properly registered motor vehicles on any University campus. Parking facilities are provided for resident students, commuter students, faculty, staff, and visitors. All motor vehicles and bicycles must be registered with the campus Parking Services Department. This applies to full-time or part-time, day or evening students. To register a vehicle, a valid staff, student, or employee identification card will be required. State vehicle registration, indicating owner of vehicle, must be shown to the clerk of the Parking Services Department on request. Yearly fees for students registering after the first semester will be prorated. Students may park in remote areas for a lesser fee. All decals expire on 31 August.

Motorcycles and mopeds must also be registered. There is no fee for registering bicycles. All staff/students with physical disabilities that impede walking may apply to the Parking Services Department of the local campus for a numbered handicapped sticker. Persons will receive vehicle registration decals free of charge if they are wheelchair-bound, legally blind, hold a current State of Florida Handicap Parking Permit, or have military disability of 50% or greater with V.A. certificate or letter from a physician. Other disabled registrants will pay the regular fee. Wheelchair-bound registrants are entitled to an exclusively numbered H.C. parking space. Other H.C. registrants shall share spaces marked Reserved Handicapped.

Financial Assistance
Financial assistance is available through the Office of Graduate Studies, the College of your major, the Office of Financial Aid or external sources. It is wise to check all sources to be fully aware of the programs for which you may qualify.
Assistantships or Associateships
Assistantships are awarded by the individual departments of each college. Please contact the Graduate Program Director or Department Chair for more information. To be eligible to obtain a Research, Teaching, or Graduate Assistantship or Associateship, a student must be degree-seeking and be enrolled each semester for the number of credit hours specified by his or her program. In special cases a research assistant or associate may be non-degree seeking for one semester only. All assistants appointed .25 FTE or higher are eligible for a partial tuition waiver.

Fellowships, Grants, and Scholarships
USF Fellowships, Grants and Scholarships are funds distributed by the University to students for which no work or repayment is required. Graduate Studies administers the Graduate Educational Opportunity Grant (GEOG), The Latino Graduate Fellowship (LGF), the Delores Auzenne Fellowship, and the SUS Special Summer Program. Please note that many deadlines for application occur in late Fall or Early Spring. For questions or additional information, call (813) 974-2846 or on the web at http://www.grad.usf.edu.

GEOGs are awarded to outstanding African-American graduate students. Recipients receive $3,500 per semester (fall and spring) and a partial tuition waiver of up to 9 hours per semester. Master’s students are eligible for 4 semesters of support; Doctoral level, 6 semesters. Eligible students must have a minimum GPA of 3.0 in the last two years of undergraduate work, and a minimum GRE of 900 or GMAT of 450.

The Latino Graduate Fellowships (LGF’S) are awarded to outstanding Latino graduate students who demonstrate both academic excellence. Recipients receive $3,500 per semester (fall and spring) and a partial tuition waiver. Recipients are eligible for 2 semesters of support, but may reapply. Applicants must demonstrate financial need, have a minimum GPA of 3.0 in the last two years of undergraduate work, and minimum GRE of 900 or GMAT of 450.

SUS Special Summer Program provides minority students an opportunity to acquaint themselves with graduate study. A stipend of $1300 is provided for summer study. Students are required to enroll in at least one graduate course during the summer and attend weekly program-related workshops.

The Delores Auzenne Fellowship is awarded to full-time minority graduate students pursuing degrees in disciplines in which minority students have low representation. $5000 per academic year ($2500 each for Fall and Spring semesters). Students are supported for one year but can reapply for continued support.

External Sources of Aid:

The McKnight Doctoral Fellowship Program ($11,000 per year plus tuition waiver) is available for minority U.S. citizens (and women in some fields) pursuing a Ph.D. at USF or the nine other Florida universities. All Arts and Sciences, Mathematics, Business and Engineering fields are eligible. Contact the Florida Endowment Fund (813) 272-2772 for more information.

Richard F. Pride Research Fellowship ($15,000 per year plus tuition waiver) is available for minority U.S. citizens seeking a Ph.D. on a full-time basis in a defined liberal arts field. Contact the Institute on Black Life, (813) 974-4729.
Financial Aid
Office of Financial Aid
4202 E. Fowler Avenue, SVC 1102
Tampa, FL 33620
Phone: (813) 974-4700
Voice Response System: 813-974-9300
web ID: http://www.rmit.usf.edu/enrolufluaid/finaid/finaid.htm

Director: Leonard Gude

The Office of Financial Aid administers the Federal Work Study Program and several loan programs for which graduate students qualify. In addition, there is a Scholarship Resource Center which allows students to access information on private sources of funding through computerized databases, as well as source books. Students interested in financial aid should apply as soon as possible after January 1, each year, for the coming academic year. Programs that are awarded by the Office of Financial Aid have limited funds, and are awarded on a priority basis.

Application packets are available outside the Office of Financial Aid, SVC 1102, or call (813) 974-3730 and request one. The Free Application for Federal Student Aid (FAPSA), included in the packet, is used to determine financial need for most forms of financial aid.

Students whose financial aid funds are delayed may qualify for temporary deferment of tuition and fees and for a Financial Aid Short Term (FAST) Book Loan. Deferments are automatically granted to eligible students; however, FAST book loans must be requested individually. In addition, the Office of Student Financial Services, ADM 176, has a limited amount of funds for short term loans which are not contingent upon delayed financial aid. These loans are for tuition or emergency purposes once fees are paid. Details can be obtained by contacting that the Office of Student Financial Services at (813) 974-4886.

Tax Liability
Students who receive scholarships, grants, fellowships, or tuition waivers are responsible for record keeping, filing, and for the payment of any income tax that may be due. For more information request IRS Publication 520 at 1-800-829-3676.

Transfer Students
Transfer of graduate credit from a regionally accredited school is limited to 8 semester hours or 3 courses. All transfer credit must have been completed with grades of "B" or better and be approved by the program or college concerned. These credits should be evaluated and transferred by the time of enrollment.

Graduate Certificate Seeking Students
Students who are non-degree seeking, but who are admitted to a Graduate Certificate may register during the same registration period as Degree-Seeking Students. Some of the coursework taken as a Graduate Certificate Seeking Student may be applied to a degree program (check with the Program Director). For more information on Graduate Certificates, refer to the Graduate Certificate listing in the Academic Area section of the Catalog.

Non-Degree Seeking Students
Students may enroll as Non-Degree Seeking Students and may enter classes on a space available basis by obtaining appropriate approval from the degree-granting college or academic unit in which the courses are offered. Non-Degree Seeking Students must meet all prerequisites for courses in which they wish to enroll. Certain classes are available only to degree seeking majors
and may not be available for Non-Degree Seeking Students. Should a student be accepted to a graduate program, no more than 12 hours of USF credit earned as a Non-Degree seeking student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. After completing 12 hours in a specific degree program it is recommended that a Non-Degree Seeking Student apply for admission and be accepted to the degree program to continue taking courses in the program.

The College of Business Administration will approve Non-Degree Seeking Student registration in graduate courses for Transient Students only (degree seeking at other accredited institutions)

**Full-time Status**
For Academic purposes, a student taking 9 or more hours toward the degree in a semester will be classified as full-time. The normal graduate load in the fall and spring terms is 9-12 hours per semester.

**Part-time Status**
For Financial Aid purposes, a student taking 5 to 8 hours is considered half-time. Students taking 1 to 4 hours are considered less than half-time. For Veteran's Benefits, students must take 7 to 8 hours for 3/4 time rate; 5 to 6 hours for 1/2 time rate; and 1 to 4 for 1/4 time rate.

**Change of Degree Program**
Students who wish to change from one degree program to another (at the same level) must obtain a Graduate Change of Program Application from the Office of the Registrar or their college advising office. The new department will consider the Change of Program request as a new application. Change of degree must be approved by the Dean of the Colleges involved, and Dean of Graduate Studies. The new department may elect to accept all, some, or none of the graduate courses previously taken by the student. Students wishing to change levels (e.g. Master's to Doctoral) must reapply to the University.

**Off-Campus Courses and Programs**
Graduate courses and programs are offered at locations other than the Tampa, Sarasota, St. Petersburg, and Lakeland campuses. Information on course enrollment procedures for off-campus courses and programs may be obtained from the college in which the courses or programs are offered.

**The Transient Student (Formerly Traveling Scholar) Program**
The SUS Transient Student program enables a graduate student to take advantage of resources available on other SUS campuses. A Transient Student, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institutions, receives a waiver of admission requirements and application fee at the host institution and a guarantee of acceptance of earned credits by the sponsoring institution.

A Transient Student must be recommended by a graduate advisor, who will initiate a visiting arrangement with the appropriate faculty of the host institution. For more information, contact the Registrar’s Office at 974-2000 or on the web at http://www.usf.edu.
Access to Student Records

Student records in University custody are generally held confidential and are released only to those persons and under those circumstances authorized by law. Pursuant to the provisions of the Federal Family Educational Rights and Privacy Act ("FERPA") and Florida Statute, students have the rights to:

1. Inspect and review their education records
2. Privacy in their education records
3. Challenge the accuracy of their education records
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202
   and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.

Copies of the University's student records policy, USF Rule 6C4-2.0021, may be obtained from The Office of the Registrar, SVC 1034 or Office of the General Council, ADM 254.

Pursuant to requirements of FERPA, the following types of information, designated by law as "directory information," may be released by the University of South Florida:

Student:
1. name
2. local and permanent addresses
3. telephone listings
4. major field of study
5. participation in officially recognized activities and sports
6. weight and height of members of athletic teams
7. dates of attendance
8. full/part-time status
9. degrees and awards received
10. the most recent educational agency or institution attended, and other similar information.

The University Directory, published annually, contains the following information: Student name, local and permanent address, telephone number, classification, and major field of study. The Directory and other listings of "directory information" are circulated in the course of University business and, thus, are accessible to members of the public, as well as to other students and members of the faculty and staff.

Students must inform the USF Registrar's Office in writing (on forms available for that purpose), if they wish Directory information to be withheld. The Refusal Notification must be received no later than the end of the second week of classes in the Fall Semester to avoid inclusion in the University Directory. Such requests will be effective until the student has not been enrolled at USF for three (3) consecutive terms.

Official Academic Record

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students should contact this office or Graduate Studies with questions concerning academic policies and procedures pertaining to their current registration or academic record.

Transcripts of a student's USF academic record may be requested through the Office of the Registrar and can be released only upon authorization by the student. Transcripts cannot be released for students who have outstanding financial obligations to the University. Students
requesting transcripts may do so in person or by writing to the Office of the Registrar. Include full name, social security number, and date of birth, and indicate names and addresses to whom transcripts are to be sent. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades. There is a charge for transcripts (refer to page 34 for more information.)

Course Attendance

Students may cancel their registration before the first day of the semester by notifying the Office of the Registrar in writing prior to the first day of classes. If fees already have been paid, students may request a full refund of fees from the Office of Finance & Accounting.

In order to ensure their enrollment, students are required to attend the first class meeting of all regularly scheduled classes at the 5000 level and below, for which they have registered prior to the first day of classes. Students not in attendance at the first class meeting may be dropped from the course. Students who are unable to attend the first class meeting because of circumstances beyond their control must inform the instructor or department, preferably in writing. For structured courses, 6000 and above, this first-day requirement will be set by the College/Campus Dean. Check individual colleges and campuses for specific information. To avoid fee liability and academic penalty, the student is responsible for ensuring that he/she has officially dropped or been dropped from all undesired courses by the end of the 5th day of classes.

After students have completed their registrations, they may add courses until the add deadline specified in the Academic Calendar. See the appropriate semester University Class Schedule for detailed instructions and dates.

Drop/Add/Withdraw

A student may drop any course during the first five days of classes. No entry of the courses will appear on any permanent records and a full refund of fees paid by the student is made for any course dropped within this period.

A student also may drop courses between the second and ninth week of the semester (except for summer sessions; see University Class Schedule for dates). Registration fees must be paid for the courses and the academic record will reflect a “W” grade for any dropped courses. Courses dropped after the ninth week (see Academic Calendar for deadline) will result in an automatic “F” grade.

Students may withdraw from all classes, without academic penalty, during the first nine weeks of any term (except for summer sessions; see University Class Schedule for dates) by submitting a completed Withdrawal Form to the office of the Registrar. No entry is made on the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals are posted on the academic record with a grade of “W.” A grade of “F” will be assigned automatically for all course work from which a student withdraws after the end of the ninth week of the term. All refunds must be requested in writing from the Office of Finance and Accounting. See “Refund of Fees” (page 24) under Tuition and Fees for more information.

Auditing of Courses

Students may audit graduate-level courses with the instructor’s approval; however, auditors are not allowed to take exams, nor will any grades or credit be given. The student’s status for that class is an audit and her/his presence in the classroom is as a listener.

A student must register to audit courses during the late registration period. (No audit registrations are processed during regular registration periods.) Fees for audit are the same as for credit, except that out-of-state tuition is not charged. See University Class Schedule for detailed instructions and dates.
ACADEMIC POLICIES AND PROCEDURES

General Information
Graduate Studies and the degree programs have established certain academic requirements that must be met before a degree is granted. While advisors, directors, department chairpersons, and deans are available to help the student meet these requirements, it is ultimately the responsibility
of the student to be acquainted with all regulations, and be responsible for completing requirements. If requirements for graduation have not been satisfied, the degree will not be granted. The information presented here represents the University Academic Policies. Colleges and departments may have additional requirements. Check with your College Graduate Coordinator or your Department Program Director for more information.

Courses, programs, and requirements described in the Catalog may be suspended, deleted, restricted, supplemented, or changed at any time at the sole discretion of the University and the Board of Regents. USF operates on a semester system. Semesters begin in August and January, with summer sessions beginning in May and June.

Graduate Catalog

A student is entitled to one USF Graduate Catalog per issue. The Catalog is also available on the web at http://www.grad.usf.edu. Each Catalog is considered to be published and in effect for the academic year(s) printed on the title page. Prospective students may also obtain general University information, application, and degree program contacts by requesting the Application and Guide to Graduate Programs from the Office of Graduate Admissions. In order to graduate, students must meet all graduation requirements specified in the USF Catalog of their choice. Students who are continuously enrolled may select any one Catalog published during their continuous enrollment. Continuous enrollment is defined as completing a minimum of two terms per academic year at USF, with grades assigned for courses taken, through time of graduation (refer to Continuous Enrollment on page 40 for more information.) Students cannot choose a USF Catalog published prior to or during an academic year in which they did not complete at least two terms.

A graduate student who is dropped from his/her degree seeking program for not having been enrolled for a minimum of 2 graduate hours (colleges and programs may require more) for at least one term (Fall, Spring, Summer) during the past 12 months must apply for reinstatement of admission by contacting the Graduate Program Director of his/her degree-seeking program by the program's admission deadline date. Such students will be permitted to choose a catalog from the point of readmission forward, but may not select a catalog prior to their readmission by the following Board of Regents policy:

Graduation requirements in effect at the receiving SUS institution at the time a student enrolls at a Florida public institution of higher learning shall apply to that student in the same manner that graduation requirements apply to its native students, provided the student has had continuous enrollment as defined in the SUS institution's catalog.

The University does not commit itself to offer all the courses, programs, and majors listed in this Catalog unless there is sufficient demand. Some programs or courses may be suspended or restricted because of an insufficient number of faculty or lack of facilities. If the student cannot meet all of the graduation requirements specified in the Catalog of choice as a result of decisions and changes made by the University, appropriate substitutions will be determined by the program to ensure that the student is not penalized. University policies are subject to change and apply to all students regardless of Catalog choice.

Grades and Academic Standards

In Good Standing

Graduate students must maintain an overall average of 3.0 ("B") in all courses, and meet the requirements of the degree program to be considered "in good standing." No grade below "C"
will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average (GPA).

Any student who is not in good standing at the end of a semester shall be on probation. Notification of probation shall be made to the student in writing by the department, with a copy to the College Dean and the Dean of Graduate Studies. At the end of the probationary semester, the Department shall recommend to the College Dean, in writing, one of three alternatives: (1) removal of probation, (2) continued probation, (3) dismissal from degree program. The Dean of Graduate Studies, upon recommendation by the Dean of the student's college, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two consecutive semesters of probationary status will result in termination.

Graduate Grading System
Academic achievement is based on the following grading system:

- **A** Superior performance
- **B** Average performance
- **C** Below Average performance
- **D, F** Failure
- **FF** Failure due to academic dishonesty
- **I** Incomplete
- **M** Missing grade/no grade reported by instructor
- **N** Audit
- **S, U** Satisfactory, Unsatisfactory
- **W** Drop or Withdrawal from courses without penalty
- **Z** Continuing registration in multi-semester internship or Thesis/Dissertation courses

Grade Point Average
The University uses a four-point grading system to compute grade point averages (GPA) \( A = 4 \) quality points, \( B = 3, C = 2, D = 1, F = 0 \). The GPA is computed by dividing the total number of quality points by the total number of graded (A-F) hours completed. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. **Graduate students are not eligible for grade forgiveness.** All grades earned, regardless of course level, will be posted on the transcript. If a student retakes a course, both grades will be used in the determination of the GPA.

Satisfactory (S) / Unsatisfactory (U)
Graduate students may not take courses in the major on an S/U (satisfactory/unsatisfactory) basis unless courses are specifically designated S/U in the Catalog. Students may take courses outside of the major on a S/U basis with prior approval of the course professor, major professor or advisor, and the Dean of the College in which the student is seeking a degree. The student may apply a maximum of 6 hours of such credit (excluding those courses for which S/U is designated in the Catalog) toward a master's degree.

Directed Research, Thesis, and Dissertation courses are designated as variable credit and are graded on an S/U basis only. Before a student begins work under Directed Research, a written agreement must be completed between the student and the professor concerned, setting forth in detail the requirements of the course.

Incomplete (I)
An "I" grade may be awarded at the discretion of the instructor only when the student is otherwise earning a passing grade and only if the incomplete is due to the omission or fault of the student. Students are advised to initiate a written contract for incomplete grades. The contract
should include a description of the work to be completed, the date by which the work is to be submitted and should be approved and signed by the course instructor. Until removed, the “I” is not computed in the grade point average. If not removed after two terms (including summer), “I” grades will be converted to “IF” or “IU” (Incomplete-Fail/Unsatisfactory). Students should not re-register for courses in which they are only completing requirements to change an “I” grade. If a student wants to audit a course for review in order to complete course requirements, full fees must be paid. All “I” grades must be removed before graduation. Graduation will not be certified until all courses have been completed. No grade changes will be processed after the student has graduated.

“M” and “Z” grades
In the event a grade is lost or not submitted, the transcript will reflect a default grade of “M” (missing). This will be treated the same as an “I” grade. All “M” grades must be removed before graduation. Graduation will not be certified if the student has outstanding “M” grades. The “Z” grade indicates continuing registration in multi-semester internship or thesis/dissertation courses. Upon satisfactory completion of multi-semester internship or thesis/dissertation, the final grade assigned will be an “S.”

Transfer Credit
Transfer of graduate credit from a regionally accredited school is limited to 8 semester hours or 3 courses. All transfer credit must have been completed with grades of “B” or better and be approved by the program or college concerned. These credits should be evaluated and transferred by the time of enrollment.

Application for Degree
Each student who plans to complete degree requirements by the end of a term must submit an Application for Degree by the deadline noted in the Academic Calendar for the term in which graduation is expected. The student must file an application whether or not student is participating in the commencement ceremony. The application form is available in the Office of the Registrar or at the College. Completed forms should be turned in to the College.

Commencement
Graduate students may not participate in commencement exercises until all requirements for the degree sought have been fulfilled.

Diplomas
Diplomas are mailed to the student’s permanent address approximately 6 weeks after commencement. Students with a change of address need to fill out a change of address form at the Registrar’s office. Questions regarding diplomas and degree certification should be directed to the Registrar’s office at 974-2000.

Transcripts
Transcripts of a student’s USF academic record may be requested by the student through the Office of the Registrar. A student’s academic record can only be released upon authorization of the student. Students requesting transcripts may do so in person or by writing to the Office of the Registrar. By law, the request must include the student’s signature and date. In order for transcripts to be issued, the student must have no financial obligations to the University. Transcripts are normally mailed/ready for pick-up within two working days after the request is received. USF Transcript Request forms are available in the following offices: Tampa Campus Registrar’s Office, regional campuses’ Records & Registration offices, and all campuses’ Cashier’s offices.
Letter requests must include: (1) date of request and student's current address; (2) student ID number and full name; (3) name and complete address of recipient; and (4) number of copies and (5) special instructions, such as, "hold for degree statement" or "hold for current term grades," and the student's signature. Degree statements are posted approximately five weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

To order transcripts by mail, send payment ($5.00 per copy, check or money order only) and Request Form or letter to:

Transcript Clerk, Registrar's Office
USF- SVC 1034
4202 E. Fowler Avenue
Tampa, FL 33620-6950

To order transcript in person, hand-carry payment (check, money order or cash) and Request Form or letter to a USF Cashier's Office at any of the following Campus locations:

Tampa - ADM 131
St. Petersburg - Davis Hall, Rm. 129
Sarasota - Lobby, Building D
Lakeland (Drop Box) - Bldg. E, Rm. 2127

Transcript request forms are available in these locations. Students may complete the request process in one stop at the cashier's offices.

Exclusions
Members or former members of the faculty who hold or have held the rank of Assistant, Associate, or Full Professor are not eligible to be granted degrees from USF, except upon prior authorization of Graduate Studies and the Provost.

In cases where a member of the immediate family of a faculty member is enrolled in a graduate degree program, the faculty member may not serve on any advisory or examination committee or be involved in any determination of academic or financial status of that individual.

ACADEMIC CONDUCT POLICIES

Appeals
Degree-seeking graduate students may appeal actions regarding their academic status or academic performance. Reports of actions and appeals will be maintained in the student’s permanent file. For all appeals, the student must appeal in writing first to the department through the Major Professor or Graduate Program Director, then to the College Dean or representative, and then to the Dean of Graduate Studies, if necessary.
Grievance Procedures

To assure students the right to redress of academic grievances, any student may file a question or complaint in Graduate Studies, in person or in writing. The Graduate Dean may refer the complaint to the student's department or college. Students should always attempt to resolve their problems and exhaust all remedies at the department or college level before bringing an official grievance to Graduate Studies. Students may also seek the assistance of the Student Advocate located in ADM 151, 974-5533.

Student Conduct

Members of the University community support high standards of individual conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions for academic and personal freedom within the University. USF reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community.

Disciplinary procedures are followed when a student fails to exercise responsibility in an acceptable manner or commits an offense as outlined in the Student Conduct Code. These are described in detail in the Student Handbook, available at the Marshall Center Information Desk.

Standards and Discipline

Any action or the aiding, abetting, or inciting of any action which is in violation of the University's Student Conduct Code and/or University Policy constitutes an offense for which students may be subject up to and including suspension. Students are responsible for compliance with all public laws as well as University Rules and Regulations. Students should also familiarize themselves with the University's Administrative Policies as defined in the Student Handbook. These include: the Equal Opportunity Policy; the Policy on Sexual Harassment; the policy on Sexual Assault and Battery; the Alcohol Beverage Policy; the Policy on the Illegal Use of Controlled Substances and Alcohol; and the Policy on Hazing.

Any act that will constitute a violation of public laws at the University will establish cause for additional legal action.

Due Process Rights

University disciplinary procedures afford students all rights of due process required for disciplinary matters. These include: being informed in writing of the formal charges; being given three working days to respond to the charges; having the choice of asking for an informal hearing; being provided a copy of the hearing procedures; being permitted to present evidence; and being given the opportunity to cross-examine any witness.

Academic Dishonesty

Students are awarded degrees in recognition of successful completion of course work in their chosen fields of study. Each individual is expected to earn his or her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable and will be punishable, according to the seriousness of the offense, in conformity with established rules and procedures.

PLAGIARISM is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by
paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, or the form, structure, style of a secondary source must be attributed to its author by means of the appropriate citation procedure. Only widely known facts and thoughts and observations original to the student do not require citations. Citations may be made in footnotes or within the body of the text. Plagiarism, also, consists of passing off as one's own, segments or the total of another person's work.

**CHEATING** is defined as:

1. the unauthorized granting or receiving of aid during the prescribed period of a course graded exercise: students may not consult written materials such as notes or books, may not look at the paper of another student, nor consult orally with any other student taking the same test;
2. asking another person to take an examination in his or her place;
3. taking an examination for or in place of another student;
4. stealing visual concepts, such as drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc., and presenting them as one's own (e.g., drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc.);
5. stealing, borrowing, buying, or disseminating tests, answer keys, or other examination material except as officially authorized, research papers, creative papers, speeches, etc.;
6. stealing or copying of computer programs and presenting them as one's own. Such stealing includes the use of another student's program, as obtained from the magnetic media, or interactive terminals or from cards, print-outs etc.

**Punishments Guidelines**

Punishments for Academic Dishonesty will depend on the seriousness of the offense and may include receipt of an "F" or "O" grade on the subject paper, lab report, etc., an "FF" in the course, suspension or expulsion from the University. The University drop policies and forgiveness policy shall be suspended for a student accused of plagiarism or cheating or both.

**Disruption of Academic Process**

**Definition:**

the act or words of a student or students in a classroom or teaching environment which in the reasonable estimation of a faculty member: (1) Direct attention from the academic matters at hand, such as noisy distractions; persistent,

**Punishment Guidelines**

Punishment for disruption of academic process will depend on the seriousness of the disruption and will range from a private verbal reprimand to dismissal from class with a final grade of "W", if the student is passing the course, as shown on the student record. If the student is not passing a grade of "F" will be shown on the student record.
Due Process Procedures

(1) Alleged violations of academic dishonesty or alleged disruptions of academic process will be handled initially by the instructor, who will discuss the incident with the student. It must be noted that the Faculty Senate considers the traditional relationship between student and faculty member as the primary means of settling disputes that may arise. If the instructor observes alleged dishonesty occurring during an examination, he/she should, with discretion, notify the student of the fact before the student leaves the examination. In all cases, the instructor must attempt to schedule a meeting with the student to discuss the alleged dishonesty or disruptions.

(2) After the discussion, if the student and instructor have reached a mutual agreement as to the solution, the instructor shall file a statement with the chairperson of the department responsible for the course outlining the facts of the incident and the agreed-upon solution signed by both the instructor and the student. If no solution is reached, the matter should be referred to the Chairperson of the department for attempt at resolution. If no resolution is reached, the matter should be referred to the Dean of the College for attempt at resolution. If no solution is reached, the dean shall appoint a student/faculty committee consisting of an equal number of disrespectful or abusive interruptions of lecture, exam or academic discussions or; (2) Present a danger to the health, safety, or well being of the faculty member or students.

(3) Academic Committee Pre-hearing Procedure. Within a reasonable time following the failure of the student/instructor/dean meetings to bring about a solution, and in no event later than three (3) months after such failure, the dean shall cause formal charges to be filed with the appointed academic committee. The charged student shall be provided with a written notice of charges, in sufficient detail to prepare for the hearing, no less than three (3) days before the hearing, except in cases of emergency as specified below.

(4) Hearings. 
   (a) Emergency Hearings. An expedited hearing may be held before an academic administrator appointed by the dean or by the appointed academic committee in cases which involve the safety, health or welfare of any student or staff member.
   (b) Non-Emergency Hearings before the Academic Committee -- General Principles.
      1) The burden of proof shall be on the complainant. The standard of proof for decision shall be "substantial evidence," that is, whether it is reasonable to conclude from the evidence submitted that the student did commit the violations for which he/she has been charged and shall not be the strict criminal law standard of proof beyond a reasonable doubt.
      2) The proceedings of all hearings shall be recorded.
      3) The student may inspect the evidence which will be presented against him/her.
      4) The student may present evidence on his/her own behalf.
      5) The student may hear and question adverse witnesses.
      6) The student will not be forced to present testimony that would be self-incriminating.
      7) The student may have an advisor of his choice present, however, the role of such a person is as an advisor to the student only. The advisor may speak to and consult with the student, but may not serve as the
student's advocate, question witnesses or otherwise participate in the proceedings.

8) The decision of the academic committee or appointed academic administrator shall be based solely on the evidence presented at the hearing.

9) The decision of the academic committee or appointed academic administrator, including findings of fact and a determination of penalty or sanction if any, shall be presented to the student in writing within a reasonable period of time following the hearing.

10) The student's enrollment status will remain unchanged pending final decision, except in cases of emergency, as described above. If the issue remains open at the end of the semester, the instructor shall give the student an "I" grade in the course until all issues are resolved.

11) All hearings shall be closed unless specifically requested otherwise in writing by the charged student prior to the hearing.

5) Failure to Appear: If a student against whom charges have been made fails to appear, the academic committee or academic administrator may proceed in his/her absence.

6) Hearing on Appeal: The charged student may appeal the decision of the academic committee or appointed academic administrator to the Dean of Graduate Studies within thirty (30) working days of decision. The record of the initial hearing may be considered on appeal and the student is entitled access to the record when appealing. The decision of the Dean of Graduate Studies is final.

Equal Opportunity Complaint Procedure

Equal Opportunity Affairs
4202 E. Fowler Avenue, ADM 274
Tampa, FL 33620
(813) 974-4373
(813) 974-1510 (TDD)
WebAddress: http://usfweb.usf.edu/eoa/

Assistant Vice President: Edouard Piou

The University of South Florida is committed to the principles of Equal Educational and Employment Opportunities without regard to race, color, marital status, sex, religion, national origin, disability or age, as provided by law and in accordance with the University's respect for personal dignity.

A student or employee who believes that he or she has not been treated in accordance with the University's Equal Educational and Employment Opportunity Policy or its Policy on Sexual Harassment may file an Equal Opportunity Complaint. Additional information about these procedures may be obtained from the Office of Equal Opportunity Affairs, ADM 281, or by calling 974-4373.

It is prohibited for any administrator, supervisor, or other employee of USF to take any retaliatory action against an individual who, in good faith, has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under provisions of applicable law.
GRADUATE DEGREE REQUIREMENTS

The following sections describe the University requirements established by Graduate Studies for the Master’s and Doctoral degrees. However, individual programs and colleges may establish additional or more stringent requirements. Generally, these additional requirements are set out in the descriptions for each program. **Students must see their program advisor for a complete listing of degree requirements. Students are responsible for being aware of all requirements for their degree.**

Enrollment Requirements

Continuous Enrollment
Continuous enrollment is defined as completing a minimum of two terms per academic year at USF, with grades assigned for courses taken, through time of graduation. All degree-seeking students, excluding those admitted to candidacy, **must be enrolled for a minimum of 2 hours of graduate credit (colleges and programs may require more)** for at least one term (Fall, Spring, Summer) during the previous 12 months or they will be dropped from their degree program. A graduate student who has not been in attendance at least one semester during the past 12 months must apply for re-instatement of admission by contacting the Graduate Program Director of his/her degree-seeking program by the program’s admission deadline date. Students wishing to reapply to the University will be subject to the admission criteria currently in effect.

Thesis/Dissertation Hours
A student who has completed the required course work and continues to occupy space, to use university facilities or staff, and to receive faculty supervision, but who has not submitted a thesis/dissertation, shall **register for a minimum of 2 hours of thesis/dissertation each semester.** The exact number of hours will be determined by the individual program/department and will be predicated on the staff and facilities needed to support the student. Although minimum and maximum hours required for thesis/dissertation will be decided by the individual program/department, many students find it necessary to take more than the required minimum hours.

Students who have completed all requirements except the comprehensive exams or completion of "I" and/or "Z" grades will be allowed use of University Library facilities for one semester, with written approval from the Dean of Graduate Studies. During the term in which students take the comprehensive exams, they must enroll for a minimum of 2 hours of graduate credit. If the exam is taken between semesters, the student must enroll for a minimum of 2 hours of graduate credit in the semester before or following the exam.

Mandatory Enrollment for Doctoral Students Admitted to Candidacy
Students in a doctoral program who have completed all degree requirements, with the exception of dissertation, are required to accumulate a minimum of 6 credits in the previous 12 months. If it is necessary for a doctoral student to use faculty time, or the facilities of the University, including the library and the Office of Graduate Studies, the student must be enrolled. Any exception to this policy must be approved in advance through the Department/College and Graduate Studies. Doctoral students must be enrolled for a minimum of 2 dissertation hours during the semester of graduation. Students not enrolled for the minimum requirement will not be certified for graduation.
Leave of Absence (LOA)

If a student is unable to meet the mandatory enrollment requirement and to make continuous progress on the thesis or dissertation due to an unavoidable situation, the student should request a leave of absence in advance. The request should specify the reasons for the leave, as well as the duration. Students need to be enrolled the first semester after the leave expires. The LOA must be approved by the student’s Major Professor, Graduate Program Director, Dean of the College, and the Dean of Graduate Studies. If the leave is granted, the time absent does not count against the student’s time limit to obtain the degree.

Graduate Faculty

The University of South Florida defines its graduate faculty to consist of all regular faculty appointed at the Assistant, Associate, or Professor rank, who hold a terminal degree or equivalent in their discipline. Individual academic units have the discretion to establish additional requirements.

Dual Degree

A student may wish to pursue two degrees simultaneously. Upon approval by the Dean of Graduate Studies, a prescribed number of courses (generally no more than 9 hours of core or basic courses) required for one degree may be applied to another degree that requires the same courses, without repetition or alternative courses.

The Master’s Degree

A minimum of 30 hours is required for a master’s degree, at least 16 hours of which must be at the 6000 level. At least 20 hours must be in formal, regularly scheduled course work, 10 of which must be at the 6000 level.

Up to 6 hours of 4000-level courses may be taken as part of a planned degree program. Additional graduate credit may be earned in 4000-level courses only if specifically approved by the appropriate College Dean. Students enrolled in undergraduate courses as part of a planned degree program are expected to demonstrate a superior level of performance. Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean.

Time Limitations

For students beginning their degree program at USF in Fall 1996 or thereafter, all credits (including transfer credits) used to satisfy the requirements for the master’s degree must be taken and completed within seven (7) academic years prior to the date of graduation.

For students beginning their degree program at USF before Fall 1996, all work applicable to the degree must be completed (or transferred in) within seven (7) academic years from the time a student is admitted into the program.

Major Professor

Upon mutual recommendation from the student and professor concerned, an advisor or major professor will be appointed during the student’s first term by the program director/departmental chairperson. The student and major professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program, signed by the student and professor, should be maintained in the student’s department file.
Thesis Committee

Students working toward a thesis degree will have the benefit of a committee of members of the graduate faculty, appointed by the Program Director and approved by the Dean of Graduate Studies. The committee will approve the course of study for the student and plan for research, supervise the research and any comprehensive qualifying exams, and read and approve the thesis for content and format.

Composition: The committee will consist of the major professor and at least two other members of the department or area of interest in which the degree is sought. (Colleges and Programs may require additional committee members.)

Member Definition:
All graduate faculty as defined by the university and the college/department and approved by their department and college are assumed by Graduate Studies as qualified to be a member of and/or supervise a Masters Thesis committee. Persons desiring to serve on a Masters committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the department, college, and graduate studies for each committee.

Approval: Notification of the committee appointment will be sent to the Dean of the College and to the Dean of Graduate Studies. Colleges and departments may institute additional requirements for membership on Masters Thesis Committees.

Masters Comprehensive Examination

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit to measure student competency in the major area. Students must be enrolled for a minimum of 2 hours of graduate credit during the semester when the comprehensive examination is taken. If the exam is taken between semesters, the student must be enrolled for a minimum of 2 hours of graduate credit in the semester before or following the exam.

Thesis

Format

If a thesis is required, it must conform to the format guidelines of the University. Refer to the Format Requirements in the Thesis and Dissertation Handbook, available on the web at http://www.grad.usf.edu. Six to eight weeks before the end of the semester in which you intend to graduate, you MUST have portions of the draft copy reviewed and approved for format by the Manuscript Consultant.

Students should make an appointment for the format check of a draft of their thesis prior to the posted deadline each semester. Deadlines for submitting the draft and final manuscript are included in the Academic Calendar of this catalog. All dates listed in the calendar should be verified with Graduate Studies during the applicable semester. Deadlines are also posted every semester and are available from the Graduate Program Director in the student's department. Failure to submit the manuscript for a format check may result in delaying graduation. Note: Colleges may have earlier deadlines. Check with the College for information.
Graduate Studies / Degree Requirements - Ph.D.

Call 974-5220 to make an appointment to review your draft. All Students are required to bring the following items for the format review:

* all front pages: Certificate of Approval, title page, Table of Contents, any “List of” (Tables, Figures, Illustrations, Abbreviations) pages, abstract title page, and abstract text including the abstract signature section

* at least two chapters of the thesis/dissertation (select chapters that contain the greatest number of headings and subheadings)

* a representative sample of tables/figures/illustrations (if applicable)

* a representative sample of the references (required)

* appendix materials (if applicable)

During semester in which graduation is to occur, in addition to the format check, students must also:

1. be enrolled in at least 2 thesis hours
2. turn in the final copy of the thesis to Graduate Studies by the posted deadline
3. apply for graduation by the posted deadline

Final Submission Guidelines
MA/MS/MFA/EDS Candidates:
The items listed below must all be submitted together. The Manuscript Consultant will review the Final Copy Submission procedures and provide the student with the necessary forms at the Format Check. If there are any changes to the following, students will be notified at that time. Manuscripts that are missing any item will not be accepted.

1. Two final thesis copies (unbound) on 100% rag, fiber or cotton paper
   Each and every page of both copies must be on 100% rag, fiber, or cotton watermarked paper. (Exception: photo images may be made on “Sublimination” paper if necessary)

2. Two copies of the Certificate of Approval (one for each copy of dissertation)
   Each copy must have original signatures IN BLACK INK ONLY of all committee members.

3. Two copies of the Abstract Approval Page (one for each copy of the dissertation)
   Each copy must have the original signature(s) IN BLACK INK ONLY of the (co)major professor(s).

4. Both copies will be submitted in one box: the box should be big enough so the copies fit inside but do not shift around; separate the two copies with a sheet of colored paper. Tape a photocopy of the Title Page of the thesis on top of the box (do not attach the Certificate of Approval).

5. A receipt for binding from the Library. Pay binding fees at the Library Circulation Desk. They will accept cash or check (make checks payable to USF). Cost (at time of catalog publication): $7.18 per copy plus tax. Thicker documents will cost more.

6. One completed Library Subject Classification form.
7. One completed Thesis Final Approval Form.
8. College of Engineering students only: the signed Dean’s Approval form, provided by the College of Engineering. Check with the College regarding deadlines.
Submission of the Thesis Between Semesters
If students elect to submit the final copy of a thesis after the submission deadline, but on or before the first day of the upcoming semester, they will not be required to register for 2 thesis credit hours for graduation in the upcoming semester, provided they were registered for such in the preceding semester. The student will be considered a graduate of the upcoming semester, and must therefore apply for graduation in that semester. If final copies are submitted after the first class day, the student must enroll in 2 thesis hours and apply for graduation for that semester. Submission of drafts between semesters does not guarantee timely service.

Only after the thesis has been approved by Graduate Studies for filing in the University Library can the student be certified for the degree. A binding fee will be charged the student at the time the thesis is submitted. Check with the Department, College or Graduate Studies for submission deadlines and fee information.

Thesis Change of Grade
Graduate Studies will notify the registrar of the change in thesis grade from “Z” to “S” once the final manuscript has been received, reviewed and certified for permanent filing in the University Library. Copies of the “Final Approval Form” will be distributed to the Student and College. Copies of the Change of Grade memo will be sent to each College.

Exchange of Thesis for Non-thesis Credit
If a student changes from thesis to non-thesis during a semester and is currently enrolled in thesis credit, the current thesis credits may be exchanged without academic penalty if a Graduate School Petition is filed with Graduate Studies not later than the last day of drop/add.

If a student enrolled in a thesis required program has taken thesis credits but elects to change to non-thesis track or program, the accumulated thesis credits may not be exchanged or converted to another non-structured credit. The thesis hours will remain on the transcript and will retain the “Z” grade.

The Educational Specialist Degree (Ed.S.)
Refer to the College of Education section for information.

The Doctoral Degree (Ph.D., Ed.D.)
The degree of Doctor of Philosophy (Ph.D.) is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit, the completion of courses, or the acquiring of a number of terms of residency. The length of residency and the requirements below are minimums; departments/programs may elect to establish more rigorous requirements. The degree will be granted after the student has shown proficiency and distinctive achievement in a specified field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literary skill in a dissertation. A minimum of 90 hours beyond the baccalaureate degree is required. The Doctor of Education Degree (Ed.D.) is offered only by the College of Education; refer to the College of Education section of the catalog for more information.

Time Limitations
For students admitted to their doctoral program in Fall 1996 or thereafter, all course work taken after admission to the Ph.D. program and before admission to candidacy must be completed within 5 academic years for those entering with a Master’s degree and within 7 academic years for those entering without a Master’s degree. If admitted to candidacy on August 30, 1996 or thereafter, the candidate has 5 academic years to obtain the doctoral degree. For students admitted to their doctoral
candidate has 5 academic years to obtain the doctoral degree. For students admitted to their doctoral program before Fall 1996 or admitted to candidacy before Aug. 30, 1996, see the 1995-96 Graduate Catalog for previous time limit rules.

**Doctoral Committee**

An advisor will be appointed by the department or program for each student during the first semester of residency. The advisor will advise on any specific subject matter deficiencies and assist in the choice of a major professor and area of research. As soon as an area of research is determined and a major professor is chosen, a Doctoral Committee will be approved for the student. The department will request approval of the Doctoral Committee from the Dean of the College and the Dean of Graduate Studies.

The Doctoral Committee will approve the student's course of study and plan for research, supervise the research, grade the written comprehensive qualifying examination, read and approve the dissertation, and conduct the dissertation defense.

**Composition:** The Doctoral Committee will consist of at least four members, three of whom must come from the academic area in which the major work for the degree will be done.

**Member Definition:**

All graduate faculty as defined by the university and the college/department and approved by their department and college are assumed by Graduate Studies as qualified to be a member of and/or supervise a Doctoral committee. Persons desiring to serve on a Doctoral committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the Department, College, and Graduate Studies for each committee.

**Approval:** To insure uniformity of excellence across the colleges, the directors of Ph.D. Dissertation Committees will need to submit a current curriculum vitae with the committee appointment form to Graduate Studies for approval by the Graduate Dean. This approval is in addition to the approval from their department chairman and college dean or their designates. Colleges and departments may institute additional requirements for membership on Doctoral Committees.

**Tools of Research**

*Tools of Research has been eliminated as a University Requirement.*

**Academic Residency**

*Students must be enrolled in a doctoral program for a minimum of 3 years beyond the baccalaureate degree. At least one academic year, defined as minimum of 9 hours per semester for 2 semesters (18 hours total), must be completed on a USF campus. Deviations from this rule must be recommended by the student's doctoral committee and approved by the Dean of Graduate Studies. Doctoral students must take a minimum of 90 hours beyond the baccalaureate degree to earn a Ph.D. degree.*

**Doctoral Comprehensive Qualifying Examination**

*As soon as the substantial majority of the course work is completed, the student must pass a written comprehensive qualifying examination covering the subject matter in the major and related fields. This examination may be supplemented by an oral examination. Students must be enrolled for a minimum of 2 hours of graduate credit in their discipline at the time they take the comprehensive examinations. If the exam is taken between semesters, students must be enrolled*
Admission to Candidacy
Students may not be admitted to candidacy until a Doctoral Committee has been appointed, and the Committee has certified that the student has successfully completed the comprehensive qualifying examination and demonstrated the qualifications necessary to successfully complete requirements for the degree. The Admission to Candidacy form will be approved by the Dean of the College and forwarded to the Dean of Graduate Studies for final approval. Following approval of the Admission to Candidacy form by Graduate Studies, the student may enroll in Dissertation credits.

If during a semester a student completes the requirements for admission to candidacy, the student may exchange directed/individual research credits for dissertation credits if a Graduate Studies Petition is filed with Graduate Studies.

Mandatory Enrollment for Doctoral Candidates/Leave of Absence
Refer to Enrollment Policies on page 40-41.

Dissertation
Each department determines the total number of dissertation hours required for completion of the degree. For enrollment requirements, refer to p. 40-41.

Format
The dissertation must conform to the format guidelines of the University. Refer to the Format Requirements in the Thesis and Dissertation Handbook, available on the web at http://www.grad.usf.edu. Six to eight weeks before the end of the semester in which a student intends to graduate, he/she MUST have portions of the draft copy reviewed and approved for format by the Manuscript Consultant.

Students should make an appointment for the format check of a draft of their dissertation by the posted deadline each semester. Deadlines for submitting the draft and final manuscript are included in the Academic Calendar of this catalog. All dates listed in the calendar should be verified with Graduate Studies during the applicable semester. Deadlines are also posted every semester and are available from the graduate program director in the student's department. Failure to submit the manuscript for a format check may result in delaying graduation. Note: Colleges may have earlier deadlines. Check with the college for information.

Call 974-5220 to make an appointment to review your draft. All Students are required to bring the following items for the format review:

* all front pages: Certificate of Approval, title page, Table of Contents, any “List of” (Tables, Figures, Illustrations, Abbreviations) pages, abstract title page, and abstract text including the abstract signature section

* at least two chapters of the thesis/dissertation (select chapters that contain the greatest number of headings and subheadings)

* a representative sample of tables/figures/illustrations (if applicable)

* a representative sample of the references (required)

* appendix materials (if applicable)
During semester in which graduation is to occur, in addition to the format check, students must also:

1. be enrolled in at least 2 dissertation hours
2. turn in the final copy of the dissertation to Graduate Studies by the posted deadline
3. Apply for graduation by the posted deadline

Final Oral Examination (Dissertation Defense)
Request for Approval to Hold the Exam

After the Doctoral Committee has determined that the final draft of the dissertation is suitable for presentation, the Committee will request the scheduling and announcement of the Dissertation Defense Examination. All Committee members must agree to the examination date and must be in attendance at the exam either in person or via speakerphone. The request form will be submitted via the department chairperson to the College Dean and the Dean of Graduate Studies for approval. The request must be received in the Graduate Studies Office at least 2 weeks prior to the scheduled examination in order to process the request and meet state statute requirements. The dissertation defense examination must be held at least 4 weeks before the last day of classes; therefore, the request for defense of the dissertation must be received in Graduate Studies at least 6 weeks before the last day of classes of the semester. The deadlines for these dates are listed in the Academic Calendar of this catalog, as well as are posted each semester. Verify all dates with Graduate Studies.

Chairman of the Examination Committee
The Chair of the Examination Committee is expected to be a senior and distinguished scholar from outside the department, nominated by the Major Professor, approved by the Dean of Graduate Studies with the concurrence of the Department Chair and the Dean of the College to serve as the representative of Graduate Studies. If the chair is from another institution, this individual should have the equivalent qualifications necessary to chair a dissertation in the subject area at the University of South Florida.

Final Submission Guidelines
Ph.D./Ed.D. Candidates:
The items listed below must all be submitted together. The Manuscript Consultant will review the Final Copy Submission procedures and provide the student any necessary forms at the Format Check. If there are any changes to the following, students will be notified at that time. Manuscripts that are missing any item will not be accepted.

1. Two final dissertation copies (unbound) on 100% rag, fiber or cotton paper
   Each and every page of both copies must be on 100% rag, fiber, or cotton watermarked paper.
2. Two copies of the Certificate of Approval (one for each copy of dissertation)
   Each copy must have original signatures IN BLACK INK ONLY of all committee members.
3. Two copies of the Abstract Approval Page (one for each copy of the dissertation)
   Each copy must have the original signature(s) IN BLACK INK ONLY of the (co-)major professor(s).
4. Both copies will be submitted in two boxes (one diss. in each box); the box should be big enough so the copy fits inside but doesn’t shift around; on top of each box tape a photocopy of the Title Page of the dissertation (do not attach the Certificate of Approval).
5. **A receipt for binding** from the Library
   Pay binding fees at the Library Circulation Desk. They will accept cash or check (make checks payable to USF). Cost (at time of publication): $7.18 per copy plus tax. Thicker documents will cost more.

6. **A money order for $50** made out to UMI for microfilming
   Remember to sign your money order, if applicable. Personal checks will **not** be accepted. **If copyrighting, include an additional $45 certified check or money order.**

7. **One photocopy of the following:** the Dissertation Title Page, Abstract Title page, abstract Text, and signed Abstract approval for UMI’s Dissertation Abstracts International (to be submitted with your UMI agreement form)

8. **Five completed forms:** (1) UMI Agreement form, (2) NORC Survey, (3) Library Subject Classification form, (4) Hooding Information form, and (5) Dissertation Final Approval Form (forms will be given to students at the Format Check)

9. You must be registered for at least 2 dissertation hours for the semester of graduation.
10. You must have **applied** for graduation through your college by the posted deadline.
11. College of Engineering students **only:** the **signed Dean’s Approval form**, provided by the College of Engineering.

**Submission Between Semesters**
If students elect to submit a dissertation after the submission deadline, but on or before the first day of the upcoming semester, they will not be required to register for 2 dissertation credit hours for graduation in the upcoming semester, provided they were registered for such in the preceding semester. The student will be considered a graduate of the upcoming semester, and must therefore apply for graduation in that semester. If final copies are submitted after the first class day, the student must both enroll in 2 dissertation hours and apply for graduation for that semester.

Only after the dissertation has been approved by Graduate Studies for filing in the University Library can the student be certified for the degree. Two copies of the dissertation will then be deposited in the University Library. A microfilm and binding fee will be charged the student at the time the dissertation is submitted. Doctoral students must complete the National Research Council’s Survey of Earned Doctorates when they submit the dissertation.

**Restriction on Release of Publications**
The University recognizes the benefits from collaboration with sponsors on research projects but also recognizes the possibility of conflicts of interest in the disclosure of the results of the collaborations. While the sponsor’s economic interests in the restriction of disclosure should be considered, the University has a primary mission to extend knowledge and disseminate it to the public and the broader academic community.

The University’s “Statement of Policy Regarding Inventions and Works” acknowledges the possible need for delays in publication of sponsored research to protect the sponsor’s interests, but it provides no definite guidelines for the restrictions of publication beyond the statement: “Disclosure delays mutually acceptable to the Inventor, the Vice President for Research, and the sponsor, if any, are authorized in order to allow patent applications to be filed prior to publication, thereby preserving patent rights…”

To protect the University’s primary goal from undue comprise, the University has adopted the following guidelines:
1. The recommendations of sponsors, regarding publication of research results should be considered advisory rather than mandatory.
2. The maximum delay in publication allowed for pre-reviews and patent or copyright application should not exceed three months from the date the thesis/dissertation is filed with Graduate Studies.
application should not exceed three months from the date the thesis/dissertation is filed with Graduate Studies.

3. Students should not be delayed in the final defense of their dissertations/theses by agreements involving publication delays.


Dissertation Change of Grade
Graduate Studies will notify the registrar of the change in dissertation grade from "Z" to "S" once the final manuscript has been received, reviewed and certified for permanent filing in the University Library. Copies of the "Final Approval Form" will be distributed to the student and college. Copies of the Change of Grade memo will be sent to each College.

Binding (For Theses and Dissertations)
At the close of the semester, one copy of the dissertation will be sent to the USF Library for binding. For master's students, both copies are sent to the library—one is placed on the shelves for normal circulation, the other kept in Special Collections. For doctoral students, the second copy goes to UMI, Ann Arbor, Michigan, for microfilming, and is then returned to USF's Special Collections.

Electronic Submission of Theses and Dissertations
For information on submitting your thesis or dissertation electronically, contact the Manuscript Consultant at 974-5220.
GRADUATE CERTIFICATES

4202 E. Fowler Avenue, SVC 1072
Tampa, Fl 33620
(813) 974-2996
e-mail address: kiersty@admin.usf.edu
WebAddress: http://www.usf.edu

Office of Graduate Certificates
Director: Lagretta Lenkar
Program Assistant: Kiersty Cummings

The areas of study for graduate certificates are created within the mission of graduate education. Students will be awarded certificates upon completion of specific course work, which has been approved by the Graduate Council. The Graduate Certificate is not defined as a degree by Graduate Studies; rather, it is a focused collection of courses that, when completed, affords the student some record of distinct academic accomplishment in a given discipline or set of related disciplines. Moreover, the Graduate Certificate is not viewed as a guaranteed means of entry into a graduate degree program. While the courses comprising a graduate certificate may be used as evidence in support of a student’s application for admission to a graduate degree program, the Certificate itself is not considered to be a prerequisite.

How Graduate Certificates Can Serve You:
* Educational experience at the graduate level
* Short-term, focused formats to develop skills
* Concentration in a field of study
* Flexible admissions and convenient scheduling
* Professional growth and career advancement

Student Eligibility and Admission Criteria
Students must apply and be accepted into the Graduate Certificate area of study to be eligible to receive a certificate. For the most current criteria and eligibility information, contact the Office of Graduate Certificates. At time of publication, the prerequisites and general criteria of eligibility for admission to any graduate certificate area of study include:

1. An earned baccalaureate degree or its equivalent from an accredited college or university is required.
2. Each graduate area of study sets the requirements for admission, including minimum grade point average, standardized test scores, and other similar criteria as part of the application.
3. Graduate students enrolled in a graduate program of study leading to a degree, who wish to pursue a simultaneous graduate certificate within Graduate Studies must inform the coordinator of the graduate certificate area of study, and follow the procedures as outlined by the Graduate Certificate Office, and the Graduate Studies Office of their intent to seek the Graduate Certificate. No other application is necessary.

4. Non-Degree Seeking graduate students who wish to pursue approved graduate certificates must apply for admission to such areas of study before one-half of the required credits are completed.

5. Certificate-Seeking graduate students not currently enrolled in a degree-granting graduate program will be admitted into a separate classification within the University, and will be classified as "Certificate Graduate Students". This separate classification will permit the university to monitor statistical and enrollment data for certificate areas of study, and will allow inclusion of such efforts in the annual reports and academic planning. The Graduate Certificate Office will note successful completion of a certificate on the student's transcript upon completion.

6. Students pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing".

7. Certificate-seeking graduate students must meet all prerequisites for courses in which they wish to enroll. Should a certificate-seeking graduate student subsequently apply and be accepted to a degree-granting graduate program, no more than 12 hours of USF credit earned as a certificate-seeking graduate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. Certificate-seeking graduate students interested in pursuing graduate degrees are advised to apply for admission and be accepted to the degree program after completing 12 hours in a specific degree-granting program.

**Graduate Certificates: Listing by College**

An alphabetical listing may be found on page 9. Certificates may be added or deleted from this list. For information about what is currently being offered, or to suggest a new certificate, and for details about each of the Graduate Certificates listed here, call 974-2996 or refer to the web at [http://www.usf.edu](http://www.usf.edu).

**Arts and Sciences**
- Addictions and Substance Abuse Counseling*
- Comparative Literary Studies
- Creative Writing
- Development Ethics and Policy
- Environmental Policy and Management*
- Family & Children's Practice, Advanced Certificate
- Geriatric Social Work/Clinical Gerontology
- Gerontology
- Gerontology, Advanced Graduate Certificate
Hydrogeology
Marriage and Family Therapy
Medical Ethics
Nonprofit Management
Political Science
Public Management
Teaching Composition
Teaching English as a Second Language
Women's Studies

**College of Education**
College Teaching
Diversity
Florida Adapted PE Endorsement
Instructional Design
Instructional Network Specialist
Literacy in Elementary Programs
Multimedia Training Systems
Web Design and Development

**College of Engineering**
Interdisciplinary Transportation*
Solid and Hazardous Waste Management*
Total Quality Management*
Wireless Engineering

**College of Fine Arts**
Expressive Arts*
Music Performance
Piano Pedagogy
Piano Performance and Pedagogy

**College of Nursing**
Nurse Practitioner, Post-Master’s

**College of Public Health**
Infection Control

**Graduate Studies / Architecture and Community Design**
Community Design and Development

**Louis de la Parte Florida Mental Health Institute (FMHI)**
Planning, Evaluation, and Accountability*

*Interdisciplinary certificates*
COLLEGE OF ARTS AND SCIENCES

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2503
e-mail address: maclean@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu

Dean: S. David Stamps
Associate Dean: Mark Amen

Mission Statement:

The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essences of education are a capacity for the appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a love of learning, and an understanding of the means that scholars have used in their search for beauty and order in the natural world.

The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs. The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our university.

It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace the disciplines that strive to make immediate use of knowledge in the service of social goals as well as the disciplines whose discoveries contribute to the fund of basic information that is the stepping stone of applied knowledge.
**Degrees Offered:**

**Master of Arts**

<table>
<thead>
<tr>
<th>Category</th>
<th>Subjects</th>
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<tbody>
<tr>
<td>American Studies</td>
<td>Anthropology, Chemistry</td>
</tr>
<tr>
<td>Applied Linguistics</td>
<td>Anthropology, Chemistry</td>
</tr>
<tr>
<td>Communication</td>
<td>Anthropology, Criminology</td>
</tr>
<tr>
<td>French</td>
<td>Anthropology, Geography</td>
</tr>
<tr>
<td>History</td>
<td>Anthropology, Library &amp; Information Science</td>
</tr>
<tr>
<td>Mass Communications</td>
<td>Anthropology, Mathematics</td>
</tr>
<tr>
<td>Political Science</td>
<td>Anthropology, Psychology</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>Anthropology, Sociology</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>Anthropology, Spanish</td>
</tr>
</tbody>
</table>

Rehabilitation Counseling - 5 yr program

Program for Secondary School Teachers

The College of Arts and Sciences, in cooperation with the College of Education, offers the M.A. degree in English, Foreign Languages, Mathematics, Science, Social Science, and School Psychology. Because requirements apply in both colleges, the student will have an advisor in each college. The planned courses must be approved by both advisors. For requirements, consult the College of Education portion of this Catalog.

Additionally, the College of Arts and Sciences, in cooperation with the College of Education offers a Ph.D. in Curriculum and Instruction/Interdisciplinary Education with a Specialization in Second Language Acquisition/Teaching and Instructional Technology. For degree information, contact the College of Education.

**Program for Junior College Teachers**

The M.A. degree is available with specializations in:

<table>
<thead>
<tr>
<th>Category</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Chemistry, English, French, Geography</td>
</tr>
<tr>
<td>Geology</td>
<td>History, Mathematics, Physics, Political Science</td>
</tr>
<tr>
<td>Sociology</td>
<td>Spanish, Speech Communication</td>
</tr>
</tbody>
</table>

For requirements, consult the College of Education portion of this Catalog.

**Master of Science**

<table>
<thead>
<tr>
<th>Category</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audiology</td>
<td>Aural Rehabilitation</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Geology</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Physics</td>
</tr>
<tr>
<td>Zoology</td>
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</tbody>
</table>

**Master of Liberal Arts**

**Master of Public Administration**

**Master of Social Work**

**Doctor of Philosophy**

<table>
<thead>
<tr>
<th>Category</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audiology</td>
<td>Aging Studies, Communication</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Criminology, Mathematics</td>
</tr>
<tr>
<td>Geology</td>
<td>Marine Science</td>
</tr>
<tr>
<td>Psychology</td>
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Financial Aid
For further information regarding admission and the availability of fellowships and assistantships, a candidate should write to the appropriate departmental chairperson, College of Arts and Sciences, University of South Florida, Tampa, Florida 33620.

Thesis Enrollment
Upon successful completion of all M.A./M.S. degree requirements except for thesis, Arts and Sciences graduate students must enroll in a minimum of 2 credit hours of Thesis each semester (except Summers) until the completion of the master’s degree.

Dissertation Enrollment
Doctoral students who have been admitted to candidacy, are required to accumulate a minimum of 6 credit hours of Dissertation during each previous 12-month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.
Aging Studies Ph.D. (Interdisciplinary)

4202 E. Fowler Avenue, MHC 2700
Tampa, FL 33620
(813) 974-4453
e-mail address: jskinner@chuma.cas.usf.edu
WebAddress: http://www.cas.usf.edu/gerontology/Ph_D_program.html

Chairperson: William Haley
Program Director: John Skinner


Degrees Offered: Ph.D.

The Interdisciplinary Ph.D. in Aging Studies is the first of its kind in the United States, and to the best of our knowledge, the world. What makes this program unique is the combined emphasis on providing a broad based foundation in the interdisciplinary aspects of aging with a focus on developing in-depth expertise in a research area. The program draws on the expertise of faculty from all colleges, departments, and centers at the University of South Florida to provide students with exposure to other disciplines and the different approaches to scientific and scholarly inquiry.

The Ph.D. in Aging Studies is augmented by a university-wide Institute on Aging, which is the organizational focal point for interdisciplinary research, educational, clinical and community service activities for faculty and students. Students in the Ph.D. program will become active members of the Institute on Aging and will participate in research projects, study groups, seminars, conferences and many other activities sponsored by the Institute. The program is organizationally housed in the Department of Gerontology in the College of Arts and Sciences; however, the program is governed by an interdisciplinary committee of faculty. Therefore, students can develop a research program which focuses on their particular interests.

The Ph.D. in Aging Studies is a research oriented program designed to train future leaders in the field of aging. The program admits students who show exceptional promise to become strong academic, public sector, and corporate researchers. Students should expect to enroll in the program full time (9 credits in fall, 9 credits in spring, and 6 credits in summer). First year students are generally supported with at $12,000 fellowship and tuition waiver. Fellowship or assistantship support and tuition waivers are generally available during subsequent years of doctoral training.
Additional Admission Requirements

1. Deadline: Application must be received by February 1 for Fall consideration.
2. GPA of 3.25 and a combined verbal and quantitative GRE score of 1100 with each sub-score being 500 or higher.
3. Applicants from countries where English is not the language of instruction must also submit a score of at least 600 on the Test of English as a Foreign Language (TOEFL).
4. In addition, students must submit their best example of a single-authored writing sample, and a summary of their career goals and past preparation for a research career.
5. Three letters of recommendation from individuals familiar with the student’s work and/or research are also required.

To obtain an application kit contact:
Dr. John H. Skinner, Director
Ph.D. in Aging Studies Program
Department of Gerontology
University of South Florida
4202 E. Fowler Avenue--SOC 107
Tampa, FL 33620-8100

Program Requirements
There are 4 three-credit courses that constitute the core interdisciplinary requirements for the program and 2 courses that fulfill the Tools of Research requirements. The requirements are enrollment in Psychological Aging: Interdisciplinary Perspectives, Biomedical Aging, Population Aging, and Social and Health Aspects of Aging. Each core course is taught from an interdisciplinary perspective with faculty from different fields addressing issues from their disciplinary perspectives. Students must also enroll in one research methods and one statistical/analytical methods course.

Students are required to enroll in the Aging Studies Proseminar (2 credits) each fall and spring semester in years two, three, and four. The proseminars investigate different topics each semester and are led by faculty from different disciplines as well as guest speakers.

Students entering the program may be advised by the Advisory Committee to take additional courses to prepare them for careers as researchers and scholars in their area of specialization within Aging Studies. Students entering with master’s degrees in relevant disciplines may not need to take additional courses.

Students develop individualized courses of study, allowing specialization in a wide variety of content areas and research methods. Supervised research experience is available from a number of faculty with diverse research expertise.

Faculty Organization
The interdisciplinary nature of the program is exemplified by the number of core faculty credentialed to teach in the program and the range of academic departments they represent. Over forty faculty from ten colleges and research centers have been identified as the core faculty in the program. They represent over sixteen academic departments. Additional faculty are expected to augment the core faculty bringing increased diversity and interdisciplinary expertise to the program.
Course Descriptions:

GEY 7902 DIRECTED INDIVIDUAL STUDY IN AGING STUDIES (1-9) An advanced reading program of selected topics related to Interdisciplinary avenues of inquiry under the supervision of an aging studies faculty member. A written contract describing the requirements must be signed by the student and faculty member prior to registration.

GEY 7911 DIRECTED RESEARCH IN AGING STUDIES (1-3) Research on selected topics in aging studies under the direct supervision of a member of the graduate faculty in aging studies.

GEY 7936 PROSEMINAR IN AGING STUDIES (1-2) Readings and discussion of current topics, books, articles, and papers in aging studies. Examination of theory and research issues in the field of gerontology. Students develop their dissertation research topics, preliminary review of literature, and present their dissertation research proposals.

GEY 7980 DISSERTATION & DOCTORAL (1-12) (PR: Completion of Qualifying Examination, Admission to Candidacy)
Anthropology (ANT)

4202 E. Fowler Avenue, SOC 107
Tampa, Fl 33620
(813) 974-2138

e-mail address: droberso@chumal.cas.usf.edu

WebAddress: http://www.cas.usf.edu/anthropology/index/html

Chairperson: Linda Whiteford
Program Director: Susan Greenbaum


Degrees Offered: M.A., Ph.D.

The M.A. program, initiated in 1974, was the first in the country to focus on career training for the practice of Applied Anthropology. Specialty courses are available in medical anthropology, urban issues and policies, indigenous rights, cultural diversity, educational policy, migration and immigrant adjustment, and public archaeology (including cultural resource management). There is a regional emphasis on North American and the Caribbean. With faculty advice, students develop their own course of study in applied anthropology: archaeology students pursue a more structured curriculum. Each student performs a full-time internship for one semester, involving an applied research project jointly defined by the student, the faculty adviser and a professional supervisor in an agency where the internship will be conducted. Graduates are employed in administration, program evaluation, planning, research, and teaching. The deadline for receipt of M.A. application materials is January 15 (no Spring admission).

The Ph.D. in Applied Anthropology is the first such program in the country. Its primary goal is to train students in the theories, methods, skills and techniques of applied anthropology so they can conduct research, teach and practice applied anthropology in both academic and non-academic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Collaborative agreements with the colleges of Public Health, Medicine, Nursing, and Education, along with the Florida Mental Health Institute, Center for Urban Transportation Research, Area Center on Aging, and the Latin American and Caribbean Studies Center provide students with access to a wide range of faculty experience and expertise. The deadline for receipt of all doctoral application materials is January 15.
The Center for Applied Community Research fosters applied research and action projects. The center is concerned with applying anthropological knowledge, theory, method, and perspective to problems of contemporary society. Illustrative areas of activity include human service needs assessment, program planning and evaluation, social and environmental impact assessment, and public policy analysis.

M.A. in Applied Anthropology (APA)

Additional Admission Requirements

1. Deadlines: Applications for the M.A. program must be received by January 15 for Fall and Spring admissions.
2. Undergraduate GPA of at least 3.2 and a GRE score (verbal + quantitative) of at least 1100.
3. B.A. in Anthropology, or related discipline. If B.A. is not in Anthropology, applicants must demonstrate they have passed undergraduate Anthropology courses in the four subfields of Anthropology (Cultural, Physical, Archaeology, Linguistics), or they must satisfy these deficiencies prior to enrollment in master's level courses.

Program Requirements

1. Total required hours (40)
2. Comprehensive exams upon completion of proseminars.
3. Core requirements:
   a. Cultural Core (ANT 6490) and Archeology (ANT 6186) for archeology students
   b. ANT 6186, 6196, 6197, 6198, and 6588 required of all Public Archaeology students
   c. ANT 6706, 6766 required of all Non-Archaeology students, plus four (4) elective graduate seminars in Anthropology.
   d. One graduate level statistics course.
   e. One graduate level course outside the Anthropology Department.
4. Internship, one semester full time, after completion of proseminar exams and course requirements, 4 credit hours minimum.
5. Thesis (6 credit hours), at least 2 credit hours per semester until thesis is accepted.

Ph.D. in Applied Anthropology (APA)

Additional Admission Requirements

1. Deadlines: Ph.D. Application materials must be received by January 15.
2. Undergraduate GPA of at least 3.2 and a GRE score of at least 1100.
3. M.A. in Anthropology. If M.A. is not in Anthropology, applicants must demonstrate they have taken and passed undergraduate Anthropology courses in the four subfields of Anthropology (Cultural, Physical, Archaeology, Linguistics), or they must satisfy these deficiencies prior to enrollment in doctoral level courses.
4. Admission is dependent upon availability of appropriate faculty and facilities. Please review departmental description above before applying.

Program Requirements

1. Total required hours: 60 hours beyond the M.A.
2. Course requirements:
Upon completion of any deficiencies: ANT 7932, followed by Proseminar (ANT 7933).

Proseminar. Must receive a grade of "B" or better; satisfies preliminary examinations in four subfields.

Five additional required courses within the Department of Anthropology (ANT 6706; 6766; 7703; 7704; 7760 [when the topic is quantitative methods])

Four elective graduate level Anthropology courses.

Tools of research
a. Advanced quantitative methods (ANT 7760).

b. Two additional skills area; e.g., foreign languages, computer analysis, qualitative research methods.

External specialization; minimum of three graduate level courses taken outside the Department of Anthropology, with consent of advisor; students with M.A. degrees in disciplines other than Anthropology may, at the discretion of the Advisor and Supervisory Committee, use the M.A. as proof of the external specialization.

Qualifying examination covering area of specialization within applied anthropology and external specialization.

Two-semester internship or dissertation research (ANT 7945, minimum of 6 credit hours).

Dissertation, based on research or internship (ANT 7980, minimum of 12 credit hours). Students are required to accumulate a minimum of 6 credits in dissertation hours during each 12 month period (e.g., Fall, Spring, Summer) until the degree is granted.

Course Descriptions:

ANG 5901 DIRECTED READING (1-4) Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration. S/U. (PR: CI)

ANG 5910 INDIVIDUAL RESEARCH (2-4) Individual guidance in selected research project. Contract required prior to registration. S/U. (PR: CI)

ANG 5937a QUANTITATIVE METHODS IN APPLIED ANTIIROFOLOGY (3) Basic statistical analysis and use of statistical computing packages. All M.A. students are expected to enroll in and satisfactorily complete this course. Exceptions are possible for students who have completed equivalent courses in statistics prior to enrollment in the program. (PR: GS in Anthropology)

ANG 5937b GRADUATE PROSEMINAR (3) An integrated examination of selected topics that draws from the subfields of Anthropology. Students are required to earn a minimum grade of B in the course. Successful completion of the Proseminar fulfills the comprehensive examination requirement. (PR: CI)

ANG 6115 SEMINAR IN ARCHAEOLOGY (3) An advanced critical survey of archaeology emphasizing contributions to applied anthropology. (PR: GS in Anthropology)

ANG 6196 ARCHAEOLOGICAL THEORY AND CURRENT ISSUES (3) Methodology and theory in archaeology, analysis, interpretation of data. (PR: GS in Anthropology)
ANG 6197 CULTURAL RESOURCE MANAGEMENT (3) Current topical issues in Public Archaeology. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6198 REGIONAL PROBLEMS IN METHODS OF PUBLIC ARCHAEOLOGY (3) Contemporary problems in Public Archaeology in the context of a specific region. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6447 SELECTED TOPICS IN URBAN ANTHROPOLOGY (3) Current topical issues in Urban Anthropology. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6448 REGIONAL PROBLEMS IN URBAN ANTHROPOLOGY (3) Contemporary problems in Urban Anthropology in the context of a specific region. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6449 SELECTED TOPICS IN MEDICAL ANTHROPOLOGY (3) Current topical issues in Medical Anthropology. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6490 SEMINAR IN CULTURAL ANTHROPOLOGY (3) Core course required of all students. A critical advanced survey of Cultural Anthropology emphasizing contributions to Applied Anthropology. (PR: GS in Anthropology)

ANG 6465 REGIONAL PROBLEMS IN MEDICAL ANTHROPOLOGY (3) Contemporary problems in Medical Anthropology in the context of a specific region. Rpt. to 6 hours as topics vary. Open to non-majors. (PR: GS)

ANG 6511 SEMINAR IN PHYSICAL ANTHROPOLOGY (3) A critical advanced survey of Physical Anthropology emphasizing contributions to Applied Anthropology. (PR: GS in Anthropology)

ANG 6676 SEMINAR IN ANTHROPOLOGICAL LINGUISTICS (3) A critical advanced survey of Anthropological Linguistics emphasizing contributions to Applied Anthropology. (PR: GS in Anthropology)

ANG 6701 CONTEMPORARY APPLIED ANTHROPOLOGY (3) A critical survey of Applied Anthropology as practiced today in the major branches of Anthropology; open to non-majors. (PR: GS)

ANG 6766 RESEARCH METHODS IN APPLIED ANTHROPOLOGY (3) Research design, data collection, and data analysis for Applied Anthropologists. Emphasis will be on non-quantitative research methods. Open to non-majors. (PR: GS)

ANG 6905 INDEPENDENT STUDY (1-19 var.) Independent study in which students must have a contract with an instructor. Rpt. S/U.

ANG 6915 DIRECTED RESEARCH (INTERNSHIP) (1-19 Var.) S/U. (PR: GR. ML)

ANG 6971 THESIS: MASTER'S (1-19 Var.) Rpt.
ANG 7703 HISTORY AND THEORY OF APPLIED ANTHROPOLOGY (3) The history and theoretical development of Applied Anthropology is discussed in the context of the overall development of Anthropology as a discipline and profession. (PR: CI)

ANG 7704 LEGAL AND ETHICAL ASPECTS OF APPLIED ANTHROPOLOGY (3) Development and nature of professional ethics in Applied Anthropology, including legal and quasi-legal regulations pertaining to human subjects research, cultural resources, historic preservation, privacy, and freedom of information. (PR: GS in Anthropology)

ANG 7750 RESEARCH METHODS IN APPLIED ANTHROPOLOGY (3) Critical review of specific approaches to the development, management, and analysis of sociocultural data. Emphasis on qualitative and quantitative applications of field oriented research designs. Rpt. as topics vary. Open to non-majors. (PR: CI)

ANG 7905 DIRECTED INDIVIDUAL STUDY (1-15) An advanced reading program of selected topics in Applied Anthropology under the supervision of an anthropology faculty member. A written contract describing requirements must be signed by the student and faculty member prior to registration. Rpt. S/U. (PR: CI)

ANG 7933 GRADUATE PROSEMINAR (3) An integrated examination of selected topics that draws from the subfields of Anthropology. Students are required to earn a minimum grade of B in the course. Successful completion of the Proseminar fulfills the comprehensive examination requirement. (PR: CI)

ANG 7980 DISSERTATION: DOCTORAL (1-15 Var.) (PR: Admission to Candidacy)

GEY 7980 DISSERTATION AND DOCTORAL (1-12 var) Variable credit, 1-12 hour(s); S/U only
Biology (BIO/BOT/MIC/ZOO)

4202 E. Fowler Avenue, SCA 110
Tampa, Fl 33620
(813) 974-4747
e-mail address: gallaghe@chuma1.cas.usf.edu
WebAddress: http://www.cas.usf.edu/biology

Interim Chairperson: Susan S. Bell
Chairperson (as of 1/1/00): Sydney Pierce
Program Director: Henry R. Mushinsky


Degrees Offered: M.S., Ph.D.

Specializations: Marine Biology; Ecology (Tropical, Populational, Community, Behavioral, Physiological, and Chemical Conservation); Cell and Molecular Biology; Genetics; Physiology (Microbial, Plant, Animal); Microbiology (pathogenic, molecular, and environmental); Neurobiology; and Systematics.

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department's cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department's organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. Senior graduate students have the opportunity to teach in our Liberal Arts curriculum and gain valuable, supervised teaching experience. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.
Program Requirements

Supervisory Committee
The departmental graduate director, or an assigned mentor, functions as the student's advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student's area of interest.

For all master's students, the major professor and at least two additional faculty constitute the student's supervisory committee. The major professor and at least one of the committee members must be from the Biology Department.

For all Ph.D. students the major professor and at least three additional faculty constitute the student's supervisory committee. The major professor and three members must be from the Department of Biology.

Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal. The supervisory committee must be approved by the departmental chairman and the college dean and the Dean of the Office of Graduate Studies. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for 2 hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than 2 graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below “B” in structured courses required by the advisory committee will be dropped from the program.

Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student's research plan. Students may not register in Thesis: Master’s or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master's or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

M.S. in Botany, Microbiology, or Zoology

Additional Admission Requirements
1. **Deadlines:** Application must be completed by **February 1** by applicants who wish to be considered for assistantships. All other applications must be completed by June 1 (fall semester) or October 1 (spring semester).
2. Must have a combined (verbal and quantitative) GRE score of at least 1000.
3. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
4. Accepted by a faculty member
Program Requirements
The M.S. degree requires completion of
1. structured coursework,
2. a research thesis or a review paper, and
3. passing a comprehensive examination.

Thesis
For students enrolled in the thesis program, a minimum of 30 credit hours is required at the 5000-6000 level; 16 hours must be at the 6000 level; 20 of the 30 credit hours must be in formally structured courses, 15 hours of which must be in Biology; 10 of the 20 structured hours must be at the 6000 level. All students in the thesis program must complete the graduate seminar (BSC 6935). A maximum of 10 hours of combined thesis research and seminar may apply toward the degree. Six hours of graduate work done at another institution may be transferred to the master's program, with approval of the supervisory committee. Twelve hours of graduate work completed while a non-degree seeking student at this institution may be transferred to the master’s program, with approval of the supervisory committee.

Non-thesis
For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses, 16 hours must be at the 6000 level; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

A final comprehensive examination is required for all masters students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within 5 years after matriculation.

Ph.D. in Biology
Additional Admission Requirements
1. Deadlines: Application must be completed by February 1 by applicants who wish to be considered for assistantships. All other applications must be completed by June 1 (fall semester) or October 1 (spring semester).
2. Must have a combined (verbal and quantitative) GRE score of at least 1100.
3. Doctoral applicants applying in ecological disciplines are encouraged to take the advanced biology portion of the GRE.
4. Non-native English-speaking applicants must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
5. Accepted by a faculty member.

Program Requirements
The Ph.D. degree requires completion of:
1. structured coursework
2. tools of research
3. qualifying exam and Admission to Candidacy
4. Oral Defense and Dissertation
Coursework
Twenty credit hours are required in structured graduate-level courses, ten of which must be in the Biology Department. Ten hours must be at the 6000 level (unless the student enters the doctoral program with ten hours of 6000 level courses); then the 20 hour requirement could be met with 5000 level courses. Additional courses may be required, depending upon the needs of the student’s program as determined by the supervisory committee. Individuals who receive the M.S. degree from the Department of Biology at USF may waive 10 credits, with the approval of the supervisory committee. Six hours of graduate work done in a master’s program at another institution may be waived from the doctoral program, with approval of the supervisory committee. Twelve hours of graduate work completed while a non-degree seeking student at this institution may be transferred to the doctoral program, with approval of the supervisory committee. A total of 90 credits beyond the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program.

Tools of Research
Doctoral students must show a proficiency in two tools of research (languages, computer programming or other tools acceptable to the Graduate Faculty), and must pass a qualifying examination. This exam may be taken only after the structured hour and tools of research requirements have been completed. The written and the oral portions of this qualifying examination must be taken within four semesters after matriculation, if the student has a master’s degree; six semesters after matriculation, if the student does not have a master’s degree. Any language or other technical skills required by the supervisory committee must be completed prior to the qualifying exam. If the doctoral degree is not awarded within five years after passing the qualifying examination, the examination must be retaken and passed.

Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements and passing the qualifying examination, upon recommendation of the supervisory committee and approval of the Dean of the College and the Dean of the Office of Graduate Studies. Following admission to candidacy, a student must enroll in BSC 7980 when engaged in research, data collection, or writing activities relevant to the doctoral dissertation. Advisors should assign the number of credits in this course in accordance with the six credit hour policy and appropriate to the demands made on faculty, staff, and University facilities, but in no event will the total number of earned dissertation credits be fewer than 16. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Additional Requirements
Any graduate work counted toward fulfilling the requirements for the Ph.D. degree must be completed within 7 years after matriculation. A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student’s general field of research is also required.

COURSE DESCRIPTIONS

BOT 5185C MARINE BOTANY (4) A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec/Lab. (PR: BOT 3373, and PCB 3043 or CI)
BOT 6725C EVOLUTION OF FLOWERING PLANTS (3) A study of the evolution and phylogeny of the Angiosperms; the origin and nature of early angiosperms, "primitive" angiosperms today; evolutionary processes leading to the origin of genera, families and orders, trends of specialization in the angiosperms; phylogenetic analysis, cladistics, traditional approaches, new approaches; readings from the current and historical literature. Lec/Lab. (PR: CI)

BOT 6916 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: CI)

BOT 6971 THESIS: MASTER'S (1-19 Var.) Rpt. (PR: CI)

BSC 5931 SELECTED TOPICS IN BIOLOGY (1-3) RPT. (PR: CI)

BSC 6907 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CI)


BSC 6930 LECTURES IN CONTEMPORARY BIOLOGY (1) This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology. S/U only. (PR: CI)

BSC 6931 DEVELOPMENT AND PHYSIOLOGY SEMINAR (1) A critical examination and discussion of current literature of physiology and development of living organism, including cells. (PR: CI)

BSC 6932 SELECTED TOPICS IN BIOLOGY (1-4) (PR: CI)

BSC 6935 GRADUATE SEMINAR IN BIOLOGY (1) S/U. (PR: CI)

BSC 6936 SCIENTIFIC GRANT WRITING (3) Course provides instruction on becoming a successful grant writer as well as understanding the grant proposal writing and review processes. Responsibilities of the principle investigator for compliance, fiscal matters, and scientific management of the funded grant will also be covered with guest lecturers from the Division of Sponsored Research. (PR: CI)

BSC 6945 GRADUATE INSTRUCTION METHODS (1-3) Special course to be used primarily for the training of teaching assistants. Rpt. to a total of 4 credits per student. (S/U only) (PR: CI)


BSC 7980 DISSERTATION: DOCTORAL (1-19 Var.) (PR: CI)

ENY 5505 AQUATIC ENTOMOLOGY (3) Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec/Lab. (PR: ENY 3004 or CI.)
MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3) A comprehensive survey of pathogenic microbes responsible for disease in man and animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology. (PR: MCB 3030C or CI)

MCB 5815 MEDICAL MYCOLOGY (3) A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists. (PR: MCB 3030C or CI)

MCB 6606 SYMBIOLOGY (3) Consideration of mutualistic and parasitic symbioses between microbes and various animal, plant, and microbial hosts from cellular, biochemical, evolutionary, and ecological perspectives. (PR: CI)

MCB 6919 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CI)

MCB 6930 GRADUATE MICROBIOLOGY SEMINAR (1) A critical examination and discussion of current literature of microbiology. (PR: CI)


PCB 5235 PRINCIPLES OF IMMUNOLOGY (3) Course will emphasize the basic cellular and molecular mechanisms involved in the vertebrate immune system response. Lec. (PR: MCB 3023 or CI)

PCB 5306C LIMNOLOGY (3) An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec. (PR: PCB 3043, CHM 2046, and PHY 2053, or CI)

PCB 5306L LIMNOLOGY (1) Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology. (CR/PR: PCB 5306)

PCB 5415 BEHAVIORAL ECOLOGY (3) An emphasis on the evolutionary mechanisms that influence an organism's behavioral responses to environmental events. The theoretical framework is presented and analyzed. (PR: 4674 or CI)

PCB 5525 MOLECULAR GENETICS (3) Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics. (PR: PCB 3063 or CI)

PCB 5835 NEUROPHYSIOLOGY (3) A comparative analysis of the physicochemical basis and evolution of nervous systems and sensory mechanisms.(PR: PCB 4743C)

PCB 5845C PRINCIPLES OF NEUROSCIENCE (4) Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain. Topics include brain imaging, dementia, and mechanisms of learning/memory. Brain research techniques are also discussed, as are basic neuropathological processes that result in abnormal brain function. (PR: PCB 4743C or CI)

PCB 6107 ADVANCED CELL BIOLOGY (4) Detailed examination of the structure, function and molecular biology of eukaryotic cells. (PR: CI)
PCB 6176C BIOLOGICAL ELECTRON MICROSCOPY (5) Discussion of theory and techniques in electron microscopy. Emphasis on preparation of biological microscope. Lec/Lab. (PR: CI)

PCB 6205 CELL SIGNALING (3) A detailed examination of the cellular, biochemical, and molecular mechanism involved in signal transduction in various eucaryotic organisms with emphasis on reviewing recent experimental evidence. (PR: CI)

PCB 6236 ADVANCED IMMUNOLOGY (4) Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab. (PR: CI)

PCB 6376C PHYSIOLOGICAL ECOLOGY (4) Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism. Lec/Lab. (PR: CI)

PCB 6405 CHEMICAL ECOLOGY (3) A broad introduction to the biochemistry of plant and animal interactions. Emphasis on the roles of secondary metabolites such as alkaloids, flavonoids, and terpenes in the complex animal/plant, animal/plant, and plant/microorganism interactions occurring in natural, terrestrial, and aquatic environments. (PR: CI)

PCB 6426C POPULATION BIOLOGY (3) Introduction to population dynamics with emphasis on the ecological components of growth, competition, and predation. (PR: CI)

PCB 6447 COMMUNITY ECOLOGY (3) In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured. (PR: CI)

PCB 6455 STATISTICAL ECOLOGY (3) Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized. (PR: PCB 6426 or CI)

PCB 6456C BIOMETRY (4) An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis. (PR: CI)

PCB 6458 BIOMETRY II (3) Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab. (PR: PCB 6456C or CI)

PCB 6920 ADVANCES IN CELL AND MOLECULAR BIOLOGY (1) A journal club in which graduate students present and discuss research publications from the preceding twelve months in the fields of molecular and cellular biology. (PR: PCB 6107 or CI)

PCB 6933 SEMINAR IN ECOLOGY (1-3) A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems. This course may be repeated. (PR: CI)
ZOO 5235 PARASITOLOGY (3) Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. (PR: PCB 3023, PCB 3043, or PCB 3063 or CI)

ZOO 5425C HERPETOLOGY (4) Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history, and reproductive behavior. Lec/Lab. Field trip. (PR: ZOO 3323C or CI)

ZOO 5456C ICHTHYOLOGY (4) Evolution, systematics, structure, behavior, physiology, and ecology of fishes. (PR: ZOO 3323C and Senior Standing recommended or CI)

ZOO 5555C MARINE ANIMAL ECOLOGY (4) Investigation of energy, flow, biogeochemical cycles, and community structure in marine environments. Lec/Lab. (PR: PCB 3043 or CI)

ZOO 6455 ADVANCES IN ICHTHYOLOGY (1) This course dicesses current topics in Ichthyology. Readings are taken from the primary literature. The course is restricted to graduate students with a background in Ichthyology. Consent of instructor is required.

ZOO 6907 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CI)

Cell And Molecular Biology - Interdisciplinary Studies

4202 E. Fowler Avenue, SCA 110
Tampa, Fl 33620-5150
(location: BSF 201)
(813) 974-1616
e-mail address: ibs@chuma.cas.usf.edu
WebAddress: http://www.cas.usf.edu/ibs/index.html

Program Director: Mary Jane Saunders


Degrees Offered: Ph.D. in Medical Sciences, Biology or Chemistry with a specialization in Cellular and Molecular Biology

Major Research Areas: Protein structure and function, gene regulation, mechanisms of signal transduction, cancer research, neurochemistry, transgenic models of disease, host-virus interactions, molecular immunology, biosynthetic pathways, and drug development

Course Descriptions:

Because the program of study is an interdisciplinary one, individual curriculum can include graduate courses from the Departments of Biology, Chemistry and Molecular Biology, Medical Microbiology and Immunology, Pharmacology and Therapeutics, and Physiology and Biophysics as well as topic-specific tutorials.
Chemistry (CHA/CHM)

4202 E. Fowler Avenue, CHE 305
Tampa, Fl 33620
(813) 974-2144
e-mail address: zektzer@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu/chemistry/

Chairperson: Michael Zaworotko
Program Director: Andrew Zektzer

Faculty: Jesse S. Binford, Jr., Kirpal Bisht, Robert S. Braman, Louis Carlacci, Steven H. Grossman, Julie Harmon, Milton D. Johnston, Jr., Kyung Woon Jung, Abdul Malik, Leon Mandell, Dean F. Martin, David Merker, Li-June Ming, George R. Newkome, Rebecca M. O'Malley, Jay Palmer, Robert Potter, Joseph A. Stanko, Edward Turos, Jon E. Weinzierl, George R. Wenzinger, Jay H. Worrell, Andrew Zektzer

Degrees Offered: M.A., M.S., Ph.D.


The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 25 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry.

The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry. In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

Additional Admission Requirements
1. B.A. or B.S. in chemistry* with at least one academic year each of general chemistry, organic chemistry, and physical chemistry, and at least one semester each of organic chemistry, inorganic chemistry, and quantitative analysis.
2. Students admitted with deficiencies in any of the required areas, as determined by a series of diagnostic exams (see Program Requirements), must complete prescribed coursework by the end of the first year of graduate study.

3. A minimum of a 3.0 grade point average in last two years of undergraduate chemistry course work.

4. A combined score of 1000 on the quantitative and verbal parts of the GRE.

5. Letters of recommendation from three or more people who know the student's academic background, and

6. a minimum of 550 on the Test of English as a Foreign Language (TOEFL) for applicants whose native language is not English, and

7. a minimum of 50 on the Test of Spoken English (TSE) for such applicants who are also applying for an assistantship.

*Applicants with other degrees who have significant coursework in chemistry will be considered on a case-by-case basis.

Program Requirements
All entering graduate students are required to take a series of diagnostic examinations. These examinations are in the five basic areas of chemistry: physical, organic, inorganic, analytical and biochemistry. The diagnostic exams are administered twice a year—the week prior to Fall semester and the week prior to Spring semester. Students receiving a High-Pass will be allowed to take advanced graduate courses; students receiving a Pass will be required to take and earn a "B" or better in a core course in the area; and students receiving an Unsatisfactory will be required to take remedial work to be determined by the program.

Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for no fewer than 2 hours of research credit each semester, until the student is eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 hours total per semester. A student must be registered for an appropriate load (in no case fewer than 2 hours) in the College for the semester in which all degree requirements are satisfactorily completed. Additional requirements may be imposed. A student who receives three grades below "B" in structured courses will be dropped from the program.

Registration in courses titled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student's research plan. A student who enrolls in courses entitled Thesis but does not submit a thesis or Dissertation but does not submit a dissertation will not be certified for graduation.

Students in a graduate program must be either active or on a leave of absence granted by the College. Students on active status must register for a minimum of 1 hour of graduate level course work each semester.

M.S. Degree in Chemistry

Program Requirements
Each student is required to pass or test out of (see Program Requirements above) three of the five graduate level core courses (3 hours each). Three additional 6000-level lecture courses in chemistry (3 hours each) must also be completed. A minimum of 4 semesters seminar registration and attendance is required.
Thesis  The student must carry out a research project under the direction of a faculty member, and the results of the research shall comprise the M.S. Thesis.

Comprehensive Examination  Upon completion of thesis research and preliminary approval of the thesis by the supervisory committee, the student will undergo an oral examination on the results of the research and related topics.

Requirements for the Non-thesis M.A. Degree
All requirements for the M.S. degree not relating to thesis must be met. A total of 26 hours must be in formally structured Chemistry courses; 16 hours must be at the 6000 level. A review paper on a topic approved by the Supervisory Committee is required.

Ph.D. in Chemistry
Program Requirements
Each student is required to complete a minimum of 18 hours of formal, regularly scheduled course work (i.e., six 3-credit lecture courses). This course work must include at least two areas (one of which is the student’s major area); at least 12 hours must be at the 6000 level. All full-time students must register for 1 hour of CHM 6935 during Fall and Spring terms, attendance is required.

Tools of Research  Proficiency in two of three tools of research must be demonstrated. These include a reading knowledge of the chemical literature in a foreign language (usually French, German or Russian), a working knowledge of the commands and structure of a computer language (usually Fortran, Pascal, or C), and competency in electronic data searching.

Major Comprehensive Examination  Each division of the department has its own requirements that must be passed in the student’s area of specialization. This process should be completed within two (2) years from the end of the student’s first academic year and at least one year before graduation.

Admission to Candidacy
Completion of the foregoing requirements admits the student to candidacy for the Ph.D. The supervisory committee must evaluate the student for admission to candidacy within 6 semesters (not including summer semesters) after matriculation. If the committee does not recommend admission to candidacy by that time, it may dismiss the student or grant a one-semester extension. At the end of the additional semester (the 7th semester of enrollment, excluding summers), the committee must recommend that the student be admitted to candidacy or be dismissed from the program.

Following admission to candidacy, a student in must enroll in CHM 7980 when engaged in research, data collection, or writing activities relevant to the doctoral dissertation. Advisors should assign the number of credits in this course in accordance with the 6-credit-hour policy and appropriate to the demands made on faculty, staff, and University facilities. Students not admitted to candidacy are not eligible to enroll in CHM 7980.

Research  The student, under the supervision of a major professor, must complete an original research project in Chemistry. Enrollment in Directed Research (CHM 7820) and Dissertation (CHM 7980) courses will constitute the major portion of the 90-hour requirement.
Final Dissertation Defense  When the supervisory committee has inspected the final draft (final unbound form; typewritten and ready for duplication, with the exception of possible minor corrections) of the dissertation and found it suitable for presentation, the major professor will complete a form requesting the scheduling and announcement of the final oral examination. The request form will be submitted via the Chemistry Graduate Office to the College Dean and the Dean of the Graduate School at least two weeks prior to the scheduled oral examination.

Course Descriptions

BCH 5045 BIOCHEMISTRY CORE COURSE (3) A survey course for graduate students in Chemistry, Biology, and other appropriate fields. Lec. (PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or GS)

BCH 6066 GENERAL BIOCHEMISTRY I (3) First semester of a rigorous two-semester General Biochemistry course for Chemistry and Biology students whose primary interests are in this field. Lec. (PR: BCH 5045 or CI)

BCH 6067 GENERAL BIOCHEMISTRY II (3) Continuation of BCH 6066. Lec. (PR: BCH 6066)

BCH 6888 COMPUTER APPLICATIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

CHM 5225 INTERMEDIATE ORGANIC CHEMISTRY (3) This course will extend Organic Chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms. (PR: CHM 3211, CHM 3211L, or equiv.)

CHM 5226 INTERMEDIATE ORGANIC CHEMISTRY II (3) An introduction to synthetic organic chemistry for graduate and undergraduates. Lec. Semester II. (PR: CHM 5225 or CI)

CHM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3) Applications of chemical theory to chemical systems. (PR: CHM 4412)

CHM 5452 POLYMER CHEMISTRY (3) Fundamentals of polymer synthesis, structure, properties, and characterization. (PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or GS)

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3) Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course. Lec. (PR: CHM 4411 or CI)

CHM 5931 SELECTED TOPICS IN CHEMISTRY (1-3) The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc. (PR: CI)
CHM 6150 ADVANCED ANALYTICAL CHEMISTRY (3) A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec. (PR: CI)

CHM 6250 ADVANCED ORGANIC CHEMISTRY I: SYNTHESIS (3) Detailed consideration of modern synthetic methods. Lec. (PR: CHM 5225)

CHM 6440 CHEMICAL KINETICS (3) Theory and methods for the study of reaction rates and the elucidation of reaction mechanisms. Lec. (PR: CI)

CHM 6480 QUANTUM CHEMISTRY (3) Introduction to elementary quantum mechanism. Atomic structure and spectra. Lec. (PR: CI)

CHM 6625 CHEMISTRY OF THE LESS FAMILIAR ELEMENTS (3) An integrated treatment of the conceptual and factual aspects of the traditionally less familiar elements, including noblegas elements, unfamiliar non-metals, alkali, and alkaline-earth metals and the transition elements. Lec. (PR: CI)

CHM 6650 STRUCTURAL INORGANIC CHEMISTRY (3) Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereo-chemistry, solution equilibria, kinetics, mechanisms of reactions, and use of physical and chemical methods. Lec. (PR: CHM 5621 or CI)

CHM 6907 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U.

CHM 6935 GRADUATE SEMINARS IN CHEMISTRY (1) Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar. Must be repeated. S/U. (PR: Admission to graduate program in Chemistry)

CHM 6936 CHEMISTRY COLLOQUIUM (1) Frequent (usually weekly) small-group analysis of current developments. Rpt. to a total of 10 hours. S/U. (PR: Admission to graduate program in Chemistry)

CHM 6938 SELECTED TOPICS IN CHEMISTRY (1-3) Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc. (PR: CI)

CHM 6946 GRADUATE INSTRUCTION METHODS (1-4) Special course for the training of teaching assistants. Var. Rpt. to a total of 5 hours. S/U.


CHM 7980 DISSERTATION: DOCTORAL (1-19 Var.) S/U (PR: Admission to Candidacy)
Communication (SPE)

4202 E. Fowler Avenue, CIS 1040
Tampa, Fl 33620
(813) 974-2145
e-mail address
WebAddress: http://www.cas.usf.edu/

Chairperson: Eric Eisenberg
Program Director: David Payne

Faculty: Elizabeth Bell, Arthur P. Bochner, Kenneth N. Cissna, Eric M. Eisenberg, Carolyn Ellis, Jane Jorgenson, Loyd S Pettegrew, Raymond J. Schneider, Fred Steier, Bernard F. Downs, Carol J. Jablonski, Navita C. James, Mark Neumann, David Payne, Gilbert Rodman, Marsha L. Vanderford

Degrees Offered: M.A., Ph.D. - Please contact the Department of Communication for application materials. All applications should be mailed directly to the department.

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

M.A. in Communication

Additional Admission Requirements

1. A 3.2 GPA during last two years of undergraduate work, and a minimum Quantitative/Verbal score of 1000 on the GRE General Test;
2. Three letters of reference from undergraduate professors with whom the candidate has studied during the last two years of the B.A. program;
3. A substantive undergraduate research paper (or other evidence of writing ability) focusing on a topic appropriate to communication;
4. A 3-4 page statement describing the student's background, purpose for attending graduate school, and career goals.
5. No more than 6 hours may be transferred from another institution.

Program Requirements
Core Requirements (6 hours)

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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>COM 6001</td>
<td>3</td>
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<tr>
<td>COM 6935</td>
<td>3</td>
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</tbody>
</table>

Both courses must be taken the first time they are offered after the student is admitted to the graduate program.
Thesis Program (36 hours)
In addition to the 6 hours of core requirements, each student will complete 24 hours of elective coursework, 6 hours of which may consist of a course or courses from other departments within this or other universities, and must have advisor approval. Each student must complete at least 6 hours of thesis credit and submit an approved thesis.

Non-Thesis Program (36 hours)
In addition to the 6 hours of core requirements, 30 hours of elective coursework are required, 9 of which may be taken as a cognate area of study pending advisor approval and an approved plan of study.

Comprehensive Examinations
All students must pass both written and oral comprehensive examinations.

Ph. D. in Communication

Additional Admission Requirements
1. A 3.2 GPA during the last two years of undergraduate study and 3.5 GPA in graduate work.
2. A GRE score normally in excess of 1000 (verbal + quantitative).
3. Three strong letters of recommendation from qualified people familiar with the prospective student’s academic and scholarly potential.
4. A formal statement of purpose or intent which reveals the applicant’s carefully considered and explicit educational and professional objectives.
5. A sample of scholarly writing which shows promise of ability to conduct research and/or write effectively for a scholarly or professional audience.
6. Applicants with no previous graduate work will be expected to exceed the minimum standards and show exceptional potential to become scholars.

Program Requirements
Students are required to take a minimum of 42 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Completion of the Ph.D. program in Communication normally requires a minimum of three years with at least one year in continuous full-time residence. To qualify for graduation from the Ph.D. program in Communication, a student must complete the following:

1. Establish a supervisory faculty committee approved by the Director of Graduate Studies and the Dean of the Office of Graduate Studies.
2. Prepare a Plan of Study approved by the student’s supervisory committee. The Plan of Study expresses the ways in which the student will show evidence of the following:
   (a) expertise in one of the central domains of communication study;
   (b) expertise in the research methodologies needed to carry out original research in the specialized area of concentration and;
   (c) 6 hours of coursework in an area of study outside the department.
3. Pass a written qualifying examination covering the student’s area of specialization and methodological competence by the end of coursework. This examination will be prepared and evaluated by the student’s supervisory committee.
4. Complete and defend a dissertation approved by the students’ dissertation committee which must include at least one member of the graduate faculty outside the Department.

**Course Descriptions**

**COM 5930 TOPICS IN COMMUNICATION STUDIES** (3) Topical issues in communication. Rpt. up to 12 hours as topics vary.

**COM 6001 GRADUATE STUDY IN COMMUNICATION** (3) Required of all M.A. candidates. The aims and methodologies of the graduate discipline of communication: its relationship to the adjacent arts and sciences; bibliographical resources; methods of research; and a brief survey of the historical development of the field with emphasis on current issues in theory, research, and practice.

**COM 6025 HEALTH COMMUNICATION** (3) Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication. (PR: GS)

**COM 6121 ORGANIZATIONAL COMMUNICATION** (3) A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.

**COM 6345 CONTEMPORARY CULTURAL STUDIES** (3) Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning and value in modern culture through the study of communication. (PR: GS)

**COM 6400 COMMUNICATION THEORY** (3) An examination of communication theory through selected reading in the works of major theorists past and present. (PR: COM 6001)

**COM 6605 MEDIA STUDIES** (3) Study of the impact of mass and mediated forms of communication on individuals, groups, societies, and cultures. Several theoretical and critical perspectives are considered. (PR: GS)

**COM 7325 SEMINAR IN COMMUNICATION RESEARCH METHODS** (3) Emphasis on quantitative, qualitative, and historical-critical approaches to communication research. Rpt. up to 12 hours as topics change. (PR: GS)

**COM 7933 SEMINAR IN COMMUNICATION STUDIES** (3) Variable topics course. Rpt. up to 12 hours as topics change. (PR: GS)

**ORI 5930 TOPICS IN PERFORMANCE GENRES** (3) Variable topics course. Rpt. up to 12 hours as topics change.

**ORI 6435 PERFORMANCE AS CULTURAL STUDY** (3) Impact of performance and performance forms as cultural communication. The course examines literary, festive, religious, political and social performance in dialogue with culture. (PR: GS)
ORI 7930 SEMINAR IN PERFORMANCE STUDIES (3) Variable topics course. Rpt. up to 12 hours as topics change. (PR: GS)

SED 6943 GRADUATE INSTRUCTION METHODS (1-4) Special course to be used primarily for the training of teaching assistants. Var. Rpt. to a total of 4 credits. (S/U only)

SPC 5238 TOPICS IN RHETORICAL ANALYSIS (3) Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty. Rpt. up to 12 hours.

SPC 5930 TOPICS IN DISCOURSE (3) Variable topics course. Rpt. up to 12 hours.

SPC 6231 SURVEY OF RHETORICAL THEORY (3) Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

SPC 6236 CONTEMPORARY RHETORICAL THEORY (3) Basic texts in 20th century rhetorical theory. Readings may vary. (PR: GS)

SPC 6391 INTERPERSONAL COMMUNICATION (3) Study of theory and research related to interpersonal communication.

SPC 6545 PERSUASION (3) Study of contemporary theories and research in persuasion.

SPC 6645 RHETORIC IN SOCIETY (3) Examination of ways in which rhetoric reflects and molds social processes, including social integration and/or alienation; social roles and identity construction; institutions and movements; ideology and social change. (PR: GS)

SPC 6682 RHETORICAL CRITICISM (3) The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

SPC 6903 DIRECTED READINGS (1-4) (PR: CC)


SPC 6935 PRO SEMINAR IN COMMUNICATION (3) Required of M.A. Candidates. Reading and discussion of current books, articles, and papers in communication theory and research. (PR: GS)


SPC 7900 DOCTORAL RESEARCH TUTORIAL (1-3) Advanced directed research. (PR: Admitted to doctoral program)

SPC 7930 SEMINAR IN RHETORICAL STUDIES (3) Variable topics course. Rpt. up to 12 hours. (PR: GS)

SPC 7980 DISSERTATION: DOCTORAL (1-19 Var.) Rpt. (PR: Admission to candidacy)
Communication Sciences and Disorders  
(AUD / ARH / AYD / SPP)

4202 E. Fowler Avenue, BEH 255  
Tampa, Fl 33620  
(813) 974-2006  
e-mail address: ott@chumal.cas.usf.edu  
WebAddress: http://www.cas.usf.edu/

Chairperson and Program Director: Arthur M. Guilford


Degrees Offered: M.S., Au.D.

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

The Master of Science and Doctor of Audiology degrees offered through the Department is structured to meet the preparation requirements of the American Speech-Language-Hearing Association for the Certificate of Clinical Competence. In addition to core material, each student may elect to pursue a program of specialization in the areas of Speech-Language Pathology, Audiology, or Aural Rehabilitation (Deaf Education or Hearing Impaired). The Speech-Language Pathology and Audiology programs are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

The Department offers a concentration in Speech-Language-Hearing Sciences at the undergraduate level. This concentration, combined with other requirements, culminates in a Bachelor of Arts degree in Interdisciplinary Social Sciences (ISS).

Additional Admission Requirements

1. Baccalaureate degree in ISS (concentration in Speech-Language-Hearing Sciences) from USF or a degree in Communication Sciences and Disorders from another accredited college or university with appropriate prerequisite coursework.*
2. A score of 1000 or greater for the GRE, and a GPA of 3.0 for the last 2 years of undergraduate course work.
3. Three letters of recommendation and a letter of intent.
4. Demonstration of competency in communication skills as determined by the chairperson or delegate.

*Applicants holding a baccalaureate degree in a discipline other than Communication Sciences and Disorders and whose degree is from an accredited college or university may be admitted to the M.S. programs after completion of appropriate prerequisites. Prerequisite courses will not be credited toward M.S. requirements except with the approval of the department chairperson.

Program Requirements

All majors must complete the following Core Requirements. (8 Credits)

- SPA 5150L (2) (Speech-Language majors only)
- SPA 5132 (2) (Audiology majors only.)
- SPA 5552 (2) SPA 6601 (1) SPA 6805 (3)

Thesis

In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete at least 1 hour of SPA 6910 (Directed Research) and a minimum of 5 hours of SPA 6971 (Thesis) and submit an approved thesis.

Non-thesis

In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete an additional 7 hours of coursework. Of these, at least 3 hours must be from within the department while 3 hours may be selected from another department. A 1-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

M.S. in Speech-Language-Pathology (SPP)

Additional Admission Requirements

Applications will be accepted throughout the year; however, admission decisions will be made only for Fall semester. **Deadline for receipt of application materials is February 1.**

Program Requirements

In addition to general University requirements for the master’s degree, candidates must complete at least 34 hours of regularly scheduled academic coursework at the graduate level. Also, students will enroll in sufficient graduate clinical practicum to meet a minimum of 350 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, at least 250 clock hours must be in the specialization area at the graduate level in which certification is being sought. Also required for graduation are the attainment of a ‘B’ or better in each graduate Speech-Language Pathology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of the National Teacher Examination in the specialty of Speech-
Language Pathology and successful completion of a thesis or non-thesis option. With the department chairperson's approval, a student with an existing bachelor's degree and appropriate prerequisites may plan the degree program from among the following courses. Course selection is based on prescribed content areas within the discipline.

**M.S. in Clinical Audiology (AUD)**

**Program Requirements**

General University requirements for graduate work must be fulfilled, and a minimum of 35 hours of regularly scheduled academic coursework at the graduate level. In addition, students will enroll in sufficient graduate clinical practicum to meet a minimum of 350 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, at least 250 clock hours must be in the specialization area at the graduate level in which certification is being sought.

Also required for graduation are the attainment of a 'B' or better in each graduate Audiology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of the National Teacher Examination in the specialty of Audiology and successful completion of a thesis or non-thesis option. With the department chairperson's approval, a student with a bachelor's degree and appropriate prerequisites may plan a program from among the following. Course selection is based on prescribed content areas within the discipline.

**M.S. in Aural Rehabilitation (ARH) -- (Deaf Education or Hearing Impaired)**

Students interested in certification as Teacher of the Hearing Impaired (Deaf Education) may elect to fulfill all requirements for the Certificate of Clinical Competence in Audiology or in Speech-Language Pathology. If this option is selected, students must meet academic and clinical standards and requirements as outlined above and meet requirements as outlined above and meet requirements as outlined above and meet requirements as follow. Programs for Teachers of the Hearing Impaired (Deaf Education) will be planned from among courses offered by the appropriate teacher preparation areas within the College of Education, and must also include the following:

**SPA 5150 (3)**  **SPA 5150L (2)**  **SPA 5303 (3)**  **SPA 5403 (3)**  **SPA 5408 (3)**  **SPA 5506 (1-8)**  **SPA 5552 (2)**  **SPA 6106 (3)**  **SPA 6232 (3)**  **SPA 6245 (3)**  **SPA 6322 (3)**  **SPA 6401 (3)**  **SPA 6410 (3)**  **SPA 6413 (3)**  **SPA 6415 (3)**  **SPA 6505 (1-9)**  **SPA 6553 (3)**  **SPA 6601 (1)**  **SPA 6805 (3)**  **SPA 6906 (var)**  **SPA 6910 (var) or SPA 6971 (var)**  **SPA 6930 (3)**  **SPA 7931 (3)**  **SPA 5303 (3)**  **SPA 5312 (3)**  **SPA 5328 (3)**  **SPA 5403 (3)**  **SPA 5506 (1-8)**  **SPA 5552 (2)**  **SPA 6305 (3)**  **SPA 6316 (3)**  **SPA 6314 (3)**  **SPA 6322 (3)**  **SPA 6345 (3)**  **SPA 6354 (3)**  **SPA 6401 (3)**  **SPA 6422 (3)**  **SPA 6505 (1-9)**  **SPA 6601 (1)**  **SPA 6805 (2)**  **SPA 6906 (var)**  **SPA 6910 (var) or SPA 6971 (var)**  **SPA 6930 (3)**  **SPA 7931 (3)**  **SPA 5329**  **SPA 5401**  **SPA 5403**  **SPA 5552**  **SPA 6322**  **SPA 6326**  **SPA 6421**  **SPA 6422**  **SPA 6505**  **SPA 6601**  **SPA 6910**  **SPA 6930**  **SPA 6971**  **EEX 6545**  **EDS 6050 or EME 6284 or EME 6426**
Au.D. in Audiology (AYD)
The Au.D. is a four-year post-baccalaureate professional degree. The primary objective is to produce audiologists who are competent to perform the wide array of diagnostic, remedial, and other services associated with the practice of audiology and who meet the new standards as mandated by the Council on Academic Accredidation of the American Speech-Language-Hearing Association.

Program Requirements
General University requirements for graduate work must be fulfilled and a minimum of 90 hours of regularly scheduled academic course work at the graduate level. In addition, students will enroll in sufficient graduate clinical practicum to meet a minimum of 2000 hours of clinical experience to fulfill the requirements of the American Speech-Language-Hearing Association.

Also required for graduation are the attainment of a “B” or better in each graduate Audiology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of a comprehensive clinical oral examination and the National Teacher Examination in the specialty of Audiology, and successful completion of a professional research project. A student with a bachelor’s degree and appropriate prerequisites may enter the four-year post-baccalaureate program. A student with a master’s degree and five years full-time clinical experience, State License in Audiology or the Certificate of Clinical Competence in Audiology (CCC-A) may be admitted into an individualized program of study.

Curriculum for the Doctor of Audiology (Au.D) is currently under development. Students desiring additional information on courses and other program requirements should contact the department directly.

Course Descriptions

SPA 5132 AUDIOLOGY INSTRUMENTATION (2) Calibration, usage, and specific applications of specialized instruments available for dealing with the identification and measurement of hearing disorders. (PR: CI)

SPA 5150 ADVANCED SPEECH SCIENCE (3) Advanced study of the acoustics, production, and perception of normal and disordered speech. (PR: SPA 3011 or equiv., CC)

SPA 5150L SPEECH SCIENCE INSTRUMENTATION (2) May be taken with SPA 5150 or independently. Laboratory exercises in the use of audio recording, acoustic analysis and synthesis instrumentation. (PR: SPA 3117 or equiv., CC)

SPA 5303 ADVANCED: HEARING SCIENCE (3) The study of the physiological acoustics of the auditory periphery; the neuroanatomy and electrophysiology of the central auditory system; and psychoacoustic principles as they relate to clinical audiologic measurement paradigms. (PR: CC)

SPA 5312 PERIPHERAL AND CENTRAL AUDITORY TESTS (4) The study of behavioral and electrophysiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate nonspeech stimuli and those that utilize speech stimuli will be included. (PR: CI)
SPA 5328 AURAL REHABILITATION: ADULTS (3) This course is designed to provide information about and strategies for aural rehabilitation intervention with hearing-impaired adults. Topics covered include: speech reading, auditory training, hearing and assistive listening devices. (PR: CC)

SPA 5403 COMMUNICATION DISORDERS: LANGUAGE (3) Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluations, and treatment of those factors that hinder or interrupt normal language acquisition or function. (PR: CI)

SPA 5408 LANGUAGE-LEARNING IN THE SCHOOL-AGE YEARS (3) Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning. (PR: CC)

SPA 5506 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY PRACTICUM (1-8 var.) Participation in Speech-Language Pathology and Audiology Practicum in the University clinical laboratory and selected field settings. (PR: CI)

SPA 5552 DIAGNOSTIC PRINCIPLES AND PRACTICES (2) The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders. (PR: Admission to the graduate program or CI)

SPA 6106 NEUROLOGICAL CORRELATES OF LANGUAGE (3) Review of the anatomy and physiology of the nervous system. Discuss neurological correlates of receptive and expressive language in verbal and non-verbal transmission and feedback. (PR: CI)

SPA 6232 NEUROMOTOR COMMUNICATION DISORDERS (3) A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated. (PR: CI)

SPA 6245 CRANIOFACIAL COMMUNICATION DISORDERS (3) An in-depth study of speech, language, and hearing problems associated with cleft lip and cleft palate and other craniofacial dysmorphologies. Consideration is given to the multidisciplinary approach to therapy and rehabilitation. (PR: CI)

SPA 6305 CHILD AUDIOLOGY (3) Etiologies and manifestations of hearing loss within a pediatric population. Survey of procedures used in early identification and quantified measurement of hearing loss in young and non-communicative children. (PR: SPA 5312, CC)

SPA 6314 ELECTROPHYSIOLOGIC AUDIOLOGY: EVOKED POTENTIALS (3) Theories and clinical methods of using auditory evoked potentials to assess the neural-integrity of the brainstem, gain estimates of auditory sensitivity and explore cognitive behaviors. (PR: SPA 5303 and SPA 5312 or CC)

SPA 6316 ELECTROPHYSIOLOGIC AUDIOLOGY: ELECTRONYSTAGMOGRAPHY (ENG) (3) Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus. (PR: SPA 5303 and SPA 5312 or CC)
SPA 6322 AURAL REHABILITATION: CHILDREN (3) Provides information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speechreading, auditory training, and language for hearing impaired. (PR: CC)

SPA 6326 CURRICULUM PROCEDURES AND MATERIALS FOR THE HEARING IMPAIRED (3) Curricular adaptation, methods and techniques, and organization necessary for teaching the hearing impaired. (PR: Major in Aural Rehabilitation or CC)

SPA 6329 READING FOR THE HEARING IMPAIRED (2) Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods. (PR: RED 4310, RED 4515, major in Aural Rehabilitation, and CC)

SPA 6345 HEARING AIDS (3) Interpretation of hearing test data as it relates to the selection of hearing aids and the planning of rehabilitation programs for the hearing impaired. (PR: CC)

SPA 6354 HEARING CONSERVATION (3) An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises. (PR: CC)

SPA 6401 PEDIATRIC LANGUAGE DISORDERS (3) An examination of the pre-verbal and language skills of the infant and preschool child, and of the Speech-Language Pathologist's role in the diagnosis, treatment, and as parent-trainer for these children. (PR: CI)

SPA 6410 APHASIA AND RELATED DISORDERS (3) Consideration of the neurological and psychological aspects of aphasia and related disorders as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated. (PR: CI)

SPA 6413 AUGMENTATIVE AND ALTERNATIVE COMMUNICATION (3) This course details the in-depth assessment and treatment of non-speaking individuals. Students will be presented with the variety of aided and unaided systems which exist for helping non-speaking persons; students gain experience in the use of these devices. (PR: CC)

SPA 6415 NEUROLINGUISTIC THEORIES OF LANGUAGE (3) Neurolinguistic theories as appropriate to the discipline are presented and discussed in relationship to language development and disorders. Information from linguistics, psycho-linguistics, artificial intelligence, neuroanatomy, and other sciences are applied to Language Science. (PR: CI)

SPA 6421 LANGUAGE FOR THE HEARING IMPAIRED (3) Techniques and materials of teaching language to children with auditory disorders as well as evaluation and analysis of contemporary methods. (PR: SPA 3030, SPA 3310, SPA 4363, or CI)

SPA 6422 SPEECH PERCEPTION AND PRODUCTION FOR THE HEARING IMPAIRED (3) In depth study of the effects of hearing loss on speech perception and on the development of speech production skills in children. Methods for testing/training speech perception/production skills in the hearing-impaired are discussed. (PR: SPA 3310, SPA 3311 or CI)
SPA 6505 PRACTICUM (1-8) Participation in speech-language pathology and audiology practicum in the University clinical laboratory and selected field settings. (PR: CI)

SPA 6553 ADVANCED DIFFERENTIAL DIAGNOSIS AND TREATMENT PLANNING (3) The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of advanced evaluation techniques not covered in SPA 5552. (PR: CI)

SPA 6601 CLINICAL PRACTICE ISSUES IN COMMUNICATION DISORDERS (1) Topics include: legal and ethical issues affecting practice, licensure, and ASHA certification, the ASHA Code of ethics, laws and regulations governing practice in health care and educational settings, quality assurance standards. (PR: CC)

SPA 6605 RESEARCH PROCEDURES IN COMMUNICATION SCIENCES AND DISORDERS (3) Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology. (PR: CI)

SPA 6906 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: CC)


SPA 6930 SELECTED TOPICS (3) A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member. Rpt. (PR: CI)

SPA 6971 THESIS; MASTER'S (1-19 Var.) Rpt. (PR: CC)

SPA 7931 SEMINAR IN COMMUNICATION SCIENCES AND DISORDERS (3) Addresses the central research and clinical issues related to the diagnosis and treatment of communication disorders. (PR: CI)
Criminology (CCJ)

4202 E. Fowler Avenue, SOC 107
Tampa, Fl 33620
(813) 974-2815
e-mail addresses: csellers@chumal.cas.usf.edu
mlynch@luna.cas.usf.edu
WebAddress: http://www.cas.usf.edu/criminology/

Chairperson: William Blount
Master's Program Director: Christine Sellers
Doctoral Program Director: Michael Lynch

Faculty: William R. Blount, Max L. Bromley, John Cochran, Mary Cuadrado,
Richard Dembo, James Halsted, Kathleen M. Heide, Kim Lersch, Michael Lynch,
Thomas Mieczkowski, Wilson Palacios, Christine Sellers, Ira Silverman, Mitchell
Silverman, Leonard Territo

Courtesy Appointments: John Feegal, Herman Schwendinger, and Julia Schwendinger

Academic Administrator: Marson Johnson.

Degrees Offered: M.A., Ph.D.

M.A. in Criminology
The M.A. in Criminology is a two-year program designed to provide the student with an
in depth understanding of the major ideas, issues, theories, and research comprising the
field of Criminology and Criminal Justice.

Additional Admission Requirements
1. Deadlines:
   For admission to the Fall semester, all materials including GRE
   scores must be submitted by March 31st of each year with notification
to the applicant by April 30th.
   For Spring semester, all materials including GRE scores must be submitted
   by September 30th of each year with notification to the applicant by
   October 31st.

2. Three letters of recommendation detailing applicant’s ability to do graduate
   work.
3. A letter of interest in the program
4. A sample of the applicant’s written work indicating applicant’s scholarly abilities,
   e.g., term paper, undergraduate thesis, or other research paper.
5. Must have passed an acceptable undergraduate social science statistics course
   (CCJ 4700 or the equivalent).
6. Must have passed an acceptable undergraduate social science research
   methodology course (CCJ 3701 or the equivalent)
7. Applications will be accepted throughout the year. However, acceptance decisions
   will be made twice a year.
Individuals who wish to take courses in the graduate program as non-degree seeking students must contact the Graduate Program Director prior to their first class appearance. Such students will usually be prohibited from enrolling in CCJ 6910, Directed Research.

**Program Requirements**
All course work counted toward the degree must have the prior approval of the Graduate Program Director of the Department of Criminology. Such work may include up to 6 hours outside the department.

**Thesis**
33 hours of CCJ course work, which must include:
- CCJ 6285 (4)
- CCJ 6605 (4)
- CCJ 6705 (4)
- CCJ 6706 (4)
- CCJ 6707 (4)
- CCJ 6050 (1)**
- CCJ 6971 (6)

The thesis will consist of research which makes an original contribution to the scholarly literature and which may be of either a quantitative or qualitative nature. An oral defense of the thesis is required after the final draft of the thesis has been accepted by the candidate’s supervisory committee.

**Non-Thesis: Area Project**
33 hours of CCJ course work, which must include:
- CCJ 6285 (4)
- CCJ 6605 (4)
- CCJ 6705 (4)
- CCJ 6706 (4)
- CCJ 6707 (4)
- CCJ 6050 (1)**
- CCJ 6974 (3)

**Should be taken during the first semester of the program.**

The non-thesis Area Project Option is intended primarily for students who do not intend to continue their graduate education beyond the M.A. degree. Participation in the non-thesis option is by departmental permission only. Area Project proposals must be approved by the student’s supervisory committee. Those students pursuing the Area Project option will produce a written report.

**Ph.D. in Criminology**
The Ph.D. is a research degree granted in recognition of high achievement in criminology. This achievement requires accomplishments beyond the completion of coursework which demonstrate the ability to work independently and contribute to criminological knowledge.

**Additional Admission Requirements**
The Ph.D. program in Criminology has a limited number of seats available to applicants each year. Only the best applicants from the applicant pool are admitted each year. The following rules apply to those seeking admission to the Ph.D. program in Criminology.
1. Admission to the Ph.D. program is limited to Fall admissions only.
2. Applications for admission must be received by February 1.
3. M.A./M.S. degree required.
4. G.P.A. of 3.0 and 1000 on the GRE (Verbal and Quantitative)
5. Three letters of recommendation speaking to the applicant’s academic abilities.
6. Candidate’s statement detailing reasons for seeking admission to the Ph.D. program in criminology at USF, future career goals, and research interests.
7. Sample of applicant’s written work providing evidence of candidate’s scholarly ability. Completed thesis or area paper or completed portions of thesis or area paper are expected to be submitted as writing samples.
Program Requirements
A total of 90 hours beyond the B.A./B.S., of which a minimum of 57* hours must be completed at USF. The 90 hours required for the Ph.D. are as follows:
1. 24 core hours (CCJ 6285, 6605, 6705, 6706, 6707, and 7057);
2. 36 elective hours, 9 of which must be in an area outside the department;
3. 6 hours meeting the Research Tool Requirement (see below);
4. 24 dissertation hours.

(*Contact the Program Director to determine the minimum number of hours needed in your individual case.)

In addition to successfully completing these requirements, students are required to pass two doctoral comprehensive examinations, complete residency requirements (9 hours each in the fall and spring, and 3 hours in the summer of the first year), and write and defend a dissertation prospectus and dissertation.

Tool Requirement
In order to meet the University's research tool requirement, students in criminology must complete either a foreign language competency examination, or two of the following three courses (CCJ 6708, 6709, 6716).

Comprehensive Examinations
Students take two comprehensive examinations: (1) general comprehensive, and (2) specialty comprehensive. The general comprehensive is an in-class examination that assesses the student's ability to employ theory, research methods, and statistics of research to address two problems selected by the faculty. The specialty comprehensive is constructed by the student's doctoral committee, and may include in-class, written take-home, written research, or oral examination formats.

Course Descriptions

CCJ 6050 PRO SEMINAR IN CRIMINOLOGY (1) Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics. Should be taken during the first semester. (PR: CI)

CCJ 6285 LAW, CRIME AND JUSTICE (4) An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provision, statutes, and case law. (PR: CI)

CCJ 6305 THEORY, PRACTICE, AND RESEARCH IN CORRECTIONS (3) Examination of the interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation. (PR: CI)

CCJ 6309 CURRENT ISSUES IN CORRECTIONS (3) This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmates, and the availability of programs and services. Attention will also focus on the strategies and/or controversies associated with these issues. Rpt with different subject matter. (PR: CI)
CCJ 6406 THEORY, PRACTICE, AND RESEARCH IN LAW ENFORCEMENT (3)
This issue-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges that confront law enforcement. (PR: CI)

CCJ 6605 THEORETICAL APPROACHES TO CRIMINAL BEHAVIOR (4) An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior. (PR: CI)

CCJ 6705 RESEARCH METHODS IN CRIMINOLOGY (4) Introduction to the methods of criminological research; overviews philosophy of science, research ethics, research design issues such as sampling and measurement, and methods of data collection, including survey, experimental, and evaluation research. (PR: CCJ 6050, CI)

CCJ 6706 QUANTITATIVE ANALYSIS IN CRIMINOLOGY I (4) Introduction to data management utilizing computer statistical packages and elementary statistical techniques used in criminological research: descriptive and inferential statistics, group comparisons, measures of association, linear regression. (PR: CI)

CCJ 6707 QUANTITATIVE ANALYSIS IN CRIMINOLOGY II (4) Intermediate level data analysis and statistical techniques applied to problems in criminology. Emphasis on multivariate techniques, including multiple regression, path analysis, and nonlinear models. (PR: CCJ 6706 or its equivalent, CI)

CCJ 6708 QUANTITATIVE ANALYSIS IN CRIMINOLOGY III (3) This course familiarizes students with advanced multivariate linear and nonlinear statistical procedures appropriate for analyzing criminological data. (PR: CCJ 6707 or its equivalent, CI)

CCJ 6709 QUALITATIVE METHODS IN CRIMINOLOGY (3) An in-depth analysis and discussion of several qualitative perspectives and corresponding methodological designs as they pertain to criminological research and inquiry. (PR: CCJ 6705, CI)

CCJ 6910 DIRECTED RESEARCH (1-19 Var.) Rpt. to a maximum of 3 hours toward the M.A. degree. S/U. (PR: CI)

CCJ 6716 EVALUATION RESEARCH IN CRIMINOLOGY (3) This course provides basic and advanced methods of evaluation research in a real world environment, paying particular attention to the idiosyncrasies of working with and within the Criminal Justice System. Grant preparation, survey techniques, and research design will be covered along with the policies, pressures, and peculiarities associated with evaluating agencies. (PR: CCJ 6705, CI)

CCJ 6905 DIRECTED INDEPENDENT STUDY (1-12) Independent study in which student must have contract with instructor. (PR: majors only, CI)

CCJ 6931 SEMINAR IN CRIMINOLOGICAL THEORY (3) This course is designed to provide an in-depth analysis of specific theoretical areas or issues in criminology. Rpt with different subject matter. (PR: CCJ 6605, CI)
CCJ 6935 TOPICS IN CRIMINOLOGY AND CRIMINAL JUSTICE (3) Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses. Repeatable with different subject matter. (PR: CI)

CCJ 6936 CURRENT ISSUES IN LAW ENFORCEMENT (3) This course will focus on some of the most significant issues facing law enforcement agencies today. Some topics included will be: police use of deadly force; review of police conduct; police unionization; police corruption; media relations; civil liability; and community/problem-oriented policing. Rpt. up to 9 hours.

CCJ 6971 THESIS: MASTER’S (1-19 Var.) Rpt. up to 6 hours toward M.A.

CCJ 6974 AREA PROJECT (1-12 Var.) Rpt. Required of students not using the thesis option. Maximum of 3 hours toward the Master’s degree. S/U. Rpt. yp to 12. (PR: GS in the Department and CI)

CCJ 7057 ETHICS IN CRIMINOLOGY (4) This course is designed to review and analyze the various ethical issues and dilemmas that confront the criminal justice system and the discipline of criminology. Because of the unique characteristics of the people and problems dealt with in criminology, the ethical issues in the area often are novel when compared to those in other fields.

CCJ 7910 ADVANCED RESEARCH (1-12) Course is designed to give students an opportunity to conduct independent research under the supervision of a faculty member. Rpt. (PR: doctoral students only)

CCJ 7980 DOCTORAL DISSERTATION (1-12)
**English (ENG)**

4202 E. Fowler Avenue, CPR 107  
Tampa, Fl 33620  
Phone: (813) 974-2421  
Fax: (813) 974-2270  
WebAddress: http://www.cas.usf.edu/

Chairperson: Steven J. Rubin  
Program Director: Jack B. Moore


**Degrees Offered:**  M.A., Ph.D.

**Specializations:**  English with a Specialization in Literature  
English with a Specialization in Rhetoric and Composition

**M.A. Admission Requirements**

1. An undergraduate English major with an overall GPA of at least 3.3 and an English GPA of at least 3.5.
2. A total quantitative and verbal GRE General Test score of 1000 or higher with a verbal GRE score of at least 600.
3. 3 letters of recommendation, preferably from former literature instructors.*  
4. A 2-3-page statement describing the student's background, purpose for attending graduate school, and career goals.*

*Letters of recommendation and statement should be sent to the Director of Graduate Studies, Department of English, University of South Florida, Tampa, FL 33620. Candidates with a B.A. in a field other than English will be considered after certain undergraduate requirements are satisfied.

**M.A. in English with a Specialization in Literature**

The M.A. in English Literature is designed primarily to train advanced students of literature. The program requires study of both literature and composition.
Program Requirements

33 Credit Hours, which must include:
1. ENG 6009 (3) (this should be taken early in the sequence)
2. LAE 6375 (3)
3. One of the following:
   - ENL 6206 (3)
   - ENL 6261 (3)
   - ENL 6227 (3)
   - ENL 6228 (3)
4. One of the following:
   - ENL 6236 (3)
   - ENL 6246 (3)
   - ENL 6256 (3)
   - ENL 6276 (3)
5. One of the following:
   - AML 6017 (3)
   - AML 6018 (3)
   - AML 6027 (3)
6. LIT 6934 (3)
7. ENG 6018 (3)
8. ENG 6971 (3) Thesis on a Literary Subject

Options: A student may transfer up to 6 hours of credit from another university; up to 12 hours taken as a non-degree seeking student. Up to 6 hours may be taken in another department (the courses to be approved in advance by the Department of English Graduate Committee). A student receiving one grade of "C" or lower in a graduate course will be placed on academic probation. A student receiving two grades of "C" or lower will be dismissed from the program, subject to a review by the departmental Graduate Committee.

Comprehensive Examination
All M.A. students will be required to write a comprehensive exam. Specifics of the exam are described in the department's Graduate Handbook.

M.A. in English with a Specialization in Rhetoric and Composition

The M.A. in English (Rhetoric and Composition) is designed primarily to train advanced students of literature and Rhetoric.

Program Requirements

33 credit hours, which must include:
1. ENG 6009 (3) (this course should be taken early in the sequence)
2. LAE 6375 (3)
3. ENC 6336 (3)
4. Two of the following:
   - ENC 6700 (3)
   - ENC 6720 (3)
   - ENC 6740 (3)
5. LIT 6934 (3)
6. One of the following:
   - AML 6017 (3)
   - AML 6018 (3)
   - AML 6027 (3)
7. One of the following:
   - ENL 6206 (3)
   - ENL 6216 (3)
   - ENL 6227 (3)
   - ENL 6228 (3)
8. One of the following:
   - ENL 6236 (3)
   - ENL 6246 (3)
   - ENL 6256 (3)
   - ENL 6276 (3)
9. ENG 6971 (3) Thesis on a Rhetoric and Composition Subject

Options - See above.
Comprehensive Examination - See above
Ph.D. in English
The goal of this program is to produce teacher-scholars who have a good general knowledge of British and American literature and a special knowledge of their fields of concentration. Each student in the program must take courses in teaching college English; these courses include actual teaching experience.

Admission Requirements
1. a. An M.A. in English with a graduate GPA of 3.7.
   b. An M.A. in another discipline, in which case the student will be required to take supplementary graduate work and pass a preliminary comprehensive exam before being officially admitted to the program.
2. A verbal GRE Test score of 650 or higher.
3. A 3-4 page statement, describing the student’s background, purpose for attending graduate school, and career goals.
4. A critical essay written in a graduate humanities course accompanied by verification from the professor for whom it was written.*
5. Three letters of recommendation; at least two of these letters should be from professors who have taught the applicant at the graduate level.*

(*Statement, essay, and letters of recommendation and statement should be sent to the Director of Graduate Studies, Department of English, University of South Florida, Tampa, FL 33620.)

Program Requirements
The Ph.D. in English involves a minimum of 30 hours of course work beyond the M.A. degree, exclusive of credits devoted to the foreign language and tools-of-research requirements and the doctoral dissertation. Included in these hours, if not taken on the Master’s level, must be ENC 6319, ENG 6009, LAE 7386, ENG 6018, and ENG 7939, which must be taken twice. A dissertation is required.

After completing the necessary course work (which will be selected after consulting with the advisory committee), a student must take a nine-hour written doctoral comprehensive exam. Students passing this exam and fulfilling the foreign language/tools-of-research requirements are admitted to doctoral candidacy. Students failing this exam more than once are dismissed from the program.

After completion of an approved dissertation, the student will defend this dissertation in a two-hour oral examination and may also be examined in the major field. The doctoral degree is awarded after successful completion of the dissertation and the dissertation defense.

A student may transfer no more than 6 hours of graduate credit from another university. No more than 6 hours of credit may be taken in another department (the courses must be approved in advance by the departmental Graduate Committee).

A student receiving one grade of “C” or lower in a graduate course will be placed on academic probation. A student receiving two grades of “C” or lower will be dismissed from the program, subject to a review by the departmental Graduate Committee.

Course Descriptions:

AML 6017 STUDIES IN AMERICAN LITERATURE TO 1860 (3) Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others. Rpt. 3 times with different subject matter.
AML 6018 STUDIES IN AMERICAN LITERATURE -- 1860 TO 1920 (3) Selected focused studies in American literature: Dickinson, Whitman, Twain, Howells, James, Jewett, Chopin, Crane, Dreiser, and others. Rpt. 3 times with different subject matter.

AML 6027 STUDIES IN MODERN AMERICAN LITERATURE (3) Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Anderson, Wolfe, Cummings, Frost, Pound, and Eliot. Rpt. 3 times with different subject matter.

ENC 6319 SCHOLARLY WRITING FOR PUBLICATION IN ENGLISH STUDIES (3) Methods of writing and publishing scholarly articles, monographs, and textbooks in rhetoric and composition, literary scholarship, and criticism.

ENC 6336 RHETORICAL DIMENSIONS OF COMPOSITION (3) Examines the evolving relationship between rhetoric and composition from antiquity to the present.

ENC 6700 STUDIES IN COMPOSITION THEORY (3) Major theories and models of composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes. Rpt. 3 times with different subject matter.

ENC 6720 STUDIES IN COMPOSITION RESEARCH (3) Examines and evaluates a broad range of important research studies conducted in composition and a variety of research techniques such as descriptive statistics, qualitative research design, and measurement and evaluation. Instruction in how to conduct composition research. Rpt. 3 times with different subject matter.

ENC 6740 THEORY AND DEVELOPMENT OF WRITING PROGRAMS (3) Operating theories of and administrative procedures for implementing writing programs on various levels; focuses on remedial, freshman, advanced, and technical writing programs as well as writing centers.

ENG 5067 HISTORY OF THE ENGLISH LANGUAGE (3) The course will trace the history of the English language from its beginnings in continental Europe, through the Anglo-Saxon and Middle English periods, the Renaissance, and the Nineteenth Century, to the present day with emphasis on both the structural development of the language and the political, social, and intellectual forces that determined this development. (PR: Sr or GS)

ENG 6009 BIBLIOGRAPHY FOR ENGLISH STUDIES (3) Detailed study of bibliographies of cultural milieus, genres, periods, and authors. Consideration of the profession's standards and procedures for publishing scholarly research. In addition to library research, the student will also submit one scholarly article of publishable quality.

ENG 6018 SCHOLARSHIP AND CRITICISM (3) Selected focused study of research approaches to English Literature. Rpt. 3 times with different subject matter.


ENG 6939 GRADUATE SEMINAR IN ENGLISH (3) Rpt. 3 times with different subject matter.


ENG 7939 DOCTORAL SEMINAR (3) Intensive small-group discussion as well as shared and individual guided research in a student's area of doctoral specialty. Rpt. to 3 times with different subject matter. (PR: Admission to Ph.D. Program)


ENL 6206 STUDIES IN OLD ENGLISH (3) A study of Old English language, prose style, poetry. Rpt. 3 times with different subject matter.

ENL 6216 STUDIES IN MIDDLE ENGLISH (3) Selected focused studies in language and in various authors and writings, 1100-1500; Chaucer, the Pearl poet, Everyman, ballads, drama. Rpt. 3 times with different subject matter.

ENL 6227 STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE (3) Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others. Rpt. 3 times with different subject matter.

ENL 6228 STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE (3) Selected focused studies in British literature, 1600-1660; Bacon, Donne, Jonson, Herbert, Milton, and others. Rpt. 3 times with different subject matter.

ENL 6236 STUDIES IN RESTORATION AND EIGHTEENTH-CENTURY BRITISH LITERATURE (3) Selected focused studies in Restoration and Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others. Rpt. 3 times with different subject matter.

ENL 6246 STUDIES OF THE ROMANTIC PERIOD (3) A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry. Rpt. 3 times with different subject matter.

ENL 6256 STUDIES IN VICTORIAN LITERATURE (3) A study of Victorian poetry, fiction, non-fictional prose, and drama. Rpt. 3 times with different subject matter.

ENL 6276 STUDIES IN MODERN BRITISH LITERATURE (3) A study of Irish and English drama, the modern novel, poetry, criticism, and the short story. Rpt. 3 times with different subject matter.

LAE 6375 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: COMPOSITION (3) An examination of the objectives of freshman English and an investigation of current techniques for achieving those objectives, emphasizing the problems of developing critical reading skills and the techniques of expository writing at the college level.

LAE 6389 PRACTICE IN TEACHING LITERATURE (3) A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and teach college English teachers the variety and importance of literary techniques and their relevance to various subject matters. (S/U. Rpt. 3 times with different subject matter.)
LAE 6392 PRACTICE IN TEACHING COMPOSITION (3) Required of all Teaching Assistants new to U.S.F.'s Freshman English program. Gives practical guidance in preparing to teach composition. S/U.

LAE 7376 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION OF COMPOSITION (3) Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry. (PR: Admission to Ph.D. program)

LAE 7390 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION AND SCHOLARLY RESEARCH (3) This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in lecture, seminar discussion, examinations, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation. (PR: Admission to Ph.D. program)

LIT 6096 STUDIES IN CONTEMPORARY LITERATURE (3) Drama, poetry, fiction, and literary criticism; authors to be studied include Marquez, Mamet, Bellow, Vonnegut, Morrison, and Walker. Rpt. 3 times with different subject matter.

LIT 6105 STUDIES IN World LITERATURE (3) General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, South American literature, and Post Colonial literature. Rpt. 3 times with different subject matter.

LIT 6934 SELECTED TOPICS IN ENGLISH STUDIES (1-6) Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; and the Nature of Myth, Allegory, and Symbolism. Other topics will be added in accordance with student demand and instructor interest. Rpt. 3 times with different subject matter.
Environmental Policy & Management
4202 E. Fowler Avenue, SCA238
Tampa, Fl 33620
(813) 974-2739
e-mail address: Khator@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu/

Director: Renu Khator
Graduate Advising: Anthony Dodson

Faculty: Ingrid Bartsch, Richard A. Davis Jr, Clinton J. Dawes, Anthony L. Dodson, Daniel Fox, Renu Khator, Eric (Rick) Oches, Martin R. Schonfeld, John R. Swinton, Florence Thomas

Degrees Offered: M.S. in Environmental Science and Policy*
Graduate Certificate Available
*Pending Approval; contact the program for current information

Graduate Certificate in Environmental Policy and Management

As we proceed into the 21st century, the environment represents one of the most critical issues facing nearly all nations individually as well as the earth’s community as a whole. Increased population, greater consumption and diminishing resources combined with technological advances and new scientific revelations all play an important role in the study of the environment. By now, we realize that the environment is a multidisciplinary field where neither problems nor solutions honor traditional disciplinary boundaries. It is a field where information is fast flowing and technologies are rapidly evolving. The Graduate Certificate in Environmental Policy and Management fills this need by providing a broad-based, multidisciplinary educational program to professionals, practitioners, citizens and students who wish to acquire or strengthen their knowledge of the environment.

The Certificate is designed for...
◊ Environmental professionals with science and engineering degrees who wish to seek a greater understanding of the political, economic and social context in which science is applied to the real world.
◊ Public administrators who are not specifically trained in the environmental field but are currently working in this area.
◊ Professionals in organizations that deal, either primarily or heavily, with environmental issues.
◊ Environmental professionals who wish to strengthen their managerial skills.
◊ Graduate students enrolled in other disciplines who wish to make the emerging environmental field the focus of their career.
◊ Undergraduate students who are not ready to pursue a graduate degree but wish to strengthen their credentials.
Concerned citizens who wish to pursue the satisfaction of intellectual exploration in the environmental field.

A Program for the Non-Traditional and Traditional Student
* Most classes are offered in the evening.
* Most classes meet once a week.
* Graduate Record Exam (GRE) is NOT required for admission.
* The curriculum is rigorous yet flexible to cater to individual needs.
* Courses taken under the Certificate may qualify for graduate programs in other departments.

Admission Requirements
1. A completed program application available from the Program Office.
2. An original, sealed copy of your undergraduate transcripts reflecting your degree completion.
3. A letter of recommendation from a colleague, supervisor or professor.
4. A brief (less than 250 word) statement as to how this certificate will help you achieve your career goals.

An application may be obtained from the Environmental Science and Policy Program Office in the Science Center (SCA) Room 238 or by telephone (813) 974-2739. Admission is granted upon the recommendation of the Graduate Certificate Committee.

Program Requirements
The Environmental Policy and Management Certificate curriculum is designed to include courses in environmental philosophy, environmental policy, environmental politics, environmental law, environmental ethics and environmental management. It requires a common core but also allows students to take electives based on their skills and needs.

Required Courses
- GEO 6116 Perspectives of Environmental Thought
- EVR 6922 Environmental Science and Policy Seminar
  (Capstone Course) *Must be taken after completion of at least 4 courses.

Core Courses
*Students must take at least 2 courses from the following list
- ENV 5614 Environmental Risk Analysis
- CPO 5934 Comparative Environmental Policy
- ECP 6305 Environmental Economics
- MAN 6930 Environmental Management
- PAD 5605 Administrative Law
- PHI 6605 Environmental Ethics

Elective Courses
*Students may take no more than 2 courses from the following list
- PUP 6007 Seminar in Public Policy
- PHI 6405 Seminar in Philosophy of Science
- PHI 6425 Seminar in Philosophy of Social Science
- ECP 6456 Law and Economics
- ECO 6305 History of Economic Thought
Course Descriptions*:

EVR 6908 ENVIRONMENTAL SCIENCE, POLICY, AND MANAGEMENT - INDEPENDENT STUDY (1-3) This course offered under Independent Study will provide students with a greater range of more detailed information about Environmental Science, Policy, Ethics, Economics, Law, and Management.

EVR 6934 GRADUATE ENVIRONMENTAL SCIENCE, POLICY, AND MANAGEMENT - SELECTED TOPICS (3) Selected topics, issues, and problems in Environmental Science, Policy, and Management.

*For descriptions of courses in the Environmental Science and Policy program not listed here, refer to the program from which the course is taken.
Geography (GPY)

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2386
e-mail address: rbrinkmn@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu/

Chairperson: Graham A. Tobin
Program Director: Kevin Archer

Faculty: Robert T. Aangeenbrug, Kevin Archer, Robert Brinkmann, Jayajit Chakraborty, Thomas W. Gillespie, Rebecca A. Johns, A.G. Laing, Tracy Newsome, Steven Reader, Dewey M. Stowers (Emeritus), Graham A. Tobin

Degrees Offered: M.A.

Specializations: Urban and Social Geography, Environmental Geography, Geographical Techniques

Geography is the study of the human-environment relationship either in a global or more regional context. Physical geographers focus on physical/human interrelationships and the interconnections among the various physical environmental elements. Human geographers focus on human interactions with their own environmental constructions, both built and social. Physical and human geographers both rely on specific techniques, including cartography, geographic information systems, and field work, in their research. The Department of Geography provides the opportunity to pursue the study of geography with particular emphasis on applied work geared to help solve real world problems.

M.A. in Geography

Additional Requirements
1. Three letters of recommendation
2. A personal statement of background and goals

Program Requirements
Graduate students in Geography are required to complete 30 credit hours of graduate level courses in addition to the general graduate requirements of the university. A comprehensive written exam covering the general field of Geography is required of each student after completion of a minimum of 15 graduate credit hours. Students also will be required to defend orally their M.A. thesis or internship project after its completion.

All students must take the following core courses:
  GEO 6058

Plus one of the following:
  GEA 6195, GEA 6215, GEA 6252, GEA 6405, GEA 6504, GEA 6745
Students must select from one of the tracks listed below. Students must select three courses (9 hrs.) from the selected track, plus 6 formal credit hour electives at a level of 5000 or higher. At least one of these electives must be taken outside of the student's track. Electives may be selected from courses outside of the Department with the consent of the student’s advisor. The remaining 9 credits hours must be taken as thesis (GEO 6971), internship (GEO 6944), directed research (GEO 6918), or independent study (GEO 6908)

**Track A: Urban and Social**

GEO 5475  GEO 5545  GEO 5605  GEO 5704  GEO 6116  
GEO 6428  GEO 6566

**Track B: Environmental**

GEO 5145C  GEO 5215  GEO 5263  GEO 5288  GEO 5347  
GEO 6116  GEO 6209C  GEO 6217  GEO 6286

**Track C: Techniques**

GEO 5145C  GEO 6115  GEO 6119  GEO 5157  GEO 6149  
GEO 6166  GEO 6146

**Course Descriptions:**

**GEA 6195 SEMINAR IN ADVANCED REGIONAL GEOGRAPHY** (3) Analytic study of a selected region of the world. Rpt. once for credit, but region may not be repeated. (PR: GS in Geography)

**GEA 6215 SEMINAR IN NORTH AMERICAN GEOGRAPHY** (3) Advanced survey of historical and contemporary issues in North American geography including: west and non-west exchange, revolutionary transformation, nation-building, regional disparities, and continental relations among states. (PR: GS in Geography or CI)

**GEA 6252 SEMINAR IN THE GEOGRAPHY OF THE AMERICAN SOUTH** (3) Intensive examination of regional geographic studies and their application to the American South, integrating concepts related to the physical and cultural landscapes, economic growth and change, urbanizations, and cultural diffusion processes. (PR: GS in Geography or CI)

**GEA 6405 SEMINAR IN LATIN AMERICAN AND CARIBBEAN GEOGRAPHY** (3) Readings and discussions organized around an examination of regional and systematic analysis of selected topics of Latin American and Caribbean geography. Emphasis is on combining physical and cultural analysis of this region. (PR: GS in Geography or CI)

**GEA 6504 SEMINAR IN EUROPEAN GEOGRAPHY** (3) Readings and discussions organized around an examination of regional and systematic analysis of selected topics of European Geography. Emphasis is on combining physical and cultural analysis of this region. (PR: GS in Geography or CI)

**GEA 6745 SEMINAR IN THE GEOGRAPHY OF SOUTH ASIA** (3) Analysis of the construction of regional identity in South Asia. Includes major historical processes such as cultural and social formation, communalism, the role of women, or environmental concerns. (PR: GS in Geography or CI)
GEO 5142 GIS FOR NON MAJORS (3) An introduction to the concepts underlying digital information systems for non-geography majors and non geography graduate students.

GEO 5145C ADVANCED REMOTE SENSING (3) Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing. (PR: GS in Geography or CI. GEO 4124C)

GEO 5215 ADVANCES IN GEOMORPHOLOGY (3) Advanced examination of geomorphic processes and landforms with an emphasis on Florida. (PR: GEO 4372 or CI)

GEO 5263 ADVANCES IN SOILS (3) Examination of how earth systems influence soil formation and variation. Detailed analysis of soils climagequences, biosequences, toposequences, lithosequences, chronosequences, and anthrosequences. (PR: GEO 4372 or CI)

GEO 5288 HYDROLOGICAL SYSTEMS (3) A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling streamflows. (PR: GEO 4372 or CI)

GEO 5347 ADVANCES IN NATURAL HAZARDS (3) Analysis of natural hazards integrating principles of physical, social, economic, political, and technical forces that affect extreme geophysical events. (PR: GEO 4372 or CI)

GEO 5475 ADVANCED POLITICAL GEOGRAPHY (3) Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making. (PR: GEO 4470 or CI)

GEO 5545 ADVANCED ECONOMIC GEOGRAPHY (3) An intensive examination of selected issues in economic geography including: regional development and decline; spatial labor market trends; business locational analysis; and comparative economic policy. (PR: GEO 4502 or CI)

GEO 5605 CONTEMPORARY URBAN ISSUES (3) Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics or urban governance, and urban culture. (PR: GEO 3602; GEO 4604 or CI)

GEO 5704 ADVANCED TRANSPORTATION GEOGRAPHY (3) Review of transportation issues and analysis, focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to the use of GIS for such analysis. (PR: GEO 4114; GEO 4700 or CI)

GEO 6058 GEOGRAPHIC LITERATURE AND HISTORY (3) The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals. (PR: GS in Geography, or CI)

GEO 6115 ADVANCED FIELD TECHNIQUES (3) Field examination of one region. Students will complete field work in human and physical geography in a selected area. (PR: GS in Geography or CI)
GEO 6116 PERSPECTIVES OF ENVIRONMENTAL THOUGHT (3) Analysis of the evolution of the major schools of environmental thought from antiquity to present-day green analysis, deep ecology, ecofeminism, and post-modern ecology. (PR: GEO 6058 or CI)

GEO 6119 SEMINAR IN ADVANCED TECHNIQUES AND METHODOLOGY (3) Analytic study of a technique or investigation into an aspect of methodology. Rpt. once for credit, but topic may not be repeated. (PR: GS in Geography)

GEO 6146 READINGS IN GIS (3) Analytic study of selected topics in GIS. The course will familiarize students with case studies involving GIS applications in environmental studies, coastal modeling, and urban planning. (PR: GEO 6147 or CI)

GEO 5157 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (3) Spatial problem solving utilizing GIS mapping and statistical methods. The course is designed to give students hands-on experience in using computerized techniques for geographic analysis. (PR: GS in Geography or CI)

GEO 6149 READINGS IN REMOTE SENSING (3) Analytic study of selected topics in remote sensing. Discussions around topics include data acquisition, sensor systems, multispectral and radar image analysis, change detection, and integration of remote sensing with GIS. (PR: GEO 5145)

GEO 6166 ADVANCED STATISTICAL METHODS (3) Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted. (PR: GS in Geography or CI, GEO 4164C)

GEO 6209C SEMINAR IN ADVANCED PHYSICAL GEOGRAPHY (3) Analytic study of one or more topics from physical geography. Selected problems may include hydrology, physiography, meteorology, climatology, soils, or vegetation, etc. May be repeated once. (PR: GS in Geography or CI)

GEO 6217 HISTORICAL GEOMORPHOLOGY (3) An in-depth examination of the use of historical evidence in geomorphic studies. The objectives, methods and results of studies in which historical sources have been applied to geomorphic problems are reviewed. (PR: GS in Geography or CI)

GEO 6286 ADVANCES IN WATER RESOURCES (3) Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments. (PR: GS in Geography or CI)

GEO 6428 SEMINAR IN ADVANCED CULTURAL GEOGRAPHY (3) Analytic study of a problem selected from aspects of the cultural landscape (urban, political, economic, population, settlement). Rpt. once. (PR: GS in Geography, CI)

GEO 6566 SITE FEASIBILITY ANALYSIS (3) A project-oriented geographic examination of urban real estate development and site feasibility practices. Hands-on course including concepts of real estate development patterns, urban growth, and site-specific factors related to feasibility of specific developments. (PR: GS in Geography, or CI)
GEO 6908 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. S/U.


GEO 6944 INTERNSHIP IN GEOGRAPHY (3) The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience. S/U. (PR: GS in Geography. CC)

Geology (GLY)

4202 E. Fowler Avenue, SCA 528
Tampa, Fl 33620
(813) 974-2236
e-mail address: namcg@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu/

Chairperson: Mark T. Stewart
Program Director: Peter J. Harries
Program Coordinator: Nancy Mole


Degrees Offered: M.S., Ph.D.

Specializations: Biomineralization, Coastal Geology, Environmental Geophysics, Geochemistry, Geomorphology, Hydrogeology, Mineralogy, Paleobiology, Tectonics, and Volcanology

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes which affect our planet.

M.S. in Geology

Additional Admission Requirements
1. A combined GRE score (verbal and quantitative) of at least 1000.
2. A GPA of at least 3.0 is required for the last 60 credits (2 years) for admission.
3. Applicants are encouraged, but not required, to take the advanced subject portion of the GRE.
4. Three letters of recommendation
5. A personal statement.
6. International students are required to take the TOEFL examination.
7. A structured field course (normally a summer field course in geology) is recommended.
8. Undergraduate deficiencies are determined by the applicant's declared area of interest. Applicants will be notified of coursework deficiencies at the time of admission. Deficiencies must be made up during the first year of full-time study, or the equivalent for part-time students.

Program Requirements
The Department of Geology requires a candidate for the thesis-track M.S. Degree to complete at least 30 graduate credit hours. These hours are subdivided into 24 hours of structured coursework, of which at least 10 must be at the 6000 level, and at least 6 hours in thesis research (GLY 6971). The curriculum for a Geology graduate student varies
depending on the area of research interest. Specific course work for the degree is determined via consultation between the student, his/her primary advisor and his/her student advisory committee. Other pertinent information regarding graduate study is contained in the Department's Graduate Student Handbook, which is available upon request.

All degree candidates are required to maintain satisfactory academic progress at all times. Satisfactory academic progress in this program is defined as progress in course and thesis work. Evidence of academic progress includes timely completion of departmental requirements such as selecting a primary advisor, forming a student advisory committee, completion of any prerequisites or deficiencies, timely progress toward completion of the thesis including meeting with the advisory committee once each semester, maintaining a satisfactory GPA, defending a thesis proposal, and making a public presentation. A schedule for meeting these requirements is contained in the Department's Graduate Student Handbook.

**Hydrogeology Internship**
M.S. Option -This program requires 30 hours of structured coursework, and a 3-credit internship project. A list of approved courses is available from the Department. Criteria for selecting appropriate internship projects are contained in the Geology Graduate handbook. Internship projects, which are supervised by Professional Geologists (PGs), must receive prior approval by the Internship Coordinator. The curriculum requires a comprehensive exit exam which is based on coursework and the internship project. Before the exit exam, the student must submit an Internship Project Report approved by the supervising PG. The format of the exam will be determined by the hydrogeology internship committee. Normally, it is an oral examination following the student’s presentation of the results of the internship project to the hydrogeology internship committee.

**Certificate of Advanced Studies in Hydrogeology**
The Department offers a Certificate of Advanced Studies in Hydrogeology which requires 15 hours of specified structured coursework. Details are available from the USF Graduate Certificates office.

**Certificate of Concentration in Solid and Hazardous Waste Management**
See College of Engineering.

**Ph.D. in Geology**

**Additional Admission Requirements**

1. A masters degree or equivalent, in an appropriate discipline,
2. A minimum of a 3.0 overall GPA in all work prior to admission,
3. A 1200 on the combined verbal and quantitative sections of the GRE,
4. Strong letters of recommendation from faculty in both the undergraduate and graduate programs of the applicant.

**Program Requirements**
The Ph.D. program in geology has a requirement of at least two years of full-time residence after admission to the doctoral program. It need not be consecutive but must have at least one year (12 mos.) of consecutive residence. While meeting the residency requirement a student may not hold a job not directly related to his/her graduate program, and must be a full-time student in good academic standing.

A minimum of 15 semester hours of graduate (6000 level) structured course work after the masters or equivalent is required. Course requirements beyond this are at the discretion of the student’s committee.
All doctoral students must maintain good standing in the Office of Graduate Studies (overall GPA 3.0) and maintain satisfactory academic progress toward the degree. Any student who receives a C in a structured course will be placed on academic probation. This probation can be terminated by achieving no grades less than B in the subsequent semester of full-time enrollment. If a second grade of “C” is received the student is terminated from the doctoral program. Only courses in which the student receives a B or better may be counted toward the 15-hour, structured-course requirement.

General examinations should be taken no later than the end of the second year in the doctoral program. The examining and dissertation committees are the same and will be comprised of no less than five members, at least four of which must be regular members of the USF Graduate faculty.

Admission to candidacy will be based on the results of a general examination administered by the student’s committee. The format of the exam will be determined by the committee, but normally will consist of a written section or sections, followed by an oral examination chaired by the student’s research advisor.

After admission to candidacy, all doctoral students will make at least one formal presentation of their research each year in the program including the year of admission to candidacy. Any appropriate venue is acceptable, e.g. Dept. colloquium, oral or poster session at a scientific meeting of at least regional scope.

Course Descriptions:

**GLY 5752 GEOLOGICAL FIELD EXCURSION** (2) Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec. Field trip. (PR: Sr. Standing in Geology or CI)

**GLY 5865 STATISTICAL MODELS IN GEOLOGY** (3) Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec. (PR: STA 3023 or equiv. or CI)

**GLY 5932 SELECTED TOPICS IN GEOLOGY** (1-4) Each topic is a course under the direction of a faculty member. All areas of geology included. (PR: Sr. or advanced standing)

**GLY 6156 GEOLOGY OF NORTH AMERICA** (2) Regional structure, stratigraphy, and history of North America. (PR: GS or CI)

**GLY 6246 GENERAL GEOCHEMISTRY** (3) Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments. (PR: One year college Chemistry, GLY 3200 or CI)

**GLY 6248 SEDIMENTARY GEOCHEMISTRY** (3) The geochemistry of fluid-rock interaction with emphasis on the diagenesis of sedimentary material. (PR: GLY 6246 or CI)

**GLY 6285C ANALYTICAL TECHNIQUES IN GEOLOGY** (3) Use and application of analytical methods including X-ray, atomic absorption, ICP/MS, TEM, SEM, and other geochemical techniques. Interpretation and statistical analysis of the data acquired. Lec/Lab. (PR: One year college Chemistry, GLY 4310 or CI)
GLY 6315C IGNEOUS AND METAMORPHIC PETROLOGY (3) Systematic study of igneous and metamorphic rocks and complexes, including origin, composition, and classification. Use of the polarizing microscope for thin section analysis is emphasized, and other methods of study are also employed. Lec/Lab. (PR: GLY 4310)

GLY 6345 SEDIMENTARY PETROGRAPHY (3) Classification, petrographic description and interpretation of sedimentary rocks including depositional environment and diagenesis. Lec/Lab. (PR: GS or CI)

GLY 6424 GLOBAL TECTONICS (2) Development of the global tectonic hypothesis, global tectonic theory, and application of the theory in selected regions of the earth. (PR: GS or CI)

GLY 6475 PRINCIPLES OF APPLIED GEOPHYSICS (4) Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec/Lab. Field trips. (PR: One year of Physics or CI)

GLY 6553 FACIES MODELS (3) Characterization of facies models for stratigraphic sequences representing terrestrial, transitional and marine sedimentary environments. Emphasis on textures, structures and composition of strata and their environmental interpretation in the rock record. (PR: GLY 4550 or equiv., or CI)

GLY 6575C COASTAL SEDIMENTATION (3) Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec/Lab. Field trips. (PR: GLY 4550 or equiv., or CI)

GLY 6659 MOLECULAR PALEONTOLOGY (3) Theory and practice of using molecules in paleontology, including historical development of the field, application of taxonomic determination, phylogenetic reconstruction, role of organic molecules in biomineralization, and amino acid racemization dating. (PR: Background in both Micro and Macro-paleontology and CI)

GLY 6739 SELECTED TOPICS IN GEOLOGY (1-4) Each topic is a course directed by a faculty member. Topics taught have included: Stratigraphic Record, Subsea Groundwater Discharge, Advanced Hydrogeology, Numerical Methods, Geologic Reasoning, Carbonate Depositional Systems, Caronate Environments, Tracer Geochemistry, Advanced Stratigraphy, Applied Paleobiology, Groundwater Geochemistry, Topics in Petrology, Mass Extinctions and Petrology, Geology of the Bahamas, Geology of South Florida, Modern Carbonate Environments, Isotope Geology. Rpt. (PR: CI)

GLY 6827C ADVANCED HYDROGEOLOGY (4) Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec/Lab. Field trips. (PR: GLY 4822, one year college calculus or CI)

GLY 6828 GROUND-WATER GEOCHEMISTRY (3) Chemical behavior of ground water. Includes interaction of water with aquifer materials, salt-water intrusion, chemical impacts of waste disposal, use of chemical tracers, and transport of hazardous chemicals. Methods of sampling and data interpretation are emphasized. Lec. (PR: One year of college Chemistry, GLY 4822, GLY 6246, or CI)
GLY 6905 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CC)


GLY 6931 GRADUATE SEMINAR (1) Rpt. S/U.

GLY 6933 ADVANCED TOPICS IN GEOLOGY (2) Current topics in Geology. Rpt. (PR: GS)


GLY 7980 DISSERTATION: DOCTORAL (1-19 Var.) S/U. (PR: Admission to Candidacy)

OCG 6656C MARINE MICROPALAEONTOLOGY (4) Introduction to the microscopic marine fauna and flora, found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils. (PR: B.S. in Geology or Biology, OCG 5050, or CI)
Gerontology (GEY)

4202 E. Fowler Avenue, SOC 107
Tampa, Fl 33620
(813) 974-2414
e-mail address: jskinner@chuma.cas.usf.edu
WebAddress: http://www.cas.usf.edu/gerontology/index.html

Chairperson: William Haley
Program Director: John Skinner


Degrees Offered: M.A.

Gerontology is the study of the process of human aging in all its aspects: physical, psychological, and social. In the Department of Gerontology, particular emphasis is placed on educating students who, in their professional careers, will work to sustain or improve the quality of life of older people. Many of our program graduates are employed in agencies providing services for older adults. For information about the interdisciplinary Ph.D., see the separate listing for Aging Studies Ph.D.

M. A. in Gerontology

The Department offers the M.A. in Gerontology, with either a thesis or non-thesis option. In addition to completing a required core curriculum, students may select gerontology courses suited to their particular career goals. These include courses focused on such diverse areas as research, program administration, and direct service. Applications are accepted continuously throughout the year.

Additional Admission Requirements

1. A GPA of 2.5 for the last two years of the baccalaureate degree and a combined (verbal and quantitative) GRE score of at least 1000; OR
2. A GPA of 3.0 or greater and a combined (verbal and quantitative) GRE score of at least 900.

Program Requirements

The M.A. degree requires 36 credits of graduate study. Required courses (15 credits) include:

- GEY 5620 (3)
- GEY 5630 (3)
- GEY 6450 (3)
- GEY 6600 (3)
- GEY 6613 (3)

The remaining 21 hours of coursework must be selected from other graduate courses in gerontology.

General Information

While the M.A. program does not have separate tracks, students are advised to select courses in such concentrations as case management, administration, mental health, and research. Students should meet with their advisors to select concentrations appropriate to
their professional goals. Internships are recommended and available for students who need practical experience in the field of aging. Students interested in internships should see the Department’s internship director. Following completion of the necessary coursework there is a comprehensive examination designed to test the student’s knowledge of, and ability to integrate, key concepts and information in the field of gerontology. This examination must be taken and passed by all students in the M.A. program. Students electing the thesis option must successfully pass an oral examination on the thesis. There are no language requirements.

**Advanced Graduate Certificate in Gerontology**

This 15-credit program provides students an understanding of the social, psychological, bio-physiological, and economic forces that interact with the aging process. The certificate is designed for students enrolled in other graduate programs or who already hold a graduate degree.

**Additional Admission Requirements**

1. Must be enrolled as a degree-seeking student in a graduate program at USF or hold a graduate degree.
2. Students enrolled in the certificate program may apply for admission to the M.A. program with the following stipulations: transfer no more than 12 credits of certificate work and meet all requirements for the M.A. program (see above.)

**Program Requirements**

Core (9 hrs.) from the following:

GEY 5620 GEY 5630 GEY 6600 GEY 6613

Specialization (any 6 credits from Gerontology courses at the 5000, 6000, 7000 level)

**Graduate Certificate in Gerontology**

This 18-hour program provides students with an understanding of the social, psychological, bio-physiological, and economic forces that interact with the aging process. The certificate is designed for students who hold a baccalaureate degree.

**Additional Admission Requirements**

1. 3.0 GPA in upper-level undergraduate work
2. Students enrolled in the certificate program may apply for admission to the M.A. program with the following stipulations: transfer no more than 12 credits of certificate work and meet all requirements for the M.A. program (see above.)

**Program Requirements**

Core (12 hrs.) from the following:

GEY 5620 GEY 5630 GEY 6600 GEY 6613

Specialization (any 6 credits from Gerontology courses at the 5000, 6000, 7000 level)
Course Descriptions:

GEY 5620 SOCIOLOGICAL ASPECTS OF AGING (3) Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

GEY 5630 ECONOMICS AND AGING (3) Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.

GEY 5642 PERSPECTIVES ON DEATH AND DYING (3) Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

GEY 6325 SOCIAL POLICY AND PLANNING FOR GERONTOLOGISTS (3) This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.

GEY 6340 HOUSING FOR THE ELDERLY (3) Major issues and aspects of conventional and planned housing for the elderly. Several field trips will be taken.

GEY 6450 GERONTOLOGICAL RESEARCH AND PLANNING (3) Social research and planning methods in the field of gerontology. Directed to the consumers of research findings-person whose positions call for the ability to interpret, evaluate, and apply the findings produced by others. (PR: CI)

GEY 6500 SEMINAR IN PRINCIPLES OF ADMINISTRATION (3) This course deals with management problems and practices in the administration of institutions in the field of aging. Consideration is given to federal and state legislation, the management of people, and fiscal management. (PR: CI)

GEY 6600 HUMAN DEVELOPMENT AND AGING (3) Normal aging, change and basic psychological processes will be examined from a human development perspective. Emphasis will be on middle aged and older adults in relation to Life Cycle Changes and Counseling Approaches. (PR: CI)

GEY 6613 PHYSICAL CHANGE AND AGING (3) Common, normal and pathological physical changes associated with aging will be discussed as they affect behavior. Aspects of physical and mental illness and pharmacology with gerontological relevance will be surveyed.

GEY 6614 PSYCHOPATHOLOGY AND AGING (3) Overview of the full range of mental disorders experienced by older adults, with special emphasis on dementia, depression, and anxiety. Includes in-depth discussions of the DSM-IV diagnostic criteria, epidemiology, and biological, psychological and social factors in the onset and course of mental disorders in older adults.

GEY 6615 PSYCHOPATHOLOGY AND AGING II (3) Course on selected topics in aging and mental disorders, such as Alzheimer's Disease, geriatric depression, and substance abuse and aging. Rpt. with different subject mater. (PR: GEY 6614 or CI)
GEY 6616 MENTAL HEALTH ASSESSMENT OF OLDER ADULTS (3) Designed to provide the mental health counselor with a basic understanding of evaluation principles and the application of assessment approaches to older adults. (PR: GEY 6614 or CI)

GEY 6617 GERONTOLOGICAL MENTAL HEALTH COUNSELING I (3) Examination of mental health treatment modalities and approaches to counseling with older adults. Personality theories and their relationship to counseling will be included emphasizing the development of a treatment plan through the integration of assessment data. (PR: GEY 6614, CI)

GEY 6618 GERONTOLOGICAL GROUP AND FAMILY COUNSELING (3) An advanced course directed at clinical practice with older adults. Appropriate techniques and skills will be integrated with models of psychotherapy, counseling, and personality development. Primary focus will be on intervention with groups, families, and couples. (PR: GEY 6614 or CI)

GEY 6647 ETHICAL AND LEGAL ISSUES IN AGING (3) A consideration of major ethical and legal issues in aging and their implications for policies, priorities, and services.

GEY 6901 DIRECTED READING (1-4) A reading program of selected topics under the supervision of a faculty member. Rpt. to 12 hours. S/U. (PR: CI)

GEY 6910 DIRECTED RESEARCH (1-4) Rpt. to 12 hours. S/U. (PR: CI)

GEY 6934 SPECIAL TOPICS IN GERONTOLOGY (3) Courses on topics such as pre-retirement, mental health, human services organization, and senior center administration. Rpt. with different subject matter to 12 hours.

GEY 6940 FIELD PLACEMENT (1-6) An internship in an agency or organization engaged in planning or administering programs for older people or in providing direct services to older people. S/U. (PR: CI)

GEY 6941 FIELD PLACEMENT IN MENTAL HEALTH (1-6) A highly structured supervised counseling experience providing mental health services to older adults. S/U. (PR: GEY 6614, 6616, and 6617)

History (HTY)

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e-mail address: murray@luna.cas.usf.edu
WebAddress: http://www.lib.usf.edu/spcoll/history/index.html

Chairperson: John Belohlavek
Program Director: William Murray

Faculty: Golfo Alexopoulos, Raymond O. Arsenault, John M. Belohlavek, Giovanna Benadusi, David R. Carr, Cecil B. Currey, Alejandro de la Fuente, Paul Dosal, Kirsten Fischer, Christina Greene, Robert P. Ingalls, Georg H. Kleine, Gary R. Mormino, William M. Murray, Fraser Ottanelli, Kathleen Paul, Edward M. Silbert, Ward Stavig, G. Kelly Tipps, Roy J. Van Neste

Degrees Offered: M.A.

Specializations: See Program Requirements

The Department of History offers the M.A. degree. Members of the graduate faculty in History have earned recognition as teachers, scholars, and contributors to the community.

M.A. in History

Additional Admission Requirements
1. Two letters of reference from professors with whom the candidate has studied (during the last two years of the BA program, if possible).
2. A 2-page statement describing the candidate’s background, purpose for attending graduate school, and career goals.
3. Students who do not have an undergraduate degree in history or those whose coursework is not compatible with their chosen major field may be required to take additional coursework prior to admission to the program.
4. Letters of reference and candidate’s statement must be sent directly to the department (see address, above)

Program Requirements
The Department of History offers both a thesis and a non-thesis Master of Arts degree organized around the following fields:

Field 1: American History to 1877
Field 2: American History since 1877
Field 3: Ancient History
Field 4: Medieval History
Field 5: Early Modern Europe to 1789
Field 6: Modern Europe since 1789
Field 7: Latin America

The thesis program emphasizes preparation for further graduate study. The non-thesis program is designed to meet the needs of those students seeking a terminal degree at the master’s level.
In addition to the general requirements of the University, a candidate is required to complete 36 hours in the following distribution: a 4-hour core course, 16 hours in a major field in history, and 8 hours in a minor field. Students in the thesis program will be expected to complete the remaining 8 hours in thesis credits. Non-thesis degree students must complete the remaining hours of their program in 6000 level regularly scheduled history courses.

Of the 36 hours required for the Master of Arts with thesis, at least 20 must be in formal, regularly scheduled course work. For the Master of Arts without thesis, at least 28 must be in formal, regularly scheduled course work. A minimum of 16 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances, major advisors may approve up to 6 hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core course, HIS 6112, "Analysis of Historical Knowledge" is required of all M.A. students.

A reading proficiency in one foreign language must be demonstrated by students in the thesis degree program. A satisfactory preparation in the core course, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Students with a major field in American History and with a thesis topic that does not require use of a foreign language may substitute quantitative methods for the language requirements. The quantitative methods option will be fulfilled by successful completion with a grade of at least "B" in one of the following courses: ANT 5937; EDF 6407; POS 5736.

Upon admission, M.A. students will select a major professor who will arrange their programs of study. The student, in consultation with the major professor, solicits two other members to serve on a supervisory committee.

Course Descriptions:

**HIS 6112 ANALYSIS OF HISTORICAL KNOWLEDGE** (4) A study of history as a form of knowledge with emphasis on explanatory models and the relationships of social science theory to the problems of historical analysis. (PR: GS, CI)

**HIS 6908 INDEPENDENT STUDY** (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: CI)

**HIS 6914 DIRECTED RESEARCH** (1-19 Var.) ML. Rpt. S/U. (PR: CI)

**HIS 6925 COLLOQUIUM IN HISTORY** (4) Readings and discussions organized around an in-depth examination of selected topics within the fields. Emphasis of the course is on the review of historiographical, methodological, and interpretative advances as they affect the topics under study. Rpt. as topics vary. (PR: CI)

**HIS 6939 SEMINAR IN HISTORY** (4) Research in selected topics within the fields selected by the instructor. Rpt. as topics vary. (PR: CI)

**HIS 6971 THESIS: MASTER'S** (1-19 Var.) Rpt. Z/U. (PR: CI)
Humanities and American Studies (MLA/AMS)

4202 E. Fowler Avenue, CPR 107
Tampa, Fl 33620
(813) 974-2431
e-mail address
WebAddress: http://www.cas.usf.edu/

Chairperson: Silvio L. Gaggi
Program Directors: Ruth Banes (American Studies), Silvio Gaggi (Humanities)

Faculty: Raymond O. Arsenault, Ruth Banes, Daniel Belgrad, Priscilla J. Brewer, Clara B. Cooper, James P. D’Emilio, S. Gaggi; Susan D. Greenbaum, Navita C. James, Hans Juergensen (Emeritus), G.S. Kashdin (Emeritus), E.M. MacKay (Emeritus), Daniel Rutenberg (Emeritus)Jack B. Moore, R.E. Snyder, Amy J. Sparks (Emeritus), N. Yavneh, S.A. Zylstra

Degrees Offered: M.A.

The Department of Humanities and American Studies offers two M.A. degree programs. Both American Studies and Humanities are interdisciplinary. Humanities courses concern the societies and the arts of the cultures of the world. American Studies seeks to understand and explain the multifaceted, pluralistic society and culture of the United States.

Master of Liberal Arts (MLA)
The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Three program options are available: the Liberal Studies Option, though broadly interdisciplinary, focuses on a concept, movement, or idea; the Humanities Option requires a concentration in the Department of Humanities and American Studies; and the Social and Political Thought option.

Program Requirements
Liberal Studies option - Total required hours: (33)
Courses - 30 hours in courses from the approved course list. At least 9 but no more than 12 hours must be taken in a single department. At least 20 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); Thesis Defense.

Humanities option - Total required hours: (33)
Courses - 30 hours in courses from the approved list. 21 hrs. must be in Humanities courses, including HUM 6112, and 9 hrs. in approved outside electives. At least 15 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); Thesis Defense.
Social and Political Thought option--Total required hours: (33)
Course - 30 hours of courses approved by a committee selected by the
student from the program faculty. Eight hours may be at the 4000 level.
Satisfactory completion of a written comprehensive examination
Thesis (3); Thesis Defense.

All options require the student to work closely with an assigned major professor. Prior to
registering for the second semester in the Liberal Studies Sequence, the student must
submit in writing to the Director a signed statement of intent to focus on a particular
concept, idea, theme, or the like. This statement must be approved, dated, and signed by
the Director and made a part of the student's record. Subsequent courses selected for
study are expected to center around this stated focus. Variation from this focus must be
approved by the Director.

Courses may be taken from any of the programs listed below:

- American Studies
- Anthropology
- Art
- Communication
- Criminal Justice
- English
- Geography
- History
- Humanities
- Interdisciplinary Social Science
- Language
- Mass Communications
- Philosophy
- Political Science
- Religious Studies
- Sociology

Specific course listings for each option may be obtained from the MLA office, CPR 363.

M.A. in American Studies (AMS)
The Master of Arts in American Studies offers students the opportunity to study the
immensely complicated social relations and cultural patterns that have unified and
sometimes divided Americans. Students examine popular culture, as well as elite culture,
heroines and heroes, the lives of ordinary people, in addition to recognized historical and
cultural figures.

Additional Admission Requirements
1. Demonstrate a satisfactory knowledge of United States culture and ideas, history,
literature, and social institutions. Students may be required to take extra
undergraduate courses before admission.
2. Students must interview with a departmental advisor.
3. Students must submit three letters of reference to American Studies Graduate
Director, Humanities and American Studies Department.

Program Requirements
Total required hours (33)
1. 12 hours: AMS 6112 AMS 6254, AMS 6805, and AMS 6938
2. 15 hours: To be selected from 5000 or 6000 level courses in American Studies
and/or related departments, such as: English, History, Humanities,
Philosophy, Religious Studies, Sociology, and Women's Studies. No more
than 6 hours from any one department may be credited toward the degree
without written consent from the Graduate Director. Work in AMS 6002,
AMS 6375, AMS 6901, AMS 6915, AMS 6934, and AMS 6940 may be
included.
3. 6 hours: Thesis AMS 6971.

During the semester immediately following completion of required course work, each
student should take a written examination on two areas of concentration, selected after
consultation with the Graduate Director so that they will be relevant to the student's
thesis.
The thesis is an extended research project within a specific area of specialization, culminating in a written academic analysis. Upon completion of the thesis, the subject of which must be determined in consultation with the Graduate Director, the student must schedule an oral defense.

Course Descriptions:

**AMS 6002 AMERICAN LIVES** (3) Open to non-majors. An interdisciplinary approach to the study of autobiography. Examines the relationship between identity and community in classic American autobiographies. Utilizes autobiography as a resource of social and cultural history which provides insights regarding the complex interaction between a life, a mind, and a text. (PR: GS, CI)

**AMS 6156 THEORIES AND METHODS OF CULTURAL STUDIES** (3) This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and American Studies. (PR: Graduate Standing)

**AMS 6254 DECADE IN DEPTH** (3) Open to non-majors. Interdisciplinary analysis of American life during a specific cultural era. Rpt. to 6 hours.

**AMS 6375 THE AMERICAN SOUTH** (3) Open to non-majors. Examines the region since Reconstruction through architecture, art, literature, photography, music, history and interdisciplinary perspectives.

**AMS 6805 MAJOR IDEAS IN AMERICAN CIVILIZATION** (3) Open to non-majors. Investigates the role of one or more influential ideas in American culture, e.g., community, domesticity, democracy, slavery, progressivism, radical reform.

**AMS 6901 DIRECTED READINGS IN AMERICAN STUDIES** (1-3) Open to non-majors. A supervised program of intensive reading. S/U Rpt. to 4 hours. (PR: CI, CC)


**AMS 6934 SELECTED TOPICS** (1-3) Open to non-majors. Variable topics such as American Autobiography, Film in American Culture, and Photography in American Culture.

**AMS 6938 SEMINAR IN AMERICAN STUDIES** (3) Rpt. Open to non-majors. Advanced interdisciplinary research. Topics include Popular Culture, Material Culture, Native American Culture.

**AMS 6940 INTERNSHIP IN AMERICAN STUDIES** (3) A structured, out-of-class learning experience providing first hand, practical training in American Studies-related professional careers. Rpt. up to 6 hours total. S/U. (PR: Majors only)

**AMS 6971 THESIS: MASTER’S** (1-19 Var.) Rpt. S/U.
HUM 6392 TEACHING PRACTICUM IN HUMANITIES (1-6) Required of Teaching Assistants of Humanities courses. Workshops, meetings, and individual conferences treat topics related to teaching interdisciplinary courses focusing on the critical study of literature, music, and the arts. Credits do not count toward the Master of Liberal Arts degree. (GS)

HUM 6412 STUDIES IN THE HUMANITIES OF INDIA (3) Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.

HUM 6414 STUDIES IN THE HUMANITIES OF CHINA (3) Examples from the arts and letters of China; their relationship to Taoism, Confucianism, and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 6415 STUDIES IN JAPANESE ARTS AND LETTERS (3) Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on 20th century Japanese arts and letters.

HUM 6453 STUDIES IN AMERICAN ARTS AND LETTERS I (3) Study of selected works dealing with the development of cultural patterns on the western frontiers and their effects on aesthetic judgement. From 1790 to 1890.

HUM 6456 STUDIES IN AMERICAN ARTS AND LETTERS II (3) Examples from the arts and letters of the U.S.; analyses of their relationships to the concepts of progress and aesthetic judgement. From 1890 to present.

HUM 6465 STUDIES IN LATIN AMERICAN ARTS AND LETTERS (3) Analysis of selected Latin American works of art in their cultural context. Rpt. once with change of content.

HUM 6475 STUDIES IN CONTEMPORARY ARTS AND LETTERS (3) Concentration on major artists and recent trends. Rpt. once with change of content.

HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS (3) Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions, and philosophies. Classical Greek influences on later cultures. Rpt. once with change of content.

HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS (3) Studies in medieval philosophies, visual arts, music, literature, and architecture and their inter-relationships. Rpt. once with change of content.


HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS (3) Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism. Rpt. once with change of content.
HUM 6497 STUDIES IN NINETEENTH CENTURY ARTS AND LETTERS (3) Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century. Rpt. once with change of content.

HMS 6801 THEORIES AND METHODS OF CULTURAL STUDIES (3) This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and the humanities. (PR: Graduate Standing)

HUM 6909 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U.


HUM 6939 SELECTED TOPICS IN HUMANITIES (1-3) Each topic is a course of study in a subject not covered by a regular course. Rpt. with a change of content.

HUM 6940 INTERNSHIP IN HUMANITIES (1-3) A structured, out-of-class learning experience providing first-hand, practical training in Humanities-related professional careers in the community. (PR: Graduate Standing)

HUM 6971 THESIS: MASTERS (1-19) In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.
Interdisciplinary Social Sciences (ISS)

4202 E. Fowler Avenue, FAO 270
Tampa, FL 33620
(813) 974-0983
e-mail address
WebAddress: http://www.cas.usf.edu/

Director: Richard Gagan

Faculty: Spencer Cahill, Cyndi Kasee, Raymond Wheeler, Lorraine Mayfield-Brown

Degrees Offered: No Graduate Degrees are currently offered

Although a graduate degree is not offered, the ISS Program and its faculty have a broad range of interests such as health, metropolitan systems, Native America, and research methods.

Course Descriptions:

**ISS 6184 DEVELOPMENT ETHICS: PRINCIPLES AND PRACTICE (3)** Overview the ethical problems of development, as well as presents the ways in which the problems of development may be investigated. Students are taught qualitative methodological techniques and apply these techniques in fieldwork projects. Open to all Graduate Students.

**ISS 6934 SELECTED TOPICS (1-3)** Interdisciplinary studies with course content dependent on student demand and instructor's interest. Rpt. as topics vary. (PR: CI and senior standing or GS)

**ISS 6900 DIRECTED READING (1-3)** A supervised program of intensive reading of interdisciplinary materials of specific interest. Rpt. (PR: CI and GS)

**ISS 6910 DIRECTED RESEARCH (1-19 Var.)** Rpt. S/U. (PR: CI or GS)
Languages and Linguistics (CLA/FRE/SPA/LIN)

4202 E. Fowler Avenue, CPR 107
Tampa, Fl 33620
(813) 974-2547
e-mail address: languages@nosferatu.cas.usf.edu
WebAddress: http://www.cas.usf.edu/flanguages

Interim Director: C. Eugene Scruggs
Associate Director: Christine M. Probes

Faculty: Gaetan Brulotte, Jacob Caflisch, Sr., John S. Campbell, Carlos J. Cano,
Carol J. Cargill, Roger W. Cole, Maria Esformes, Jose A. Feliciano-Butler, Jeffra
Flaitz, Warren R. Hampton, Domenick Ierardo, L. Anna Motto, Irena A. Nemchonok,
Edward J. Neugaard, J.D. Noonan, Robert C. O’Hara (Emeritus), Victor E. Peppard,
Richard A. Preto-Rodas (Emeritus), Christine Probes, C.E. Scruggs; Rainulf
A. Stelzmann, James C. Tatum, Sonia Wohlmutl, Wei Zhu

Courtesy Faculty: K. Mukherjee, William H. Murray, James F. Strange

Degrees Offered: M.A.

Specializations: M.A. (Classics offered jointly with the University of Florida/French,
Spanish, and Linguistics).

M.A. in French or Spanish

Additional Admission Requirements
Students may apply for admission into the French or Spanish Master’s Programs during
any term. Up to 12 semester hours may be taken as a non-degree seeking student until
admission requirements have been met. Students whose B.A. degrees were in another
field may be required to take some 4000-level courses. Six hours of these may later be counted
toward the M.A., with prior approval of the Graduate Director of the program.
Applicants must have a 3.0 GPA with a minimum score of 800 on the GRE examination,
OR a minimum score of 1000 on the GRE examination.

Program Requirements
1. Reading proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on French
or Spanish and Spanish-American language, literature, and civilization.
This exam is based on a reading list.
3. FOW 6805 Bibliography
4. Course work following one of the plans listed below:
   Plan A 36 hours of graduate courses in one language area - French or
   Spanish. No thesis.
   Plan B 36 hours, of which 27-30 graduate hours must be in one language
   area and 6-9 in another area/department, as approved by the Division
   Director. No thesis.
Plan C 27 semester hours in one language area plus a thesis, with 6 hours of FRE/SPW 6971.

Plan D 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the Graduate Director for French or Spanish. In addition: a thesis, with 6 hours of FRE/SPW 6971.

Special Summer Programs Overseas
The Division of Languages and Linguistics, in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in Brazil, Mexico, France, Spain, Italy, and Costa Rica. For complete details, contact the program advisors or the International Affairs Center.

M.A. in Linguistics
Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Linguistics Program offers two graduate tracks:

1. The Master of Arts in Linguistics (thesis), and

Additional Admission Requirements
1. A minimum of 1000 on the combined verbal and quantitative portions of the GRE test.
2. A "B" average (3.0) on all upper level undergraduate work.
3. Foreign students must score 250 on the TOEFL (600 old) and 55 (250 old) on the TSE or SPEAK.

Students meeting all requirements, but who have not taken the GRE at the time of application, may enroll in courses as a special student pending receipt of acceptable scores. Students interested in graduate study in Linguistics are urged to acquire a language background in their undergraduate programs, regardless of their major field of study. The minor in Linguistics also is recommended; undergraduate course work equivalent to the material covered in LIN 3010 is strongly recommended.

Program Requirements

Thesis: Theoretical Linguistics

I. Core Requirements (18 hours)  LIN 6081 (3)  LIN 6117(3)
   LIN 6322 (3)  LIN 6520 (3)  LIN 6850 (3)  LIN 6715 (3)

II. 9 hours of approved electives.
   A thesis and 6 hours of thesis credit.

Non-Thesis: Applied Linguistics (TESL)

I. Core Requirements (27 hours)
   LIN 5700 (3)  LIN 6081 (3)  LIN 6675 (3)  LIN 6720 (3)  LIN 6748 (3)
   TSL 5371 (3)  TSL 5372 (3)  TSL 5471 (3)  TSL 5525 (3)

II. Six hours of approved electives
III. Additional Requirements 6 hours of internship through enrollment in TSL 6945.

A written and oral comprehensive examination is required for all M.A. students, as is submission of end-of-program portfolio and demonstration of proficiency in a language other than the student's native tongue.
Course Descriptions:

FOL 5906 DIRECTED STUDY (1-3) (PR: FOL 4200 or equiv., CC)

FOW 6805 BIBLIOGRAPHY (1) Research methods. Includes familiarity with major journals and bibliographies, with a practicum. S/U.

Classics - Greek
GRW 5905 DIRECTED READING (1-4) Departmental approval required.

GRW 5934 SELECTED TOPICS (4) Study of an author, movement, or theme of ancient Greece. Open to non-majors.

Classics - Latin
LNW 5900 DIRECTED READING (1-4) Departmental approval required. S/U.

LNW 5934 SELECTED TOPICS (4) Study of an author, movement, or theme. Rpt. to 12 credit hours.

LNW 6325 ROMAN ELEGIAC POETS (3) Readings in Catullus, Propertius, Tibullus. Study of technique and tradition in Roman lyric poetry.

LNW 6655 HORACE (3) Readings in the Odes and Epodes of Horace; study of the Ode’s tradition.

LNW 6665 VERGIL (3) Readings in the Aeneid, the Eclogues, and the Georgics.

LNW 6940 SUPERVISED TEACHING (3) CC.

French
FLE 6829 GRADUATE INSTRUCTION METHODS (1-4) Special course to be used primarily for the training of graduate teaching assistants. Var. Rpt. to a total of 4 hours. (S/U only, PR: CC)

FRE 5425 ADVANCED WRITTEN EXPRESSION (3) Course is designed to give advanced training in free composition in French. (PR: FRE 4421, or equiv.)

FRE 5566 CONTEMPORARY FRANCE (3) An advanced course in French civilization and culture including a study of recent social, economic and political trends. Text and discussions in French. (PR: FRE 3500 or equiv or GS)


FRW 5222 CLASSICAL PROSE AND POETRY (3) Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau. (PR: FRW 4101)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRW 5226</td>
<td>20TH CENTURY POETRY AND THEATRE (3)</td>
<td>Valery, Claudel, Anouilh, Montherlant, Sartre, Ionesco. (PR: FRW 4101)</td>
</tr>
<tr>
<td>FRW 5286</td>
<td>THE 20TH CENTURY NOVEL (3)</td>
<td>Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet. (PR: FRW 4100)</td>
</tr>
<tr>
<td>FRW 5314</td>
<td>CLASSICAL DRAMA (3)</td>
<td>Corneille, Moliere, and Racine. (PR: FRW 4101)</td>
</tr>
<tr>
<td>FRW 5415</td>
<td>LITERATURE OF THE MIDDLE AGES (3)</td>
<td>Major genres, including epics, Arthurian romances, drama, and lyric poetry. Reading in modern French translation. (PR: FRW 4101 or 4101)</td>
</tr>
<tr>
<td>FRW 5425</td>
<td>LITERATURE OF THE RENAISSANCE (3)</td>
<td>A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets. (PR: FRW 4100 or 4101)</td>
</tr>
<tr>
<td>FRW 5445</td>
<td>18TH CENTURY LITERATURE (3)</td>
<td>The classical tradition and the new currents of thought in the Age of Enlightenment. (PR: FRW 4100)</td>
</tr>
<tr>
<td>FRW 5528</td>
<td>PRE-ROMANTICISM (3)</td>
<td>The precursors of romanticism. Emphasis on Rousseau, Bernardin de St. Pierre, Chenier, and Chateaubriand. (PR: FRW 4100 or 4101)</td>
</tr>
<tr>
<td>FRW 5535</td>
<td>ROMANTICISM AND EARLY REALISM (3)</td>
<td>A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac. (PR: FRW 4101)</td>
</tr>
<tr>
<td>FRW 5556</td>
<td>NATURALISM ADN REALISM (3)</td>
<td>A detailed study of realism and naturalism with emphasis on Flaubert, zola, les Goncourt, Maupassant, and Daudet. (PR: FRW 4100 or 4101)</td>
</tr>
<tr>
<td>FRW 5934</td>
<td>SELECTED TOPICS (1-3)</td>
<td>Study of an author, movement, or theme. (PR: Upper-level or GS)</td>
</tr>
<tr>
<td>FRW 6315</td>
<td>SEMINAR ON CLASSICAL DRAMA (3)</td>
<td>An in depth study of the works of one or more of the following dramatists: Corneille, Racine, or Moliere.</td>
</tr>
<tr>
<td>FRW 6405</td>
<td>OLD FRENCH (3)</td>
<td>An introduction to the Old French language and literature. Readings from representative texts.</td>
</tr>
<tr>
<td>FRW 6938</td>
<td>GRADUATE SEMINAR (3)</td>
<td>Topics vary. Rpt.</td>
</tr>
</tbody>
</table>

**German**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GER 5605</td>
<td>GOETHE (3)</td>
<td>Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm, Meister, Westostlicher, Divan.</td>
</tr>
<tr>
<td>GEW 5606</td>
<td>FAUST (3)</td>
<td>Sources, form, content, and literary significance of Urfaust and Faust.</td>
</tr>
<tr>
<td>GEW 5615</td>
<td>SCHILLER (3)</td>
<td>Selected dramas, philosophical, and aesthetical writings.</td>
</tr>
<tr>
<td>GEW 5934</td>
<td>SELECTED TOPICS (3)</td>
<td>(1-3) Strudy of an author, movement, or theme. (PR: Upper-level or GS)</td>
</tr>
</tbody>
</table>
GER 5845 HISTORY OF THE GERMAN LANGUAGE (3) A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

GER 6060 GERMAN FOR READING (3) Designed to provide a reading ability in German that will support research in other disciplines.

GER 6908 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CC)

GEW 5475 20TH CENTURY LITERATURE TO 1945 (3) A study of major styles in German literature from 1900 to WWII with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5489 20TH CENTURY LITERATURE 1945 TO PRESENT (3) Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

GEW 5515 THE ENLIGHTENMENT (3) Selected dramas and critical writings by Lessing, Wieland, Kant.

GEW 5545 ROMANTICISM (3) Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.

GEW 5555 REALISM (3) Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.

Italian


Linguistics

LIN 5700 APPLIED LINGUISTICS (3) Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIN 6018 TOPICS IN THEORETICAL LINGUISTICS (3) Offerings will include current issues in any area of linguistic theory.

LIN 6081 INTRODUCTION TO GRADUATE STUDY IN LINGUISTICS (3) Required of all M.A. candidates. An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its subdisciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.
LIN 6117 HISTORY OF LINGUISTIC THOUGHT (3) Survey of the development of language study in the West from Antiquity to the present. Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies. (PR: CC)

LIN 6129 STUDIES IN ENGLISH LANGUAGE AND LINGUISTICS (3) An advanced study of the origin, historical development and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.

LIN 6322 PHONOLOGICAL DESCRIPTION (3) Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. (PR: LIN 6520, or CI)

LIN 6351 THE SOUND SYSTEM OF ENGLISH (3) Training in applied phonetic transcription of American English speech; analysis and description of major phonological processes and dialect features of American English, with practice in teaching pronunciation. (PR: LIN 5700 or EQ)

LIN 6571 STRUCTURE OF A SPECIFIC LANGUAGE (3) Analysis of the linguistic structures of both common and uncommon languages. Rpt. to 6 hours with change in content/title.

LIN 6601 SOCIOLINGUISTICS (3) Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.

LIN 6675 THE GRAMMATICAL STRUCTURE OF AMERICAN ENGLISH (3) Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.

LIN 6715 LANGUAGE ACQUISITION (3) A survey of current research and theory in the processes of normal language acquisition and development. (PR: LIN 3010, LIN 4377 or CI)

LIN 6720 SECOND LANGUAGE ACQUISITION (3) Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both children and adults. (PR: LIN3010, 5700 and CC)

LIN 6748 CONTRASTIVE ANALYSIS (3) Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages. EA and IA added for contrast with CA. (PR: LIN 3010 or LIN 5700 and CC).

LIN 6908 INDEPENDENT STUDY (1-19 Var.) Independent study in which the student must have a contract with an instructor. Rpt. S/U. (PR: CC)

LIN 6910 DIRECTED RESEARCH (1-10 Var.) Rpt. S/U. (PR: GR. ML, CC)

LIN 6932 SELECTED TOPICS (1-4) Content will depend upon instructor’s interests and students’ needs. Such topics and neurolinguistics, bilingualism, and discourse analysis may be taught. (PR: CC)
LIN 6940 GRADUATE INSTRUCTION METHODS (1-4) Special course to be used primarily for the training of teaching assistants. Var. Rpt. to a total of 4 credits. (S/U only.)


TSL 5321 ESOL STRATEGIES FOR CONTENT AREA TEACHERS (3) Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated.

TSL 5371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3) Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5372 ESOL CURRICULUM AND INSTRUCTION (3) Analysis of the methods of teaching English pronunciation and structure to speakers of other languages. (PR: TSL 5371 and CC)

TSL 5471 LANGUAGE TESTING (3) Lecture course on testing English as a second/foreign language. (PR: TSL 5371 and CC)

TSL 5525 CROSS CULTURAL ISSUES IN ESL (3) Lecture course on cultural issues in Teaching English as a Second/Foreign language. (PR: LIN 5700)

TSL 6945 INTERNSHIP (1-6) Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings. Rpt. up to 6 hours. S/U. (PR: TSL 5371 and TSL 5372)

Spanish

SPN 5525 MODERN SPANISH AMERICAN CIVILIZATION (3) Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish. (PR: SPN 3520)

SPN 5567 MODERN SPANISH CIVILIZATION (3) Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic, and political trends. Texts and discussions in Spanish. (PR: SPN 3500 or equiv. GS standing, CC)

SPN 6795 PHONOLOGY AND DIALECTOLOGY (3) A study of the Spanish sound system. (PR: SPN 3300)

SPN 6845 HISTORY OF THE SPANISH LANGUAGE (3) Traces the development of Spanish from its Latin origins to the present.

SPN 6940 GRADUATE INSTRUCTION METHODS (1-3) Special course to be used primarily for the training of teaching assistants. Var. Rpt. to a total of 3 credits. S/U.

SPW 5135 COLONIAL SPANISH AMERICAN LITERATURE (3) Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period. (PR: SPW 4131)
SPW 5355 SPANISH AMERICAN DRAMA AND POETRY (3) Major writers of all genres. Emphasis on modern writers. (PR: SPW 4131)

SPW 5387 SPANISH AMERICAN PROSE (3) Emphasis on the gaucho theme and contemporary prose fiction. (PR: SPW 4131)

SPW 5388 GOLDEN AGE POETRY AND DRAMA (3) Lope de Vega, Alarcon, Tirso Calderon, and others. (PR: SPW 4100)

SPW 5405 MEDIEVAL LITERATURE (3) Course gives an in depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina. (PR: SPW 4100 or equiv.)

SPW 5465 19th CENTURY LITERATURE (3) Appreciation of the romantic and realist periods in Spanish literature. (PR: SPW 4101)

SPW 5605 CERVANTES (3) Cervantes’ masterpiece Don Quijote de la Mancha.

SPW 5725 THE GENERATION OF 1898 (3) The major figures of the period and their main followers. (PR: SPW 4101)

SPW 5726 VANGUARD LITERATURE 1918 AND 1936 (3) A study of Vanguard literature in Spain between 1918 and 1936. (PR: SPW 4101)

SPW 5934 SELECTED TOPICS (3) Study of an author, movement, or theme. (PR: Upper-level or GS)

SPW 6428 GOLDEN AGE NOVEL (3) Prose-fiction of the Renaissance and Golden Age.

SPW 6485 POST CIVIL WAR LITERATURE (3) The drama and novel since 1936. (PR: SPW 4101)

SPW 6775 CARIBBEAN LITERATURE (3) Emphasis on contemporary Cuban and Puerto Rican literature. (PR: SPW 4131)


SPW 6936 GRADUATE SEMINAR (3) Topics vary. Rpt. (PR: CC)

Library and Information Science (LIS)

4202 E. Fowler Avenue, CIS 1040
Tampa, Fl 33620
(813) 974-
e-mail address: swohlmuth@chumal.cas.usf.edu
WebAddress: http://www.cas.usf.edu/

Chairperson and Program Director: Vicki L. Gregory

*Visiting Professor

Degrees Offered: M.A.

The M.A. program in Library and Information Science has been accredited by the American Library Association since 1975. Students are prepared to assume a wide variety of service and leadership positions in libraries and information centers.

The mission of the School of Library and Information Science is to educate professionals who will serve the information needs of a culturally diverse, technological society. In pursuit of this mission, the School and its graduates will apply current standards and advance future principles for the organization, management, and use of the world's recorded knowledge, and will provide leadership in advocating public policies that foster the precepts of intellectual freedom and equitable access to information.

The School carries out its mission by a) educating information professions from diverse backgrounds to assume a wide variety of service and leadership roles in a multicultural society; b) creating, synthesizing and disseminating knowledge; and c) providing services that promote the advancement of the library and information profession.

M.A. in Library and Information Science

Additional Admission Requirements

1. A minimum undergraduate GPA of 2.5 in upper division courses and a verbal-quantitative combined score of 1000 or higher on the General Test of the GRE; OR
2. A minimum GRE score of 800 with an undergraduate GPA of 3.0 or higher in upper division work; AND
3. Each applicant must submit a typewritten or word-processed statement expressing personal reasons for wanting to pursue graduate study in librarianship.
Program Requirements

A minimum of 39 semester hours is required for the Master's degree program. Students must maintain an average of "B" or better and no more than two grades of "C" will be accepted. Transfer credit from other recognized graduate schools is limited to six semester hours taken within the last five years with grades of "B" or better. All transfers must be approved by the candidate's faculty advisor. Transfer credits must be posted to a student's permanent record no later than one full term prior to graduation.

Required Courses  Four core courses are required: LIS 5404; 6271; 6603; 6735 or 6725, plus a planned program of electives developed for each student as approved by the advisor.

Courses Outside the School  Degree-seeking students are permitted to enroll in courses outside the School of Library and Information Science when, in the context of the development of a purposeful program, an interdisciplinary approach seems appropriate. Students must obtain the approval of their major professor.

Comprehensive Examination  Students must pass a written comprehensive examination, and are advised to take the exam in their last or second to last semester while enrolled for a minimum of two credit hours during the semester in which they take the comprehensive examination.

The Florida School Media Certification Examination will be accepted in lieu of the School's comprehensive examination for those completing course requirements for the school media certification. Proof of passing the examination must be submitted before the scheduled comprehensive examination in the semester the student plans to graduate. The School conducts comprehensive examinations only in the spring and fall semesters.

ALA-USF and SLA-USF

These are student chapters of the American Library Association and Special Libraries Association linked with the School of Library and Information Science and is open to all members of the University community interested in librarianship.

Both provide programs and guest speakers of interest to the campus community, maintain several list serves, and publish a newsletter for its members. These organizations are the voice of students in the school, and members of the associations are included on committees within the School.

Course Descriptions:

LIS 5268 MICROCOMPUTER APPLICATIONS IN LIBRARY AND INFORMATION CENTERS (3) Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.

LIS 5315 INSTRUCTIONAL GRAPHICS (3) Theoretical aspects, planning and production of instructional graphic materials. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV IN SCHOOLS AND LIBRARIES (3) Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.
LIS 5404 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCES (3) Introduction to the study of library service; history; organization; specialized literature; outstanding leaders; current trends, issues, and problems. Place of the library in society with its contributions to that society.

LIS 5937 SELECTED TOPICS IN LIBRARY STUDIES (1-4) Covers topics in such areas as collection development, reference and technical services, and administration.

LIS 6110 HISTORY OF LIBRARIES (3) Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.

LIS 6111 HISTORY OF CHILDREN'S LITERATURE (3) Historical bibliographical survey of imaginative and information literature for children.

LIS 6206 ADULT SERVICES IN LIBRARIES (3) Traditional and innovative services for adults in public and other types of libraries, including those for special groups, such as the aging, handicapped, and institutionalized. (PR: LIS 6511 or CI)

LIS 6212 READING GUIDANCE PROGRAMS IN LIBRARIES AND CLASSROOMS (3) Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills materials and methods for guidance of reading, listening, and viewing.

LIS 6225 STORYTELLING (3) Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, material suitable for use and audience reaction. (PR: LIS 6585 or CI)

LIS 6260 INFORMATION SCIENCE IN LIBRARIANSHIP (3) Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related information technologies, including indexing and abstracting, and their applications to the field of librarianship.

LIS 6271 RESEARCH METHODS IN LIBRARY AND INFORMATION SCIENCE (3) Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to evaluate and plan research studies relating to library and information science. (PR: LIS 5404, 6603 and LIS 6725 or 6735)

LIS 6303 PREPARING INSTRUCTIONAL MEDIA (3) Fundamentals of preparing and using audiovisuals as they relate to the communication process; basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.

LIS 6402 ADVANCED LIBRARY ADMINISTRATION (3) Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to determine staff effectiveness; preparation of staff manuals; problems of special classes of library workers, such as volunteers and students.
LIS 6409 INTRODUCTION TO LIBRARY ADMINISTRATION (3) Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies, role plays, and in-basket exercises.

LIS 6432 SEMINAR IN ACADEMIC LIBRARIES (3) Identification of problems and critical examination of methods in administrative areas of technical, student, and teaching the staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries. (PR: LIS 6409 or CI)

LIS 6445 SEMINAR IN PUBLIC LIBRARIES (3) Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development. (PR: LIS 6409 or CI)

LIS 6455 THE ORGANIZATION AND ADMINISTRATION OF THE SCHOOL MEDIA CENTER (3) Media quarters, facilities, collections, equipment, and services. Principles of organization and administration of media programs in elementary and secondary schools. Field trips to area media centers required.

LIS 6463 LIBRARY NETWORKS AND SYSTEMS (3) Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding, and legislation.

LIS 6464 LIBRARY SYSTEMS ANALYSIS AND PLANNING (3) Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.

LIS 6472 SEMINAR IN SPECIAL LIBRARIES (3) Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization, and services in special libraries. (PR: LIS 6409 or CI)

LIS 6473 LAW LIBRARIANSHIP (3) All aspects of law librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields. Field trip may be required. (PR: LIS 6603 or CI)

LIS 6475 HEALTH SCIENCES LIBRARIANSHIP (3) All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers. Field trip may be required. (PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735, or CI)

LIS 6511 COLLECTION DEVELOPMENT AND MAINTENANCE (3) Developmental approach to building library collections of both print and non-print materials. Emphasis upon evaluation, selection, and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired. (PR: LIS 6603 or CI)

LIS 6542 THE CURRICULUM AND INSTRUCTIONAL TECHNOLOGY (3) Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.
LIS 6565 BOOKS AND RELATED MATERIALS FOR YOUNG ADULTS (3) Young adult materials for use in secondary school libraries, young adult sections of public libraries, and other institutions serving youth. Equal emphasis upon (1) selection principles and bibliographical sources, as well as upon (2) utilization in terms of service to the young adult.

LIS 6585 MATERIALS FOR CHILDREN (3) Examination of materials for all institutions in which children are served; school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilizations.

LIS 6603 BASIC INFORMATION SOURCES AND SERVICES (3) An examination of the basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.

LIS 6609 ONLINE INFORMATION SYSTEMS AND SOURCES (3) Principles of online searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on research experience. (PR: LIS 6260, LIS 6603, or CI)

LIS 6610 INFORMATION SOURCES AND SERVICES IN THE HUMANITIES (3) Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in reference service. (PR: LIS 6603 or CI)

LIS 6620 INFORMATION SOURCES AND SERVICES IN THE SOCIAL SCIENCES (3) Consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems in reference service. (PR: LIS 6603 or CI)

LIS 6630 INFORMATION SOURCES AND SERVICES IN SCIENCE AND TECHNOLOGY (3) Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service. (PR: LIS 6603 or CI)

LIS 6661 GOVERNMENT DOCUMENTS (3) The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.

LIS 6724 CLASSIFICATION AND CATALOGING OF NON-BOOK MATERIALS (3) Principles and practices in cataloging and organizing non-book materials. (PR: LIS 6725, 6735 or CI)

LIS 6725 ORGANIZATION OF KNOWLEDGE I (3) Principles of the organization of knowledge emphasizing descriptive cataloging, including the MARC format, the use of LSCSH and the Library of Congress classification, and searching of the OCLC Online Union Catalog.

LIS 6735 TECHNICAL SERVICES IN SMALL LIBRARIES (3) Covers aspects of technical services including acquisitions, cataloging, and circulation systems as they relate to school media centers, small public libraries, and information centers. Automation is emphasized in all aspects of the course.
LIS 6745 ORGANIZATION OF KNOWLEDGE II (3) Introduction to the practice in using selected schedules of Library of Congress Classification System and the Library of Congress Subject Heading List; changing policies and procedures in cataloging and an introduction to the use of the MARC format for inputting cataloging data into machine readable files. (PR: LIS 6725)

LIS 6906 INDEPENDENT STUDY (1-4) S/U. (PR: 20 hours in program. CI)

LIS 6946 SUPERVISED FIELD WORK (3) Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience. (PR: CI)
Marine Science (MSC)

4202 E. Fowler Avenue, MSL 119
Tampa, FL 33620
(813) 553-1130
e-mail address: vanvleet@marine.usf.edu
WebAddress: http://www.marine.usf.edu

Chairperson: Peter Betzer
Program Director: Edward Van Vleet


*Distinquished Research Professors

Degrees Offered: M.S., Ph.D.

Specializations: Biological oceanography, chemical oceanography, geological oceanography, and physical oceanography

The Department of Marine Science (DMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 26 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and departmental facilities is available from the department upon request.

The department’s location on St. Petersburg’s Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The department’s principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Department of Environmental Protection (DEP). A recently completed research building shared by DMS and FMRI houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of DMS graduate students.
Additional Admission Requirements for M.S. and Ph.D. Degrees

1. Deadline: Application materials must be received by June 1 for Fall Admission and by October 15 for Spring Admission.

2. A Baccalaureate degree in Biology, Chemistry, Geology, Physics, Mathematics, Engineering, Marine Science, or Oceanography, with a minimum of 2 semesters (or equivalent) of course work in each of the first five disciplines (e.g., Introductory Biology, General Chemistry, Physical and Historical Geology, General Physics, and Differential and Integral Calculus) generally provides adequate background for undertaking graduate studies in Marine Science.

3. A student with exceptional qualifications may be accepted to work directly toward the Ph.D. without first earning the M.S. degree. However, in most cases, a master’s degree in one of the disciplines listed above will be a prerequisite for Ph.D. studies.

4. Those with such degrees who have an upper-level undergraduate GPA of 3.0 or better and a combined (Verbal and Quantitative) GRE score of 1100 or better are encouraged to apply for either the M.S. or the Ph.D. program, as appropriate. Students must submit official transcripts of grades and GRE scores. International students must also submit TOEFL scores.

5. Three letters of recommendation solicited by the applicant must be sent directly to the dept., as well as


7. Applications incomplete by the review dates will be reviewed, but may be updated to the next semester (Fall or Spring only) at the student’s request.

8. In addition to the standards noted above, research interests of the prospective student and the availability of suitable laboratory space and equipment will be considered by the Admissions Committee.

Financial Assistance
The department has graduate fellowship and assistantship funds, as well as tuition waivers. In addition, many faculty hire students to work part time on research grants. Those in need of financial support are urged to have their applications completed by February 15. Awards of scholarships and assistantships generally are announced by April 15.

M.S. in Marine Science

Program Requirements
A committee, consisting of a major advisor and at least 2 other members of the graduate faculty, will be appointed to supervise and guide the program of each student. Students must complete a minimum of 32 credits under the following areas:

1. Core courses completed with a grade of “B” or better:
   OCB 6050  OCC 6050  OCG 6051  OCP 6050

2. 6 credits of OCE 6971

Students must also complete a thesis and pass a final oral examination conducted by members of the student’s advisory committee.
Ph.D. in Marine Science

Program Requirements
A committee, consisting of a major advisor and at least 4 other members of the graduate faculty, is appointed to supervise and guide the program of the candidate. One member shall be from a science department outside Marine Science. In addition to University requirements, students must complete

1. A core program consisting of OCB 6050, OCC 6050, OCG 6051, and OCP 6050 with a grade of “B” or better,
2. The “Tools of Research” requirement consisting of proficiency in one foreign language and one other skill directly relevant to the candidate’s area of study,
3. A qualifying exam consisting of a written and oral portion. A student must receive a passing vote on the qualifying exam from at least 4 committee members before admission to Ph.D. candidacy.
4. A minimum of 16 credits of OCE 7980. Following admission to candidacy, the student must enroll in OCE 7980 when engaged in research, data collection, or writing activities relevant to the dissertation. The student is required to accumulate a minimum of 6 credits during each previous 12 month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.
5. A dissertation, and

Course Descriptions:

OCB 6050 BIOLOGICAL OCEANOGRAPHY (3) Study of life in the oceans, its rates and processes, and its interaction with the physical and chemical environment. Lec. (PR: GS or CI)

OCB 6567 PHYTOPLANKTON ECOLOGY (3) An introduction to the physiology and ecology of marine phytoplankton. Emphasis will be on those variables and interactions that regulate photosynthesis, production, nutrient kinetics and regeneration, growth, spatial distribution, losses, and succession. (PR: B.S. in Biology, OCB 6050, or CI)

OCB 6646 MARINE ZOOGEOGRAPHY (3) The geographical distribution of animals in the marine environments of the world including the major habitats of the benthic and pelagic realms. Studies of the relationships between distributional and evolutionary patterns. (PR: B.S. in Biology, OCB 6050, or CI)

OCB 6666 ECOLOGICAL PHYSIOLOGY (3) The study of physiological mechanisms that enable organisms to live in their environment, and deal with changes in the environment. Coursework is focused on aquatic ecosystems. Topics include osmotic and ionic regulation, nitrogen excretion, feeding and digestion, respiration, temperature, and energetics. Lab separate. (PR: B.S. in Biology, 1 year general and Organic Chemistry, OCB 6050, or CI).
OCB 6931 SPECIAL TOPICS IN ICHTHYOLOGY (1-3) Presentation and discussion of ichthyological topics from the primary literature. The objectives of this course are: (1) to review and discuss the primary literature on ichthyological topics, both current and historical; (2) to provide a forum in which students can develop discussion skills; (3) to identify, through examination of the literature, areas of needed research; (4) to provide means by which graduate students can receive formal course instruction in a non-lecture format. S/U only. (PR: GS or CI)

OCC 6050 CHEMICAL OCEANOGRAPHY (3) The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, organic matter, and stable and radioactive isotopes. Lec (PR: CHM 2046 and GS or CI)

OCC 6057 METHODS IN CHEMICAL OCEANOGRAPHY (1) An intensive study of the use and limitations of field and laboratory equipment that is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater. (PR: OCC 6050 or CI)

OCC 6067 MARINE POLLUTION (3) Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radioactivity, petroleum, pathogens, and thermal pollution including functional and physiological responses of marine organisms. (PR: OCC 6050 or CI)

OCC 6111C APPLICATIONS OF GAS CHROMATOGRAPHY AND MASS SPECTROMETRY IN MARINE SCIENCE (3) Analytical techniques of high resolution gas chromatography and combined gas chromatography-mass spectrometry are applied to problems in Marine Science. Theoretical aspects of the techniques are covered in lectures, while detailed experimental procedures are taught and practiced in the laboratory. (PR: OCC 6050 and CI)

OCC 6216 MARINE ORGANIC CHEMISTRY (3) Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers. (PR: B.S. in Biology or Chemistry, Biochemistry, OCC 6050 or CI)

OCC 6418 PETROLEUM GEOCHEMISTRY (3) An investigation of the geochemical aspects of petroleum, the use of molecular biomarkers to investigate petrochemical and geochemical process, and petroleum prospecting.

OCE 6908 INDEPENDENT STUDY (1-10 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U.

OCE 6934 SELECTED TOPICS IN OCEANOGRAPHY (1-3) Special topics in Biological, Chemical, Geological, and Physical Oceanography. (PR: CI)


OCE 6971 THESIS: MASTER'S (1-19 Var.) Rpt. S/U (PR: CI, GR, ML)


OCE 7980 DISSERTATION: DOCTORAL (1-19 Var.) S/U (PR: Admission to Candidacy, CI)

OCG 6051 GEOLOGICAL OCEANOGRAPHY (3) Marine geology including plate tectonics; coastal, shelf and pelagic sedimentation; geochemical cycling; and sedimentary history of the ocean basins. Lec (PR: GS or CI)

OCG 6075 METHODS IN GEOLOGICAL OCEANOGRAPHY (1) Description and application of the modern techniques used to investigate Marine Geology and Geophysics. (PR: OCG 6051 or CI)

OCG 6080 PLATE TECTONICS (3) An overview of the Plate Tectonic theory, including such topics as: geometry of Plate Tectonics, tectonics on a sphere, past plate motions, seismology, the trenches, oceanic gravity, geochronology, heat flow, oceanic lithosphere, ridges, transforms, trenches, oceanic islands, and continental lithosphere.

OCG 6086 GEOLOGY OF CONTINENTAL MARGINS (3) Analysis of tectonic, structural and stratigraphic development and general geologic history of the major types of continental margins. Includes interpretation of seismic data. (PR: B.S. in Geology, OCG 6051, or CI)

OCG 6356C STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3) Study of seismic reflection data for the purpose of determining structural and sedimentological development, facies distribution, and general geological history of stratigraphic packages. Course includes fundamentals of seismic reflection and depositional sequence/seismic facies analyses. (PR: B.S. in Geology, OCG 6051, or CI)

OCG 6453 GEOCHEMISTRY OF MARINE SEDIMENTS (3) General survey course of the mineralogy, chemical composition, physical properties and origin of marine sediments. Topics include the transport, deposition, and burial diagenesis of organic matter and carbonate, aluminosilicate and silica minerals. Theoretical and practical aspects of x-ray diffraction. (PR: BA in Chemistry or Geology or CI)

OCG 6455 MARINE ISOTOPE GEOCHEMISTRY (3) Study of stable and radioactive isotope variations in the marine environment and the use of these variations as tracers and in determining ages, rates and paleoclimatic conditions. (PR: Chemical Oceanography or CI)

OCG 6551C SCANNING ELECTRON MICROSCOPY: THEORY AND TECHNIQUE (4) Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyzer. Emphasis is on independent operation of the instruments, preparation techniques for specimens, and interpretation of results. (PR: GS, one year Physics and Chemistry, or CI)
OCG 6656C MARINE MICROPALAEONTOLOGY (4) Introduction to the microscopic marine fauna and flora found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils. (PR: B.S. in Geology or Biology, OCG 6051, or CI)

OCG 6664 PALEOCEANOGRAPHY (3) The study of the development of the ocean system through geologic history, including tectonic framework, sea level history, paleoclimatology, paleocirculation within the ocean basins, and the evolution of marine biota. Not Rpt. S/U. (PR: OCB 6050, OCC 6050, OCG 6051, and OCP 6050, or CI)

OCG 6666 CARBONATE DEPOSITIONAL SYSTEMS (3) In-depth presentation of production, transport, and accumulation of carbonate sediments on platforms and shelves. Characteristics of carbonate sediment type, primary environment controls, and relationships to surrounding facies will be presented. Available to non-majors. (PR: BA in Geology or CI)

OCG 6668 EVOLUTION AND ECOLOGY OF REEFS (3) Advanced course in ecology and evolution of reef communities. Topics include environmental controls on reef development, basic components of modern reef communities, and how those components have changed through geologic time. (PR: OCB 6050 and OCG 6051 or CI)

OCP 6050 PHYSICAL OCEANOGRAPHY (3) The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec. (PR: Diff/int. calculus, General Physics, and GS or CI)
Mass Communications (COM)

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e-mail address: mcom@chuma.cas.usf.edu
WebAddress: http://www.cas.usf.edu/mass_com/index.html

Chairperson: Edward Jay Friedlander
Program Director: Barbara K. Petersen


Degrees Offered: M.A.

Specializations: Journalism Studies, Mass Communication Studies, Public Relations Studies

The M.A. degree program in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications. The program offers one degree, the Master of Arts in Mass Communications.

M.A. in Mass Communications

Additional Admission Requirements
1. Three supportive letters of recommendation from qualified persons familiar with applicant's potential for success in this program.
2. A statement of intent for the specific track. Include academic and professional background, research interests, and how you intend to apply the degree.
3. For Journalism Studies track: three examples of professional or academic writing.
4. "Rolling admissions" are conducted for all future semesters during the Fall and Spring semesters each academic year.

Program Requirements
The Journalism Studies track emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues. The Mass Communication Studies track emphasizes the theoretical principles and research methods of mass communications. The Public Relations Studies track emphasizes public relations management and social science research.
Journalism Studies
This program, housed on USF's St. Petersburg campus, requires 36 hours of course work, including either a thesis for 6 credit hours or a professional project for 3 credit hours. As an option, students may designate an area of specialization and take up to 15 hours through other departments of the university. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute for Media Studies, adjacent to the St. Petersburg campus.

Mass Communication Studies
This program requires 36 hours of course work, including 6 hours of thesis. At least twenty-four hours are taken in the School of Mass Communications. The remaining 9-12 hours may be taken in graduate-level courses offered in other departments of the University.

Public Relations Studies
This program requires 36 hours of course work, including 6 hours of thesis, 9 hours of the mass communications core, 9 hours of the public relations core, 3 hours in organizational communication studies, and 9 hours of electives.

Students in all three tracks are required to take a comprehensive written examination after they have completed at least 21 hours of mass communications course work, including the required courses for each track of study.

Course Descriptions:

JOU 5105 NEWSWRITING AND EDITING (3) Introduction to the basics of gathering, writing and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news. (PR: CC)

JOU 5305 EXPLORATIONS IN NEWSWRITING (3) Explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. Course goes beyond traditional practices of reporting and writing news stories. (PR: CC)

JOU 6107 NEWS COVERAGE OF PUBLIC LIFE (3) Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues. (PR: CC)

JOU 6122 REPORTING: METHODS AND PERSPECTIVES (3) Instruction and practice in computer-assisted reporting, social science research, interviewing, data-document research, observational techniques, and other methods of news gathering. (PR: CC)

JOU 6191 SEMINAR: CONTEMPORARY ISSUES IN JOURNALISM (3) A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher. (PR: CC)

JOU 6707 STUDIES IN PRESS CRITICISM (3) A study of the principles and methods of journalism and the performance of its practitioners from a multi-disciplinary perspective of critical analysis. (PR: CC)
MMC 6202 MASS COMMUNICATIONS ETHICS (3) An introduction to fundamental ethical principles and an application of those principles to a variety of situations in journalism, broadcasting, advertising, and public relations. (PR: CC)

MMC 6306 INTERNATIONAL COMMUNICATIONS SEMINAR (3) Mass Communications as national and international systems; flow of the news, international news communications networks; satellite communications; overseas activities of American media interest; international propaganda; communication and national development; international media organizations and their activities. (PR: CC)

MMC 6401 MASS COMMUNICATION THEORY (3) The study of mass communication theories, structures, influences, and their relationships to American institutions. (PR: CC)

MMC 6421 RESEARCH METHODS IN MASS COMMUNICATIONS (3) The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communications. Emphasis in quantitative methods on experimental and survey research, statistical analysis, and evaluation of data. Rpt. to 9 hours. (PR: CC)

MMC 6608 PUBLIC OPINION AND THE MASS MEDIA (3) The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communications. (PR: CC)

MMC 6612 SEMINAR: LAW AND THE MASS MEDIA (3) Interrelationships of the media and government at the judicial, executive and legislative levels. Focus is on legal limitations and privileges of the media; theory and philosophy of the First Amendment; research procedures in court and administrative agency documents. (PR: CC)

MMC 6900 DIRECTED READING IN MASS COMMUNICATIONS (1-3) Readings in specialized areas of Mass Communications as agreed to by the instructor and the student by contract. Rpt. up to 3 hours. S/U. (PR: CC)

MMC 6910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3) Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum. Rpt. up to 3 hours. S/U. (PR: CC)

MMC 6920 INTRODUCTION TO MASS COMMUNICATION RESEARCH (3) Introduction to the aims and methodologies of graduate study in Mass Communications, its development and relationship to the arts and sciences, and the relationship of the scholarly aspects of media studies to professional media practice; bibliographical resources, and overview of research methods and scholarly style. (PR: CC)

MMC 6936 SELECTED TOPICS IN MASS COMMUNICATIONS (3) Courses designed to meet current, specific topics of interest to students and instructors. Rpt. up to 9 hours as topics change. (PR: CC)

MMC 6945 PROFESSIONAL PRACTICUM (3) Practicum will consist of placement with a media-related organization selected by the student and approved and supervised by the graduate advisor. S/U. (PR: 12 graduate hours in Mass Communications, CC)
MMC 6950 NON-THESIS PROJECT (3) Completion of a major project under supervision. Topic will be selected according to student’s needs and interests. (PR: CC)

MMC 6971 THESIS: MASTER'S (1-19 Var.) Rpt. up to 6 hours. S/U. (PR: CC)

PUR 6607 PUBLIC RELATIONS MANAGEMENT (3) Explores the wide body of social science theory that is the foundation of a successful public relations program in organization. Focuses on the use of public relations as a strategic planning function concerned with building long-term beneficial relationships between the organization and its external and internal publics. (PR: CC)

PUR 6602 PUBLIC RELATIONS COUNSELING (3) Relationship of the public relations counselor to the client or employer; counseling in corporate, non-profit, and governmental organizations; writing and presenting public relations programs to the client; management and operation of counseling firms. (PR: CC)
Mathematics (MTH)

4202 E. Fowler Avenue, PHY 114
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(813) 974-2643

e-mail address: mathdept@math.usf.edu
WebAddress: http://www.math.usf.edu/

Chairperson: Marcus M. Waters
Program Director: Anthanassio G. Kartsatos

*Distinguished Research Professor

Degrees Offered: M.S., Ph.D.

Specializations: Mathematics, Applied Mathematics, Statistics

The Department includes 28 faculty and about 60 graduate students studying for the M.A. and Ph.D. degrees, 35 of whom are supported by teaching assistantships currently.

The department includes the Institute for Constructive Mathematics, which performs applied research for government and industry, and serves as the editorial base for the international journal Constructive Approximation. The international journals: Abstract and Applied Analysis and Journal of Theoretical Probability also have their editorial offices in the department. The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in-service training programs in mathematics.

Research interests of the faculty include the following fields: Analysis, Applied Mathematics, Approximation Theory, Combinatorics, Computational Statistics, Differential Equations, Dynamic Systems, Control Theory, Knot Theory, Nonlinear Analysis, Number Theory, Probability, Special Functions, Theoretical Computer Science, and other areas.

M.A. in Mathematics

Additional Admission Requirements

1. A Bachelor's degree in Mathematics, or a related area with strong math content,
2. At least a 650 quantitative score on the GRE, and
3. At least a 3.5 GPA in undergraduate Mathematics courses.
4. Students with insufficient preparation in real analysis and/or abstract algebra will be required to take MAA 4211 and/or MAS 4301 before or during their first semester of study.
M.A. in Mathematics --Pure and Applied Option

Program Requirements
A candidate must complete at least 30 credit hours in Mathematics, including two sequences, and receive at least a “B” average in both these sequences. A candidate who elects the thesis option must include at least one Core Sequence.

Core Sequences
- Algebra: MAS 5107, 5311, 5312
- Logic and Foundations: MHF 5306, 6307
- Analysis: MAA 5306, 5307
- Topology: MTG 5316, 5317

Elective Sequences
- Applied Mathematics*: MAP 5407, and MAA 5405 or MAP 5345
- Combinatorics*: MAD 5206, 5207, and MAD 6617 or MAT 6932
- Complex Analysis: MAA 6406, MAT 6932
- Functional Analysis: MAA 6506, 6507
- Integration: MAA 6616, 6617
- Nonlinear Functional Analysis: MAA 6506, 6507, MAT 6932
- Ordinary Differential Equations and Control*: MAA 5316, 5317, and 5205 or 6336
- Partial Differential Equations: MAP 5407, 5345, 6356
- Probability: See department for course sequence
- Theory of Computation: MAD 5101, 6510, 6616

*The first 2 courses out of 3 suffice for M.A. students
Not for Ph.D. students

In the lists above, MAT 6932 indicates a Selected Topics course in the area denoted by the title of the sequence. A candidate may petition the Mathematics Graduate Committee to recognize some other sequence of courses as an Elective Sequence.

Language Requirement
Each student must either fulfill a computer language requirement, by demonstrating knowledge of a computer language, or show competency in either Chinese, French, German, or Russian. Competency is shown by either
(a) passing two semesters of a beginning language course with a grade of “B” or better,
(b) passing FRE 1040 or GER 6060 with a “B” or better,
(c) passing a competency examination administered by the Division of Languages, or
(d) graduating from a university where the language is the medium of instruction.

Comprehensive Examination
Each candidate for the M.A. degree must either be examined on a thesis or pass one of the written Core Qualifying Examinations, which are offered in January, May and September. The syllabus for each exam is available from the Department, and is reflected in the contents of the corresponding Core Sequence. A student may repeat each examination once. The comprehensive examination takes the form of an oral thesis defense, in which the candidate must demonstrate knowledge of the general subject area of the thesis.

Thesis
A student who elects the thesis option must register for a minimum of 6 credit hours in MAT 6971, only 6 hours of which may be applied toward the 30-hour degree requirement.
M.A. in Mathematics -- Statistics Option

The requirements are the same as for the Pure and Applied Mathematics Option, except that each candidate must either present a thesis or pass the Core Qualifying Examination based on the Core and Elective Sequences (a candidate must receive at least a “B” average in both these sequences):

**Core Sequence:** Mathematical Statistics: See department for course sequence

**Elective Sequence:** Computational Statistics: STA 5156, 5167

Ph.D. in Mathematics -- Pure and Applied Option

Additional Admission Requirements

1. A Master’s degree in Mathematics
2. At least a 650 quantitative score on the GRE,
3. At least a 3.5 GPA in graduate Mathematics courses.
4. Two letters of recommendation indicating an aptitude for doctoral study.
5. Students with insufficient preparation in real analysis and/or abstract algebra will be required to take MAA 4211 and/or MAS 4301 before or during their first semester of study.

Program Requirements

The student must complete four sequences from among the Core and Elective Sequences, with at least a “B” average in each sequence, and at least 16 hours in MAT 7980. Students admitted to candidacy are required to accumulate a minimum of 6 credits of dissertation hours during each previous 12-month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted. Two Elective Sequences with a course in common will be counted as one sequence. A student who passes a core Qualifying Exam will be considered to have completed the corresponding Core Sequence.

Language Requirement

This is the same as for the M.A., except that two languages are required; the computer language requirement may be substituted for one language.

Qualifying Examination

A doctoral student is required to pass two of the Core Qualifying Examinations required for the M.A. degree (which may have been taken while an M.A. student), and at a level higher than suffices for the M.A. Both must be completed within 13 months after entering the Ph.D. program, unless an extension is granted by the Mathematics Graduate Committee.

After passing the Core Qualifying Examinations, the student will select a Major Professor, and a Doctoral Committee will be appointed by the Department Chairperson. The Committee will determine a course of study leading to the written Elective Qualifying Exam, which may be based on one of the Elective Sequences above, possibly supplemented by other material. The syllabus for this exam, and the names of two examiners from the Graduate Faculty, must be approved by the Mathematics Graduate Advisor at least one semester before the exam is to take place. A student is expected to complete all three exams within 25 months after entering the Ph.D. program, unless an extension is granted by the Mathematics Graduate Committee. A student may repeat each examination once.

Admission to Candidacy

The student should apply for candidacy immediately after completion of the Qualifying Examinations and the Language Requirement.
Dissertation
The dissertation is expected to contain new mathematical results which are worthy of publication. Research towards the dissertation typically forms the major part of the work required for the Ph.D. in Mathematics. *External examiner requirement:* the Department Chairperson will select an external examiner from a list provided by the Major Professor; the examiner should be both expert in the field, and familiar with the standard expected for a Ph.D. A copy of the dissertation must be sent to the external examiner for review at least four weeks in advance of the Final Oral Examination. The reviewer’s report shall be circulated among the Doctoral Committee before the final oral examination. *Alternatively,* referees’ reports on papers based on the dissertation and accepted for publication may be accepted in lieu of the external examiner requirement.

Progress Evaluation
Each Spring Semester after admission to candidacy, the candidate shall give an oral presentation to the Doctoral Committee of the problem(s) under investigation. The presentation may also include a discussion of partial results. The Major Professor shall submit to the Department Chairperson a written report of the presentation.

Ph.D. in Math --Statistics Option
The requirements are the same as for the Pure and Applied Mathematics Option, except that the student must pass the Core Qualifying Exams in Analysis and Mathematical Statistics.

Course Descriptions:

**MAA 5306 REAL ANALYSIS I** (3) Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R. (PR: MAA 4212)

**MAA 5307 REAL ANALYSIS II** (3) Metric spaces, Banach spaces and function spaces; measure and integration on abstract spaces. (PR: MAA 5306)

**MAA 5405 APPLIED COMPLEX VARIABLES** (3) Complex numbers, analytic and harmonic functions, series, contour integrals, residue theory, conformal mappings; a survey course emphasizing techniques and applications. (PR: MAP 4302)

**MAA 6406 COMPLEX ANALYSIS I** (3) Linear transformations, analytic functions, conformal mapping, Cauchy’s theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem. (PR: MAA 5405 or CI)

**MAA 6407 COMPLEX ANALYSIS II** (3) Topics in: conformal mappings, normal families, Picard’s theorem, univalent functions, extremal properties, elliptic functions, approximation theory. Riemann surfaces. (PR: MAA 6406 or CI)

**MAA 6506 FUNCTIONAL ANALYSIS I** (3) Normed linear spaces and topological vector spaces; open mapping, closed graph, and Hahn-Banach Theorem, UB principle, compact operators, dual spaces. (PR: MAA 5307 & MAS 5107 or CI)
### MAA 6507 FUNCTIONAL ANALYSIS II (3)
Hilbert spaces, spectral theory, and other topics. (PR: MAA 6506)

### MAA 6616 ABSTRACT INTEGRATION (3)
Measure as abstract integration; Riesz representation theorem, Fubini's Theorem, Radon-Nikodym Theorem, LP spaces. (PR: MAA 5307 or CI)

### MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS (3)
Programming in LISP, functional languages, foundations of the Lambda Calculus, and algebraic applications (theorem proving and game playing.) (PR: MHF 5306 or MAD 6510 or MAS 5311 or CI)

### MAD 5305 GRAPH THEORY (3)
Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks. (PR: CI)

### MAD 6206 COMBINATORICS I (3)
Elementary counting principles, distributions, sets, multisets, partitions of sets and integers, generating functions and recurrences, graphical methods, probabilistic methods. (PR: MAS 3103 and MAS 4301 or CI)

### MAD 6207 COMBINATORICS II (3)
Combinatorics of finite sets: posets, hypergraphs and external problems, matroids, block designs, Mobiüs inversion for partially ordered sets, Polya’s enumeration theory. (PR: MAS 5311 and MAD 6206 or CI)

### MAD 6510 ANALYSIS OF ALGORITHMS (4)
Mathematical theory of algorithms for information processing, including time and space requirements of algorithms, construction of optimal algorithms. (PR: MHF 4102 or MAS 4301 or CI)

### MAD 6616 ALGEBRAIC AUTOMATA THEORY (3)
Deterministic and non-deterministic finite automata, Mealy and Moore machines, push-down automata, Turing machines, regular languages, context free languages, halting problem, and universal Turing machines. (PR: MHF 4102 or MAS 4301 or CI)

### MAD 6617 ALGEBRAIC CODING THEORY (3)
Linear block codes over an arbitrary finite field: Hamming, Golay, BCH, quadratic residue, Reed-Muller, and MDS codes, the MacWilliams identity, bounds on minimum distance, and relationship to design theory. (PR: MAS 5311 or CI)

### MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS (3)
Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Mathematics majors.) (PR: MAS 3103 and MAS 4301 and Bachelor’s degree or CI)

### MAE 5877 MATHEMATICAL ANALYSIS I FOR TEACHERS (3)
Limits, continuity, derivatives, differentials. (No credit for Mathematics majors.) (PR: MAC 3313 and Bachelor's degree or CI)

### MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I (3)
Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory. (PR: MAP 4302 and MAA 4211, or CI)
MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II (3) Topics selected from fixed point theory, comparison theory, oscillation theory, Poincaré-Bendixson theory, Lyapunov functions, eigenfunction expansions. (PR: MAP 5316 and MAA 5306 or CI)

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3) Separation of variables, the heat equation, wave equation, Laplace’s equation, classification, Green’s functions with emphasis on applications. (PR: MAP 5407 or CI)

MAP 5407 METHODS OF APPLIED MATHEMATICS (3) Sturm-Liouville theory, Fourier series, Green’s functions, matrix methods for linear systems, controllability, optimal control and Pontryagin maximum principle. (PR: MAA 5307 and MAP 5316 or CI)

MAP 6205 CONTROL THEORY AND OPTIMIZATION (3) Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and Pontryagin maximum principle. (PR: MAA 5307 and MAP 5316 or CI)

MAP 6206 MATH OPT TH II (3)

MAP 6336 THEORY OF ORDINARY DIFFERENTIAL EQUATIONS I (3) Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods, spectral theory of differential operators. (PR: MAA 5307 and MAP 5317, or CI)

MAP 6356 PARTIAL DIFFERENTIAL EQUATIONS (3) Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations. (PR: MAP 5345 and MAA 5307, or CI)

MAS 5107 ADVANCED LINEAR ALGEBRA (3) Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-adjoint operators and quadratic forms. (PR: MAS 3103 and MAS 4301; CR MAS 5311)

MAS 5215 NUMBER THEORY (3) Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms. (PR: MAS 3103 and MAS 4301, or CI)

MAS 5311 ALGEBRA I (3) Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization. (PR: MAS 3103 and MAS 4301 or CI)

MAS 5312 ALGEBRA II (3) Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory. (PR: MAS 5311 or CI)

MAT 5932 SELECTED TOPICS (1-4) Each course covers a single topic outside the usual curriculum. (PR: CI)

MAT 6908 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6911</td>
<td>DIRECTED RESEARCH</td>
<td>(1-19 Var.)</td>
<td>Rpt. S/U. (PR: Master’s degree)</td>
</tr>
<tr>
<td>MAT 6932</td>
<td>SELECTED TOPICS</td>
<td>(1-4)</td>
<td>Each course covers a single topic outside the usual curriculum. (PR: CI)</td>
</tr>
<tr>
<td>MAT 6939</td>
<td>GRADUATE SEMINAR</td>
<td>(1-4)</td>
<td>Direction of this seminar is by a faculty member. Students are required to present research papers from the literature. S/U.</td>
</tr>
<tr>
<td>MAT 7980</td>
<td>DISSERTATION: DOCTORAL</td>
<td>(1-19 Var.)</td>
<td>Rpt. (PR: Admission to Candidacy)</td>
</tr>
<tr>
<td>MHF 5306</td>
<td>MATHEMATICAL LOGIC AND FOUNDATIONS I</td>
<td>(3)</td>
<td>Two-course sequence covering; predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability. (PR: MAS 4301 or CI)</td>
</tr>
<tr>
<td>MHF 5405</td>
<td>HISTORY OF MODERN MATHEMATICS</td>
<td>(3)</td>
<td>Traces the development of mathematical ideas from the Renaissance to the 19th century. Open to non-majors. (PR: MAC 3313)</td>
</tr>
<tr>
<td>MHF 6307</td>
<td>MATHEMATICAL LOGIC AND FOUNDATIONS II</td>
<td>(3)</td>
<td>Continuation of MHF 5306. (PR: MHF 5306)</td>
</tr>
<tr>
<td>MTG 5256</td>
<td>DIFFERENTIAL GEOMETRY</td>
<td>(3)</td>
<td>Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups. (PR: MAA 4211, MAS 3103)</td>
</tr>
<tr>
<td>MTG 5316</td>
<td>TOPOLOGY I</td>
<td>(3)</td>
<td>Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces. (PR: MAA 4212)</td>
</tr>
<tr>
<td>MTG 5317</td>
<td>TOPOLOGY II</td>
<td>(3)</td>
<td>The fundamental group; elements of homotopy theory and homology theory. (PR: MTG 5316)</td>
</tr>
<tr>
<td>STA 5166</td>
<td>COMPUTATIONAL STATISTICS I</td>
<td>(3)</td>
<td>Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data. (PR: STA 4321 and CGS 3422, or CI)</td>
</tr>
<tr>
<td>STA 5326</td>
<td>MATHEMATICAL STATISTICS</td>
<td>(3)</td>
<td>Sample distribution theory, point &amp; interval estimation, optimality theory, statistical decision theory, and hypothesis testing. (PR: STA 5446)</td>
</tr>
<tr>
<td>STA 5446</td>
<td>PROBABILITY THEORY I</td>
<td>(3)</td>
<td>Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables. (PR: MAA 4212 and STA 4442, or CI)</td>
</tr>
<tr>
<td>STA 5526</td>
<td>NON-PARAMETRIC STATISTICS</td>
<td>(3)</td>
<td>Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications. (PR: STA 5326 or CI)</td>
</tr>
</tbody>
</table>
STA 6167 COMPUTATIONAL STATISTICS II (3) Design of statistics programs, pivoting and other technology used in stepwise regressions, algorithms in non-linear regression, balanced and unbalanced ANOVA. Iteration methods for numerical solutions of likelihood equations. (PR: STA 5166)

STA 6206 STOCHASTIC PROCESSES (4) Poisson processes, renewal theorems, Markov chains on a countable state space, continuous-time Markov processes with a countable state space, birth and death processes, branching processes, introduction to Brownian motion. (PR: STA 5446)

STA 6208 LINEAR STATISTICAL MODELS (3) Distribution theory, estimation, and hypothesis testing for the general linear model. Experimental designs, including randomized block and incomplete block designs. Multiple regression, ANOVA, and ANCOVA. (PR: STA 5167 or STA 5326 or CI)

STA 6447 PROBABILITY THEORY II (3) Characteristic functions, central limit theorem, martingale inequalities and convergence theorems, optional stopping, ergodic theorems and applications. (PR: STA 5446 and MAA 5306 or CI)

STA 6746 MULTIVARIATE ANALYSIS (3) Multivariate normal distribution; its properties and inference; matrix random variables; multiple and partial correlation; discriminant analysis, principle components and factor analysis; multivariate ANOVA; analysis of covariance; applications using computers. (PR: STA 5326 or CI)

STA 6876 TIME SERIES ANALYSIS (3) Theory and applications of discrete time series models illustrated with forecasting problems. Filtering, forecasting, modeling, and spectral analysis of time series. Control problems. Applications using a computer. (PR: STA 5326 or CI)
Philosophy (PHI)

4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620
(813) 974-2447
e-mail address
WebAddress: http://www.cas.usf.edu/philosophy/index.html

Chairperson: Peter French
Program Director: Steven Turner


*Distinguished Research Professor, **Courtesy Associate Professor

Degrees Offered: M.A., Ph.D.

The Department of Philosophy offers the M.A. and Ph.D. degrees. A student seeking admission to the graduate program must meet minimum university admission requirements and the following additional requirements.

Additional Admission Requirements
1. All applicants must submit a philosophy writing of approximately 10 pages or a copy of the master's thesis.
2. Three letters of recommendation
3. A brief statement of the applicant's philosophical interests
4. The Graduate Committee makes all admissions decisions on the basis of its assessment of a student's likelihood of success in the program. The committee offers admission only into the M.A. program except for students who have an M.A. in Philosophy, who will be admitted to the Ph.D. program in accordance with the Graduate Committee's evaluation of their likelihood of success, or through passing four area exams at a sufficiently high level.

M.A. in Philosophy

Program Requirements
Once admitted, M.A. students may choose either to
I. Earn the M.A. degree by completing at least 30 hours of graduate work, including a course in Symbolic Logic with a grade of B or higher, and a thesis and oral exam.
II. Pass a course in Symbolic Logic with at least a B, complete at least 30 hours of course work, and pass four area exams, before completing 50 hours of graduate course work.
III. Coursework or exam on one foreign language from French, German, Ancient Greek, or Latin.
Exams are given in the following categories:

History of Philosophy from the Pre-socratics through the Renaissance
History of Modern Philosophy from Descartes and Hobbes to the 20th Century
Ethics
Epistemology and Philosophy of Science
Analytic Philosophy
Continental Philosophy
Aesthetics
Social/Political Philosophy

Ph.D. in Philosophy
1. Complete a minimum of 90 hours beyond the baccalaureate degree.
2. Coursework or exams on two foreign languages from French, German, Ancient Greek, or Latin. One of the languages selected must be a modern language. The Graduate Committee may approve the substitution of one other language or comparable research skill relevant to the student's research.
3. Complete and successfully defend a dissertation

Graduate Certificate Development Ethics and Policy
Post-baccalaureate certification for individuals interested in ethical problems and solutions related to local, national, and international development policies and practices. Classes available evenings. For details contact the department.

Requirements:
18 semester hours, including graduate seminars in Development Economics and Development Ethics, as well as a graduate practicum course entitled Development Ethics: Principles and Practices.

Course Descriptions:

PHH 6938 SEMINAR IN THE HISTORY OF PHILOSOPHY (3) A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary. Rpt. up to 12 hours.

PHI 5135 SYMBOLIC LOGIC (3) Mathematical treatment of Formal Logic, including methods of proof, quantification, the logic of relations and an introduction to properties of deductive systems.

PHI 5913 RESEARCH (1-4) Individual research supervised by a faculty member. Approval slip from instructor required.

PHH 6265 CONTINENTAL PHILOSOPHY I: PHENOMENOLOGY TO HERMENEUTICS (3) A general survey of the 20th century continental schools of phenomenology, ontology, and hermeneutics, with special emphasis on the works of Husserl and Heidegger.

PHH 6266 CONTINENTAL PHILOSOPHY II: POLITICAL THEORY AND CONTINENTAL SOCIAL THEORY (3) A general survey of 20th century continental social and political theory, dealing with both the younger and the older generations of the Critical Theory tradition, together with their contemporaries and critics.
PHI 6267 CONTINENTAL PHILOSOPHY III: FROM STRUCTURALISM TO DECONSTRUCTIONISM (3) An examination of leading philosophical texts in 20th century continental philosophical movements known as structuralism, post-structuralism, postmodernism, and deconstruction, with special emphasis on the works of Michel Foucault and Jacques Derrida.

PHI 5934 SELECTED TOPICS (1-3) Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6105 SEMINAR IN LOGIC (3) Foundations and basic problems of logical theory. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6155 MODAL LOGIC (3) A study of the main systems of Modal Logic together with their metatheory, with considerable attention to the varieties of modality.

PHI 6305 SEMINAR IN EPISTEMOLOGY (3) An analysis of recent and contemporary problems of knowledge. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6405 SEMINAR IN THE PHILOSOPHY OF NATURAL SCIENCE (3) A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. May be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6415 KANT (3) A survey of Kant’s critical philosophy, emphasizing transcendental epistemology and Kant’s critique of metaphysics. This course is open to graduate students (majors and non-majors). Prior knowledge of the history of philosophy is required, in particular of early-modern philosophy.

PHI 6425 SEMINAR IN THE PHILOSOPHY OF SOCIAL SCIENCE (3) Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format.

PHI 6506 SEMINAR IN METAPHYSICS (3) In this course students will examine selected topics in classical and contemporary metaphysics, for example, the concept and categories of Being or existence, the existence of God, the problem of universals or general terms, the a priori, the mind–body problem, and the identity thesis.

PHI 6605 SEMINAR IN ETHICS (3) Advanced study of the problems of moral philosophy. Rpt. up to 9 hours.

PHI 6665 METAETHICS (3) A study of alternative theories of metaethics including emotivism, moral point of view, supererogate virtue theory.

PHI 6706 SEMINAR IN THE PHILOSOPHY OF RELIGION (3) An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

PHI 6808 SEMINAR IN AESTHETICS (3) An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, context. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
PHI 6908 DIRECTED RESEARCH (1-19 Var.) Rpt. S/U.

PHI 6934 SELECTED TOPICS (1-3) Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6945 GRADUATE INSTRUCTION METHODS (1-3) Special course to be used primarily for the training of teaching assistants. Var. Rpt. to a total of 3 credits. S/U.


PHI 7980 DISSERTATION: DOCTORAL (1-19 Var.) Rpt.

PHM 5125 TOPICS IN FEMINIST PHILOSOPHY (3) A study of recent feminist philosophical approaches to epistemology, aesthetics, or political philosophy. Variable titles: Feminist Epistemology, Feminist Aesthetics, Feminist Political Theory. Rpt. up to 9 hours.

PHM 6105 SEMINAR IN SOCIAL PHILOSOPHY (3) A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy (all types). May be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6305 SEMINAR IN POLITICAL PHILOSOPHY (3) An examination of the main political philosophies. May be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6406 SEMINAR IN THE PHILOSOPHY OF LAW (3) A study of the metaphysical, ethical, and epistemological bases of law. May be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6506 SEMINAR IN THE PHILOSOPHY OF HISTORY (3) The analysis of language and logic of historical explanation, historical idealism, historical materialism, positivism, and historical sociology. May be taken more than once for credit with CI and departmental approval. Seminar format.

PHM 6646 SEMINAR IN DEVELOPMENT ETHICS (3) This course presents and critically examines the major ethical theories related to both national and international development-institutions, policies, and practices. Open to all Graduate Students.

PHP 6005 Plato (3) A systematic study of Plato’s dialogues.

PHP 6015 ARISTOTLE (3) A systematic study of Aristotle’s philosophy.
Physics (PHY/PHZ)

4202 E. Fowler Avenue, PHY 114
Tampa, Fl 33620
(813) 974-2871
e-mail address: physics@chuma.cas.usf.edu
WebAddress: http://www.cas.usf.edu/physics

Chairperson: Robert S. F. Chang
Program Director: Pritish Mukherjee


Degrees Offered: M.S., Ph.D.

Specializations: Solid state physics, Materials Science, Semiconductor Physics, Applied Physics, Atomic-molecular Physics, Quantum Electronics and Laser Physics, Theoretical Physics, Medical Applications of Physics

M.S. in Physics

Additional Admission Requirements
1. Applicants must have a good undergraduate background in Physics, usually requiring a Bachelor’s degree in Physics or in related fields such as Engineering, Mathematics, Chemistry, or similar disciplines.
2. Three letters of recommendation or reference commenting on an applicant’s background and potential to pursue a graduate program in Physics/Applied Physics are required.
3. One-page statement outlining their research interests and objectives relating to the program.

Program Requirements
Students admitted to the graduate program in Physics, will consult with the Physics Director of Graduate Studies, who will be the student’s course advisor and monitor the student's. After a decision has been made concerning the student's academic goals, the duties of graduate advising will be assumed by the major professor and the supervisory committee appointed by the department chairperson. In keeping with the student's academic goals, the supervisory committee will determine the appropriate course of study and examinations required for graduation for both the thesis and non-thesis options.

Thesis
The student desiring the M.S. degree with a thesis is required to take a minimum of 30 credits, no more than 6 of which may be for PHY 6911, PHY 6935, and PHY 6971. Of
these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must present a thesis acceptable to the supervisory committee covering research work amounting to a minimum of 6 units of credit in PHY 6971. The student must pass a comprehensive examination set by the supervisory committee.

Non-Thesis
The student desiring the M.S. degree without a thesis is required to take a minimum of 30 credits, no more than two of which may be for PHY 6911 and PHY 6935. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must pass a comprehensive examination.

M.S. in Applied Physics

Additional Admission Requirements
See additional requirements for the M.S. in Physics above.

Program Requirements (30 hours)
The Applied Physics Program is two (2) years in duration and includes:
- 9 credit hours of core Physics courses
- 12 credit hours in one of two available options:
  - Laser Physics and Materials Physics
  - 3 credit hours in Industrial Practicum
- 6 credit hours of Thesis

Joint M.S. Degree: Physics/Engineering Science

The joint master’s degree is based on the synergism of Physics offerings and the microelectronics option in the Electrical Engineering M.S. program. The 51-hour joint program culminates in the student receiving an M.S. degree in Physics and an M.S. degree in Engineering Science/Electrical Engineering. The program includes a single thesis.

The program takes approximately three years to complete. Nine hours of overlap courses will be used to satisfy the degree requirements for both departments. These include the two-semester Solid State Physics sequence and a Mathematical Physics course. Five additional courses (15 hrs.) each will be required in Physics and Electrical Engineering. The thesis requirement includes 6 credit hours each in Physics and Electrical Engineering.

The credit-hour breakdown for the 51 required credits is as follows:
- 15 hrs. of Electrical Engineering courses
- 12 hrs. of thesis (6 each in Physics and Electrical Engineering)

For specific course details, students should contact the graduate directors in either the Physics or Electrical Engineering departments.

Ph.D. in Applied Physics

This new program to be implemented in the Fall of 1999 emphasizes the interdisciplinary training of applied physicists for the practical, engineering applications of theoretical, fundamental physical concepts. The program encompasses the areas of laser physics,
materials physics, computational physics, environmental physics and sensors, biomedical physics and imaging science. It requires a total of 90 credit hours distributed among 27 hours of core courses in theoretical and applied areas, 6 hours of lab training, 9 hours of elective coursework and the remaining credit hours in directed and dissertation research. An important feature of this program is a course in laboratory measurement and instrumentation and a field-stie industrial practicum.

Ph.D. in Engineering Science
Under an interdisciplinary arrangement with the College of Engineering, physics graduate students may obtain a Ph.D. in Engineering Science under the dissertation direction of a Physics Director of Graduate Studies.

Course Descriptions:

PHY 5720C ELECTRONICS FOR RESEARCH (3) A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital ICs, breadboarding techniques and electronic test instrumentation. Spring Semester. (PR: CI)

PHY 6246 CLASSICAL MECHANICS (3) Dynamics of particles and systems of particles, Lagrange's equation, central forces, rigid body dynamics. Fall Semester. (PR: PHY 4222 or CI)

PHY 6346 ELECTROMAGNETIC THEORY I (3) Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, PHY 6347. (PR: PHY 4324C or CI)

PHY 6347 ELECTROMAGNETIC THEORY II (3) Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-particle kinematics and dynamics, plasmas and magnetohydrodynamics. (PR: PHY 6346 or CI)

PHY 6446 LASER PHYSICS AND NONLINEAR OPTICS I (3) Optical modes, optical resonator theory, gain saturation, theory of laser oscillators, specific laser systems, Q-switching and mode-locking, optical waveguides. (PR: PHY 4324C and PHY 4604 or CI)

PHY 6447 LASER PHYSICS AND NONLINEAR OPTICS II (3) Nonlinear optics including optical phase conjugation, second harmonic and sum frequency generation, and stimulated Raman scattering. Selected applications of lasers and nonlinear optics. (PR: PHY 6446 or CI)

PHY 6536 STATISTICAL MECHANICS (3) Kinetic theory, configuration and phase space. Boltzmann theorem, Liouville theorem, ensemble theory, quantum statistics. (PR: PHY 5624 or CI)

PHY 6645 QUANTUM MECHANICS I (3) Hilbert space, continuous spectrum, matrix and wave mechanics, quantum dynamics, symmetries, angular momentum, perturbation methods. (PR: PHY 4604 or CI)

PHY 6646 QUANTUM MECHANICS II (3) Approximation and perturbation methods, hydrogen finestructure, scattering, identical particles, second quantization, Dirac equation. (PR: PHY 6645 or CI)
PHY 6909 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CI)

PHY 6911 DIRECTED RESEARCH (1-19 Var.) Rpt. S/U. An individual investigation of a research topic under the supervision of an instructor. (PR: GS)

PHY 6935 GRADUATE SEMINAR (1) All Physics graduate students are expected to enroll in this course at least once. S/U. (PR: CI)

PHY 6938 SELECTED TOPICS IN PHYSICS (1-10) Each topic is a course in directed study under the supervision of a faculty member. (PR: CI)


PHZ 5115 METHODS OF THEORETICAL PHYSICS I (3) Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus. (PR: MAP 4302 or CI)

PHZ 5116 METHODS OF THEORETICAL PHYSICS II (3) Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory. (PR: MAP 4302 or CI)

PHZ 5304 NUCLEAR PHYSICS (3) Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics. (PR: PHY 4604 or CI)

PHZ 5405 SOLID STATE PHYSICS I (3) Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426. (PR: PHY 3101, MAP 4302, CI)

PHZ 6136 PHYSICAL APPLICATIONS OF GROUP THEORY (3) Matrices, symmetry elements and point groups, reducible and irreducible representations, molecular vibrations, selection rules, rotation groups and atomic levels, molecular orbitals and electronic energies, space groups and spectra of crystals, crystal field theory and symmetry. (PR: CI)

PHZ 6204 ATOMIC AND MOLECULAR SPECTRA I (3) Hydrogen atom, one electron systems, central field and vector models, perturbations, Zeeman and Stark effect, hyperfine structure, atomic structure calculations; diatomic spectra, rotational and vibrational analysis, intensities, temperatures from spectra, isotope effects. (PR: PHY 4604 or CI)

PHZ 6205 ATOMIC AND MOLECULAR SPECTRA II (3) Electronic transitions in diatomic molecules, Hund’s coupling schemes, electron configuration and valence, astrophysical applications, predisassociation, normal modes of polyatomic molecules, Raman and IR spectra, rotation-vibration interaction, microwave spectra, thermodynamic properties, stellar atmospheres. (PR: PHZ 6204 or CI)

PHZ 6426 SOLID STATE PHYSICS II (3) Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHZ 5405, PHZ 6426. (PR: PHZ 5405 or CI)
Political Science (POL)

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2384
e-mail address
WebAddress: http://www.cas.usf.edu/

Chairperson: Mohsen M. Milani
Program Director: Susan Northcutt


Degrees Offered: M.A.

The graduate program leading to the M.A. in Political Science is designed to offer advanced general instruction in Political Science. It prepares its graduates for positions of responsibility in the public and private sectors, as well as in research, teaching, and study at the doctoral level.

M.A. in Political Science

Additional Admission Requirements

1. Three letters of recommendation from individuals familiar with the student's academic and intellectual abilities. These letters must show that the student has the potential to do satisfactory graduate level work in Political Science. and should address the student's writing and speaking abilities, quantitative skills, and capacity for analytic thinking;

2. Statement of purpose (500 words) which discusses reasons for graduate study in Political Science as well as background and experience related to graduate study in gener

3. Have a good undergraduate background in Political Science, usually requiring a Bachelor's degree in Political Science or in a related field.

4. Students without a sufficient background in Political Science may be required to take additional courses in Political Science prior to admission. These courses will be specified by the Graduate Program Coordinator in consultation with the department admissions committee; the student must earn a grade of "B" or better in each of these courses.
program requirements

for instructional purposes, the graduate curriculum in political science has been divided into seven fields:

field 1 political theory
POS 6735 (3)  POS 6736 (3)  POS 6247 (3)  POT 5626 (3)
POT 6007 (3)

field 2 comparative government and politics
CPO 5934 (3)  CPO 6036 (3)  CPO 6091 (3)

field 3 international relations
INR 5086 (3)  INR 6007 (3)  INR 6036 (3)  INR 6107 (3)

field 4 american national and state government
POS 5094 (3)  POS 6045 (3)  POS 6095 (3)  POS 6127 (3)
POS 6415 (3)  POS 6427 (3)  POS 6455 (3)

field 5 urban government and politics
POS 5155 (3)  POS 6157 (3)  URP 6056 (3)

field 6 public policy
INR 6107 (3)  POS 6095 (3)  POS 6157 (3)  PUP 5607 (3)
PUP 6007 (3)  URP 6056 (3)

field 7 law and politics
POS 6607 (3)  POS 6698 (3)  POT 5626 (3)

the following non-field courses may be used as elective hours:
POS 6909 (1-3)  POS 6919 (var)  POS 6933 (3)

program requirements

a minimum of 36 hours of graduate level course work distributed according to the following five categories:

1. required core (12 hours): POS 6735 (3), POS 6736 (3), plus two of the following, which will determine the student’s major and minor fields of study. all core courses should be taken as early as possible in the student’s M.A. degree program.
   CPO 6091 (3)  INR 6007 (3)  POS 6045 (3)  POS 6157 (3)
   POS 6698 (3)  POT 6007 (3)  PUP 6007 (3)

2. major field (9): 3 courses in the student’s major field of study.

3. minor field (6): 2 courses in the student’s minor field of study.

4. electives (minimum 3 hours). must be approved in advance. students who choose public policy as their major field can structure their electives around specific policy areas (e.g., education, health, urban, social sciences, law enforcement) by consulting with the graduate program coordinator.

5. thesis: minimum of 3 credits (POS 6971).

6. remaining hours are to be taken as thesis (maximum of 6 hours), electives, or in the major or minor field.

thesis

the completed thesis must be defended at a formal oral defense.

comprehensive examination

each student must pass a written comprehensive examination covering the fields in which they have concentrated their studies. these examinations must be taken before completion of the thesis and thesis defense.

during the first semester in the M.A. program, each student must develop a written plan of study in consultation with the Graduate Program Coordinator. the plan should specify how the student intends to satisfy degree requirements. a copy of the approved plan must be filed with the department. periodic changes and updates, as necessary, may be made with the approval of the Graduate Program Coordinator. students are responsible for initiating changes and keeping their plans of study up to date.
Certificate in Political Science

Some students may choose to pursue a certificate program rather than the degree program. The admissions and student evaluation standards are the same as for those students in the degree program. The program offers a certificate program of 20 credits in Political Science (general) or International Relations. Nine of these credits must come from the following required courses:

CPO 6036  INR 6107  POS 6736  POS 6933

Course Descriptions:

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS (3) Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions. Rpt. as topics vary. (Sr./ GS)

CPO 6036 POLITICS OF DEVELOPING AREAS (3) Advanced study of ideologies, politics, political institutions, and the socio-economic conditions that influence them in developing nations. (Sr./ GS)

CPO 6091 SEMINAR IN COMPARATIVE POLITICS (3) Extensive examination of the major theories and approaches used in the study of Comparative Politics. Seminar format. (GS)

INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3) Explores specific topics and provides the student with an opportunity for indepth study of historical and contemporary problems in international politics. Rpt. as topics vary. (Sr./ GS)

INR 6007 SEMINAR IN INTERNATIONAL RELATIONS (3) Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues. (Sr./ GS)

INR 6036 SEMINAR IN INTERNATIONAL POLITICAL ECONOMY (3) Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analysis of cooperation and conflict in trade, aid, and investment relationships.

INR 6107 AMERICAN FOREIGN POLICY (3) Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches. (GS)

POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3) Selected topics of study in American Government. Rpt. as topics vary. (Sr./ GS)

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3) Selected issues and topics in Urban Government and Politics. Rpt. as topics vary. (Sr./ GS)

POS 6045 SEMINAR IN AMERICAN GOVERNMENT & POLITICS (3) Advanced study of selected topics of institutions and processes of American national government and politics. (Sr./ GS)
POS 6095 SEMINAR IN INTERGOVERNMENTAL RELATIONS (3) Advanced study of selected topics of institutions, processes, and behavior of American state governments and Florida government. Rpt. as topics vary. (GS)

POS 6127 ISSUES IN STATE GOVERNMENT AND POLITICS (3) Advanced study of selected topics in institutions, processes, and behavior of American state governments and Florida government. Rpt. as topics vary. (GS)

POS 6157 SEMINAR IN URBAN GOVERNMENT AND POLITICS (3) Analysis of literature with emphasis on urban political behavior, development of various theories, and propositions regarding governmental structure and the formation and implementation of public policy. (GS)

POS 6415 THE AMERICAN PRESIDENCY (3) Analysis of problems and powers of the presidency with emphasis on crisis management, staffing, legislative leadership, and decision making. (GS)

POS 6455 POLITICAL PARTIES AND INTEREST GROUPS (3) Analysis of statutes, functions, and characteristics of political parties and interest groups, as well as their interactions with political processes, actors, and institutions. (GS)

POS 6607 CONSTITUTIONAL LAW (3) Advanced study of legal, political, philosophic, and methodological problems in constitutional law. (GS)

POS 6698 SEMINAR IN LAW AND POLITICS (3) Advanced study of institutions and processes in the field of law and politics. Rpt. as instructor and content vary. (GS)

POS 6735 FOUNDATIONS OF POLITICAL INQUIRY (3) Survey of philosophical, intellectual, and theoretical issues, including historical development of political science. Topics include empirical approaches, rational choice theory, and critical approaches such as pragmatics, hermeneutics, genealogy, and critical theory. (GS)

POS 6736 POLITICAL RESEARCH METHODS (3) A graduate level, introductory survey of empirical research methodology, including statistics and computer data analysis. Topics include measurement, sampling, research design, and selected bivariate analysis techniques. (PR: POS 3713 or equiv.)

POS 6909 INDEPENDENT STUDY (1-3) Specialized independent study determined by the student’s needs and interests. Needs instructor’s consent. S/U. (PR: 3.0 in Political Science, CC)


POS 6933 SELECTED TOPICS IN POLITICAL SCIENCE (3) Selected topics, issues, and problems in political science. Rpt. as topics vary.

POS 6942 FIELD WORK IN POLITICAL SCIENCE (1-3) Application of research models now employed in governmental agencies, including development of a structured research proposal. (PR: 3.0 in Political Science and GS)

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3) Selected topics in political philosophy and law. Rpt. as topics vary. (PR: CI)

POT 6007 SEMINAR IN POLITICAL THEORY (3) Students explore advanced problems of political theory. (PR: GS)

PUP 5607 PUBLIC POLICY AND HEALTH CARE (3) The study of health care policy as it relates to the policy process in the American setting.

PUP 6007 SEMINAR IN PUBLIC POLICY (3) Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.
Psychology (PSY)

4202 E. Fowler Avenue, BEH 355
Tampa, Fl 33620
(813) 974-2492
e-mail address
WebAddress: http://www.cas.usf.edu/psychology/

Chairperson: Edward Levine
Program Director: Michael D. Coover

* Distinguished Research Professors

Degrees Offered: M.A./Ph.D.

Specializations:
The graduate faculty of the Psychology Department is divided into three broad program areas: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in areas of special expertise.


Cognitive and Neural Sciences - Behavioral Neuroscience, Cognition, Judgement and Decision Making, Memory, Perception. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.

M.A. in Psychology
The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology.

Program Requirements
The student must complete 30 hours of graduate Psychology courses and all area requirements. All students are required to complete two quantitative methods courses (PSY 6217A, 6217B). In addition, the student must complete three core courses:
- EXP 6608
- PSB 6056
- SOP 6068
The student must successfully pass an oral examination covering the thesis and research courses.

Ph.D. in Psychology
The Ph.D. in Psychology is offered in the fields of Clinical, Cognitive and Neural Sciences, and Industrial/Organizational Psychology.

Program Requirements
Advanced doctoral-level requirements are determined by the student and the Ph.D. committee. In addition to the completion of all M.A. requirements in Psychology or its equivalent:
1. The Department of Psychology requires the student to take a graduate minor. A minor program of study, composed of work done outside the student's field of concentration and including a minimum of two appropriate graduate level courses, is required by the department for admission to Ph.D. candidacy. The minor must be approved by the student's Ph.D. committee and the Department of Psychology.
2. Successful completion of a comprehensive examination or major area paper.
3. A one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology Program.
4. Six months of internship in approved industrial or community agencies as available for Ph.D. students in the Industrial/Organizational Psychology program.

Course Descriptions:

CLP 6166 PSYCHOPATHOLOGY (3) Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included. (PR: Admission to graduate program in Psychology or Cl)

CLP 6438 PSYCHOLOGICAL ASSESSMENT: THEORY AND RESEARCH (1-4) Courses cover theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, neuropsycho-diagnostics, and personality testing. Rpt. with different subject matter. (PR: Cl)

CLP 6937 TOPICS IN CLINICAL PSYCHOLOGY (1-3) Courses on topics, such as humanistic psychology, community psychology, and clinical neuropsychology. Rpt. with different subject matter. (PR: Cl)
CLP 7188 CLINICAL PSYCHOLOGY INTERVENTION: THEORY AND RESEARCH (1-4) Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention. Rpt. with different subject matter. (PR: CI)

CLP 7379 GRADUATE SEMINAR IN CLINICAL PSYCHOLOGY (1-3) Seminars on topics, such as psychopathology, psychological assessment and interventions, health psychology, addictive behaviors, clinical child psychology, and clinical neuropsychology. (PR: CI)

DEP 6058 DEVELOPMENTAL PSYCHOLOGY (3) Basic survey of research and theory in human development with emphasis on early developmental processes. (PR: Admission to graduate program in Psychology or CI)

DEP 6136 LANGUAGE DEVELOPMENT (3) Explores the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development, with emphasis on recent research. (PR: Admission to graduate program in Psychology or Communication Sciences and Disorders or CI)

EXP 6526 HUMAN MEMORY (3) Review of methods, findings, and theoretical interpretations associated with the acquisition and retention of information. (PR: Admission to graduate program in Psychology or CI)

EXP 6608 COGNITIVE PSYCHOLOGY (3) A survey of the research and theory dealing with higher memory, language, and the higher mental processes, including Perception. Core requirement for all graduate students in Psychology (PR: Admission to graduate program in Psychology or CI)

EXP 6643 PSYCHOLOGY OF LANGUAGE (3) Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field. (PR: GS)

EXP 6930 TOPICS IN EXPERIMENTAL PSYCHOLOGY (3) Electrophysiological methods and psychophysiology. Rpt. with different subject matter. (PR: CI)

EXP 7099 GRADUATE SEMINAR IN EXPERIMENTAL PSYCHOLOGY (1-3) Seminars on topics, such as learning, perception, memory, cognitive processes, and quantitative methods. Rpt. with different subject matter. (PR: CI)

INP 6056 INDUSTRIAL PSYCHOLOGY (3) An introduction to the major areas of Industrial-Organizational Psychology, including topics on selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure. (PR: Admission to graduate program in Psychology or CI)

INP 6935 TOPICS IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY (3) Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors. Rpt. with different subject matter. (PR: CI)
INP 7097 GRADUATE SEMINAR IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY (1-3) Seminars on topics, such as industrial psychology, evaluation of performance in organizations, and human factors. Rpt. with different subject matter. (PR: CI)

PSB 6056 PHYSIOLOGICAL PSYCHOLOGY (3) Survey of data and research methods in Behavioral Neuroscience. Basic learning theories & CNS function in behavior, & disorders associated with CNS dysfunction will be covered. (PR: Admission to graduate program in Psychology or CI)

PSY 6217 RESEARCH METHODS AND MEASUREMENT (2-4) Courses in research strategies, design and analysis, and measurement theory in psychological experimentation. Inferential statistics, anova, correlation methods, and interpretation. Rpt. with different subject matter. (PR: CI)

PSY 6605C HISTORY AND SYSTEMS OF PSYCHOLOGY (2) A review of the history of modern psychology with emphasis on the major systematic approaches that have influenced the current structure of psychology. Persisting polarities and common underlying issues are studied in various historical contexts. (PR: Admission to the Graduate Program in Psychology or CI)

PSY 6907 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: Majors only)


PSY 6946 PRACTICUM AND INTERNSHIP IN CLINICAL PSYCHOLOGY (1-15) Supervised training in community and university settings in the application of Psychology. Rpt. (PR: CI)

PSY 6947 GRADUATE INSTRUCTION METHODS (1-3) Special course to be used primarily for the training of teaching assistants. Var. Rpt. to a total of 5 credits. S/U. (PR: CI)


PSY 7908 DIRECTED READINGS IN PSYCHOLOGY (1-15) An advanced reading program of selected topics in Psychology under the supervision of a Psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member. Rpt. (PR: CI)


PSY 7931 SEMINAR IN ETHICS AND PROFESSIONAL PROBLEMS (2) Ethical issues and professional problems in the practice of psychology. (PR: Second year in Ph.D. program in Psychology or CI)

PSY 7980 DISSERTATION: DOCTORAL (1-19 Var.) S/U (PR: Admission to Candidacy)
SOP 6068 PERSONALITY AND SOCIAL PSYCHOLOGY (3) This course is a survey of modern personality and social psychology. It will examine how personal attributes and social situations influence human behavior. Major contemporary theories of how personality and social variables individually and collectively affect human feelings, thoughts and actions will be presented. (PR: B.A. degree in Psychology or related discipline)

SOP 6669 TOPICS IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY (3) Courses on topics, such as experimental social psychology, organizational psychology, attitudes, and group process. Rpt. with different subject matter. (PR: CI)

SOP 7609 GRADUATE SEMINAR IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY (1-3) Seminars on topics, such as social psychology, job stress, and decision making. Rpt. with different subject matter. (PR: CI)
Public Administration (PAD)

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2510
e-mail address
WebAddress: http://www.cas.usf.edu/pad/index.html

Program Director: Joan E. Pynes

Faculty: J.E. Benton, John L. Daly, Jamil E. Jreisat, Susan A. MacManus, Ambe J. Njoh, Joan E. Pynes, Platon Rigos, Carole D. Pettijohn

Degrees Offered: M.P.A.

The Public Administration Program offers a multi-disciplinary course of study leading to the Master of Public Administration (M.P.A.). The M.P.A. degree is designed primarily to prepare students for successful leadership roles and management careers in the public (i.e., governmental and quasi-governmental organizations) and non-profit sectors. Students enrolled in the M.P.A. program pursue careers in local, state, or federal agencies of government, non-profit organizations, and special service districts. Additionally, the M.P.A. degree prepares individuals for further academic study leading to the doctorate in Public Administration or the Ph.D. in Public Policy and Administration, as well as in a variety of other disciplines.

Those employed in public management positions may wish to pursue the M.P.A. in order to broaden educational backgrounds, to prepare for increased job responsibilities, or to change career paths. Such in-service students currently make up the majority of the M.P.A. student body.

The Public Administration program also offers a course of study leading to a Graduate Certificate in Public Management (G.C.P.M.) and Graduate Certificate in Nonprofit Management (G.C.N.M.). This program is designed for individuals who wish to acquire knowledge of public and nonprofit management theory and practices, but who do not find it necessary or feasible to pursue the M.P.A. degree. The M.P.A. Program also serves pre-service students who have recently completed a bachelor’s degree, who wish to gain entry into a professional career track. Students who are admitted as regular M.P.A. degree candidates are not normally eligible for the graduate certificate programs.

Master of Public Administration (M.P.A.)

Additional Admission Requirements
Admission to the M.P.A. program is based on an overall assessment of the applicant’s potential for successfully completing the M.P.A. degree as demonstrated by the following:

1. Two letters of recommendation, one of which should be from a faculty member familiar with the applicant’s academic performance and potential.
2. A brief career statement, indicating how one's career goals and aspirations can be met by completing the M.P.A. degree.

3. A statement (if applicable) describing an applicant's current and/or past managerial work experience in the public sector. This statement is especially important for (in-service) applicants who wish to secure a waiver for the internship requirement.

4. Approval by the M.P.A. admissions committee and, if deemed necessary, an admissions interview.

5. Applicants may also be required to complete additional undergraduate courses prior to acceptance into the program.

Program Requirements
The M.P.A. Program requires approximately two academic years of full-time study. The required curriculum is 42-51 credit hours (varying according to a student's prior work experience and exit options chosen). All students must complete a core of nine courses (27 hours) and either four or six courses (12-18 hours)* in elective coursework selected in consultation with an advisor. Student with appropriately documented administrative work experience commensurate with their career goals may not be required to complete an internship in a public or nonprofit agency. However, students without practical administrative experience in a public or nonprofit sector must complete an internship (6 hours).

*The number of elective courses taken depends on the exit requirement selected.

At least 24 credit hours must be taken at the 6000 level. A minimum of 27 hours must be taken in formal, regularly scheduled classes. Courses at the 5000 level are accepted for credit toward the degree.

Core Courses

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Electives (12-18 hours)
Each student must take 12-18 elective credit hours depending on the chosen exit option. Students may select courses from an approved list in General Public Management, Budgeting and Financial Management, Urban Management and Planning, Public Organization Management, Policy Analysis, and Nonprofit Management. Students may opt to design their own course of study with the consent of an advisor or the M.P.A. Director. Students may include up to 6 hours from another department or program with the consent of the M.P.A. Director.

Internship (6 hours)
Pre-service students are required to complete a supervised internship in a governmental or non-profit organization (PAD 6946). Internships provide students with the opportunity to gain valuable experience in the public sector, thereby enhancing the academic course of study.

Internship credits must be earned while a student is in residence and before a student has completed regular course work requirements. Exceptions to this rule can only be made by the M.P.A. Director and must be made in advance. In-service students who have
appropriate managerial/work experience commensurate with their career goals may not be required to complete an internship. After consultation with the student, the M.P.A. Director may choose to waive the internship.

Exit Requirements

Capstone Course
Students who have completed all required core and at least four elective courses may opt to enroll in PAD 6056 The Practice of Public Management. PAD 6056 is a final step before graduation. This course is designed to provide the student with an opportunity to apply the knowledge and skills acquired during studies in the Public Administration Program. This course aims to challenge students not only to test their managerial proficiency, but also to develop their capabilities in synthesizing and integrating conceptual frameworks, as well as in relating them to real managerial situations.

OR

Problem Report (3 hours)
The Problem Report focuses on a significant administrative/policy problem confronting a public or nonprofit manager or agency. Upon completion, the student should have demonstrated the ability to identify a problem and a set of solutions, collect and analyze relevant data, and present and defend a recommended course of action intended to solve the problem. The student is expected to present and be prepared to defend these findings (both verbally and in writing) to a committee. This option is available only after the student has obtained faculty advisors and submitted a written proposal that complies with the Problem Report requirements. Copies of the proposal guidelines and the Problem expectations can be obtained from M.P.A. faculty members, The M.P.A. Program Assistant, M.P.A. Director, or from our web page. Student selecting this exit option must complete four elective courses. This requirement is to be completed near the end of the student’s course of study. For in-service students, the problem selected for study should be outside the student’s immediate work-related resposibilities. The Problem Report Committee shall consist of at least two M.P.A. faculty and, when appropriate, a qualified person outside the M.P.A. Program. A minimum grade of “B” must be achieved on the Problem Report.

Students must register for PAD 6909 Problem report for three (3) hours.

Graduate Certificate in Public Management (GCPM)

Additional Admission Requirements
Admission is based on an overall assessment of the applicant’s educational needs and career objectives. Applicants must complete an admissions form furnised by the Public Administration program and include as part of the application a written statement describing work experience in the public sector and indicating how career objectives can be enhanced by completing the G.C.P.M.

Program Requirements
A certificate is awarded upon the completion of 18 hours of study, with a 3.0 GPA achieved on all work attempted. Each student must take a minimum of 15 PAD credits in regularly scheduled graduate courses; at least 9 hours must be core courses. Independent study, directed research, and graduate colloquium credits cannot be counted toward the certificate requirements. Three credits earned in another department/program may be applied toward the certificate, providing they are relevant to the G.C.P.M.
Graduate Certificate in Nonprofit Management (GCNM)

Additional Admission Requirements
Admission to the Graduate Certificate in Nonprofit Management (GCNM) is based on an overall assessment of the applicant’s educational needs and career objectives. Applicants must hold a bachelor’s degree from a regionally accredited university. Additionally, each applicant must complete an admissions form furnished by the Public Administration Program, as well as a brief statement indicating how the applicant believes these career objectives may be enhanced by completing the GCNM. Students in the certificate program register as “special students” without having to seek formal admission to the Graduate Studies.

Applicants can, contingent upon acceptance into a USF graduate degree program, and receiving department approval, concurrently work toward the Nonprofit Management Certificate, and a higher-level graduate degree. Interested individuals must submit separate applications to the certificate and chosen graduate program. Applicants should realize that acceptance in one course of study does not guarantee acceptance into the other.

Course Requirements
A certificate is awarded upon completion of 18 credit hours of study with a 3.0 average achieved on all work assignments. Independent study and directed research credits cannot be counted toward certificate requirements. Students must take the following courses:

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<th>Course Code</th>
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<tr>
<td>MAR 6815</td>
<td>Marketing, College of Business</td>
<td>3</td>
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<td>PAD 6144</td>
<td>PAD 6146</td>
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<td>PAD 6307</td>
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<td>PAD 6332</td>
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Doctoral Minor in Public Administration
Students enrolled in doctoral level courses of study in other programs (e.g., Anthropology, Psychology, Education) can, with their program’s approval, complete a minor in Public Administration. The Director of the Public Administration program will assist the student in the design of an appropriate course of study. The Ph.D. candidate with a minimal background in public administration is advised to enroll in one or more of the following courses:

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<th>Course Code</th>
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<td>PAD 6044</td>
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<td>PAD 6307</td>
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Course Descriptions:

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3) Selected issues and topics in Public Administration and Public Policy. Rpt. as topics vary. (Sr. & GS only)

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3) Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making. (PR: URP 4050 or URP 6056, GS or Sr)

PAD 5605 ADMINISTRATIVE LAW AND REGULATION (3) An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government. (GS or GR)
PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3) Provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3) Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process. (GS or Sr)

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3) How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments. (GS or Sr)

PAD 6041 ETHICS AND PUBLIC SERVICE (3) The purpose of this course is to provide students with an understanding of the ethical dimensions of public service, with particular attention focused on the role, duties, and responsibilities of the public administrator. Additionally, the course seeks to help students develop the awareness, skills and value framework to act ethically in their public service and management roles.

PAD 6044 ENVIRONMENT OF PUBLIC ADMINISTRATION (3) Examination of the legal, political, and ethical environment in which public managers work.

PAD 6056 PRACTICE OF PUBLIC MANAGEMENT (3) An integrative course applying the skills, knowledge, and values taught in the core curriculum and applied to public issues or problems. (PR: Completion of all MPA core courses and five electives. Must be taken in last semester of coursework).

PAD 6060 PUBLIC ADMINISTRATION THEORY (3) Examination of major theoretical and practical developments in Public Administration with focus on organization theory and current research trends in the field. (GS)

PAD 6101 PUBLIC ORGANIZATIONS (3) An in-depth study of the nature of public organizations, with emphasis on the structure and process of modern bureaucracy. Topics include comparison of private and public organizations and sources of organizational change.

PAD 6105 PUBLIC ORGANIZATION CHANGE (3) Introduction to problems, diagnosis, strategies, and methodology of changing public organizations.

PAD 6144 NONPROFIT MANAGEMENT AND LEADERSHIP (3) Role and importance of third-sector organizations in American society; unique problems of nonprofit organizations.

PAD 6146 RESOURCE DEVELOPMENT: FUNDRAISING AND GRANTSMANSHIP (3) Administration and management of the fundraising process, principles, skills, methods, and techniques, administration and management of the grantsmanship process.

PAD 6207 PUBLIC FINANCIAL ADMINISTRATION (3) Examination of the fiscal organization of federal, state, and local governments. Current problems in budgeting, revenue, and indebtedness are considered. (GS)
PAD 6222 ISSUES IN FLORIDA--BUDGETING AND FINANCE (3) Selected issues in public financial management and budgeting related to state agencies or local governments in Florida.

PAD 6227 PUBLIC BUDGETING (3) Development, authorization, execution, and assessment of government budgets. Topics include current trends and issues in budget theory and practice, as well as reform efforts.

PAD 6307 POLICY ANALYSIS, IMPLEMENTATION, AND PROGRAM EVALUATION (3) An introduction to analyzing public problems, program development, implementation, and evaluation. Emphasis is placed on the methodological tools and techniques used in the analysis and evaluation of public programs.

PAD 6331 COMMUNITY DEVELOPMENT PROGRAMS AND STRATEGIES (3) Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.

PAD 6332 STRATEGIC PLANNING FOR PUBLIC AND NONPROFIT ORGANIZATIONS (3) Emphasizes methods of strategic planning as tools to lead, strengthen, and develop public and nonprofit organizations.

PAD 6334 URBAN LAND USE AND POLICY ADMINISTRATION (3) Focuses on the political, economic, and legal environment of urban land development. Examines public policies affecting the spatial distribution of urban land activities, overt and covert rationales of such policies; zoning; subdivision regulations; building codes, and other urban land use control measures.

PAD 6339 HOUSING AND PUBLIC POLICY (3) Explores housing policy in the broader context of public policy. Examination of housing market theories and the relationships between housing and city and regional planning.

PAD 6357 URBAN GROWTH MANAGEMENT (3) Examines the political economy of controlling the growth and development of human settlements, regulatory and non-regulatory techniques of growth management, and the evolution of growth management practices in the U.S.

PAD 6307 POLICY ANALYSIS AND PROGRAM EVALUATION (3) An introduction to analyzing public problems and program development. Emphasis is placed on the methodological tools for analyzing public problems, and criteria to assess the value of programs in addressing public problems.

PAD 6417 HUMAN RESOURCE MANAGEMENT (3) A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service. (GS or Sr)

PAD 6427 PUBLIC SECTOR LABOR RELATIONS (3) A political-legal approach to understanding public sector collective bargaining in the United States. Topics include civil service reform, affirmative action, and equal employment opportunity.
PAD 6703 QUANTITATIVE AIDS FOR PUBLIC MANAGERS (3) Survey of techniques and models used in analyzing managerial/policy problems. Topics include microcomputer applications of statistical techniques, cost-benefit analysis, decision theory, linear programming, PERT, and Delphi. (PR: POS 5736, SYA 6305 or CI)

PAD 6710 COMPUTER APPLICATIONS IN PUBLIC ADMINISTRATION (3) Introduction to computers and information management systems in public sector organizations. Topics include microcomputers, data management, structured systems analysis, algorithm development, data base design concepts, and design support systems.

PAD 6907 INDEPENDENT STUDY (1-3) A flexible format for conceptual or theoretical studies in public administration. Rpt. to 4 hours. S/U. (PR: CI)

PAD 6909 PROBLEM REPORT (3) Analysis of a significant administrative or policy problem facing a public agency or manager. Majors only.

PAD 6915 DIRECTED RESEARCH (1-3) A flexible format for structured field research in Public Administration. Rpt. up to 6 hours. S/U. (PR: CI)

PAD 6934 SELECTED TOPICS IN PUBLIC ADMINISTRATION (1-3) A flexible format to offer specialized courses not available within the regular curriculum. Rpt. as topics vary.

PAD 6946 INTERNSHIP IN PUBLIC ADMINISTRATION (4-6) Structured learning and work experience in a public agency or non-profit organization. Majors only. Rpt. to 6 hours. S/U (PR: CI)

POS 6159 URBAN POLICY ANALYSIS (3) Examination of the organizational and administrative aspects of planning, program development, reporting and evaluation at the local level by state, regional, and other agencies. (GS)

PUP 6007 SEMINAR IN PUBLIC POLICY (3) Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy. (GS)

URP 6056 CITY AND REGIONAL PLANNING (3) A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues. Cross-listed with political science. (GS)
Rehabilitation and Mental Health Counseling (REH/REF)

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2855
e-mail address
WebAddress: http://www.cas.usf.edu/rehab_counseling/index.html

Chairperson: William Emener
Program Director: Susan Kelley

Faculty: Charlotte G. Dixon, William G. Emener*, Timothy D. Evans, Joseph J. Ferrandino,
Susan D.M. Kelley, C.M. Pinkard (Emeritus), John D. Rasch, T.J. Wright,
*Distinguished Research Professor

Degrees Offered: M.A.

The Department of Rehabilitation and Mental Health Counseling trains counselors to
work with physically, mentally, emotionally, and chemically disabled individuals. Training
emphasizes psychological, social, medical, and vocational aspects of disability, and also
the development and refinement of personal adjustment counseling skills. Graduates with
this M.A. are prepared for careers as both rehabilitation specialists and mental health
counselors.

The Department offers only the M.A. degree. Most students are admitted after
earning a baccalaureate degree in one of the behavioral, social, health-related, or educational
disciplines (REH). A Five-Year Program (REF) is available to undergraduates with strong
academic credentials, and undergraduates interested in this program should contact the
department during their sophomore year.

The graduate program in Rehabilitation and Mental Health Counseling is fully
accredited by the Council of Rehabilitation Education (CORE). Upon completion of the
program, graduates are eligible to sit for the national examination to become a Certified
Rehabilitation Counselor (CRC). With additional course work and 3 years’ experience,
graduates are also eligible to take the examination for state licensure as a Mental Health
Counselor. For a complete description of the department and its program, visit the
department’s Web page at: http://www.cas.usf.edu/rehab_counseling/index.html

M.A. in Rehabilitation and Mental Health Counseling

Additional Admission Requirements
1. Application Deadlines: For Fall semester, March 30; for Spring, October 15
2. Three letters of recommendation,
3. A personal interview may be required at the discretion of the Department.
4. An acceptable undergraduate social science introductory statistics course or
equivalent
5. Students without this statistics background must complete such a course during
the first semester after acceptance.

Enrollment is limited and applications are judged competitively. Meeting minimum
admission standards does not guarantee acceptance.
Students admitted through the Five-Year Program (REF) must have completed 90 hours of work and have satisfied General Distribution, CLAST, and Rule 6A-10.30 (Gordon Rule) requirements. Minimum admission requirements include a combined (Verbal and Quantitative) score of at least 1000 on the GRE, or a “B” average on all work beyond 60 hours. All applicants must take the GRE. Five-year program students may earn a baccalaureate degree in another major under the conditions specified in the Undergraduate Catalog.

**Program Requirements**

The department offers both a thesis and a non-thesis program. There is no language requirement; however, a comprehensive examination is required of all students.

The following 54-hour core curriculum is consistent with national certification standards for rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

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<th>Course Code</th>
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<th>Credits</th>
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<td>RCS 5080</td>
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<td>RCS 6300</td>
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<td>RCS 6930</td>
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**Non-Thesis**

Students in the non-thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (REH) and 150 hours in the Five-Year Program (REF). Electives may be taken from Rehabilitation and Mental Health Counseling offerings or from offerings outside the department with the consent of an advisor.

**Thesis**

All students are initially admitted to the non-thesis program. Admitted students may subsequently apply to the faculty for a thesis program. Students in a thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (54-hr.) core curriculum plus a minimum of 3 hours of RCS 6970, and no less than 150 hours in the Five-Year Program (including 54-hour core curriculum plus 3 hours of RCS 6970). Additional hours to complete the minimum of 150 hours for students in the Five-Year Program may be elected from other Rehabilitation and Mental Health Counseling offerings or from related programs with the consent of the advisor. An oral defense of the thesis is required.

**Graduate Certificate in Addictions and Substance Abuse Counseling**

For human services professionals and graduate students in social work, rehabilitation counseling, mental health counseling, psychology, gerontology, and similar fields. Classes available evenings.

**Certificate Requirements**

This Certificate program involves five courses in the Department of Rehabilitation and Mental Health Counseling:

(a) RCS 5450 Seminar: Substance Abuse I
(b) RCS 6459 Seminar: Substance Abuse II
(c) RCS 6930 Seminar: Employee Assistance Programs
(d) RCS 6930 Seminar: Substance Abuse Counseling
(e) RCS 6455 Practicum (special section for Certificate students)
Graduate Certificate in Marriage and Family Therapy
For human service professionals and graduate students in social work, rehabilitation counseling, mental health counseling, psychology, gerontology, and similar fields.

Certificate Requirements
This certificate program involves five courses in the Departments of Rehabilitation and Mental Health Counseling and Social Work:

a. RCS 6930 Dynamics of Marriage and Family System Theory
b. RCS 6930 Family Therapy and Techniques*
c. RCS 6930 Marriage and Couple Therapy
d. RCS 5404 Fondations of Mental Health Counseling
e. RCS 6455 Practicum (Special section for certificate students)

*Social work students will take Family Therapy with Children and Adolescents.

Course Descriptions:

RCS 5035 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3) Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.

RCS 5080 MEDICAL ASPECTS OF DISABILITY (3) A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5404 FOUNDATIONS OF MENTAL HEALTH COUNSELING (3) A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions, and current issues in the discipline of mental health counseling. (PR: CC)

RCS 5406 HUMAN GROWTH AND DEVELOPMENT (3) Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction, settings.

RCS 5450 SUBSTANCE ABUSE (3) An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment. (PR: CI)

RCS 5700 LEGAL, ETHICAL, PROFESSIONAL STANDARDS AND ISSUES IN COUNSELING (3) An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards, and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905 DIRECTED STUDIES (1-4) Supervised rehabilitation studies under the direction of a faculty member. Rpt. to 8 hours. (PR: CI)

RCS 6220 INDIVIDUAL EVALUATION AND ASSESSMENT (3) Examines assessment procedures utilized in rehabilitation and mental health counseling settings and critical issues in the evaluation of people who are mentally and physically disabled.
RCS 6300 CAREER AND LIFESTYLE ASSESSMENT (3) Career development, lifestyle, and related factors with special emphasis on the needs of individuals with disabilities. Includes job placement and a survey of work requirements in different occupations and how these relate to functional limitations.

RCS 6407 COUNSELING THEORIES AND PRACTICE (3) An extension and intensification of the rehabilitation and mental health counseling skills developed in RCS 5404. Includes the study of counseling theories and their contribution to successful counseling and rehabilitation practice. (PR: RCS 5404, RCS 5700)

RCS 6408 DIAGNOSIS AND TREATMENT OF PSYCHOPATHOLOGY (3) Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.

RCS 6455 PRACTICUM IN COUNSELING (3) Field work experience in Rehabilitation mental health counseling. (PR: CI)

RCS 6459 SUBSTANCE ABUSE II (3) An extension of RCS 5450 with emphasis on family problems and approaches to counseling and working with alcohol and other substance abuse. (PR: 5450 or CI).

RCS 6470 SOCIAL AND CULTURAL FOUNDATIONS OF COUNSELING (3) Counseling issues in a multicultural and diverse society. Special emphasis on psychosocial adjustment and counseling for individuals with physical and mental disabilities.

RCS 6510 GROUP THEORIES AND PRACTICE (3) Theoretical and empirical issues in group counseling are examined in the context of an ongoing group. Emphasis is on application to rehabilitation and mental health counseling.

RCS 6740 RESEARCH AND PROGRAM EVALUATION (3) Training in the evaluation and utilization of available research studies and the development of research skills. An individual research project is required. (PR: RCS 5700)

RCS 6825 INTERNSHIP (3) Student placement in an approved internship setting for a minimum of 600 hours of supervised experience. S/U. (PR: CR, All required courses in M.A. program., CC)

RCS 6906 INDEPENDENT STUDY (1-19 Var.) Independent study where the student must have a contract with a faculty member. Rpt. S/U. (PR: CC)


RCS 6930 SEMINAR IN REHABILITATION COUNSELING (1-4) Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor. Rpt. with different content. (PR: CI)

Religious Studies (REL)

4202 E. Fowler Avenue, CPR 107
Tampa, Fl 33620
(813) 974-2221
e-mail address
WebAddress: http://www.cas.usf.edu/

Chairperson: John Morreall
Program Director: James F. Strange

Faculty: Dell deChant, Darrell J. Fasching, Danny Jorgensen, Sara Mandell, Mozella G. Mitchell, John Morreall, Jacob Neusner*, Tamara Sonn, James F. Strange

*Magnus Research Professor

Degrees Offered: M.A.

The M.A. degree in Religious Studies provides opportunities for students with backgrounds in the scholarly study of religion to expand their knowledge of the social, cultural, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a wide variety of pertinent methodologies and theoretical perspectives. This degree serves the needs of students interested in teaching or counseling. It will be of special value to those interested in pursuing a doctorate in religious studies. A joint M.A. in Religious Studies and Education in available for those interested in pre-collegiate level teaching.

M.A. in Religious Studies

Additional Admission Requirements
1. An undergraduate degree in Religious Studies, or equivalent preparation. Other undergraduate majors are acceptable, but students may be required to acquire additional competence in Religious Studies without receiving graduate credit.
2. A minimum score of 1000, including a minimum verbal score of 600, on the GRE.

Program Requirements
Students select a major professor and develop a plan for completing a minimum of 36 credit hours, including a 6-credit thesis project. The plan of study is subject to approval of the Graduate Committee. A majority of these courses will be in religious studies, although the plan may include approved courses in other departments. No more than 6 credit hours of 4000-level courses may be counted for graduate credit. There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to demonstrate expertise in at least two religious traditions, as well as satisfactorily complete a written, comprehensive examination wherein they demonstrate competence in: 1) pertinent theoretical issues and research methodologies; 2) the analysis and interpretation of related texts, artifacts, and activities; and 3) social and historical contexts of the religions studied. The Department of Religious Studies "Graduate Student Handbook" should be consulted for additional information about basic requirements and specific procedures.
Course Descriptions:

REL 6035 PRO SEMINAR: THE GRADUATE STUDY OF RELIGION (3) An introduction to research methods used in Religious Studies proper and those borrowed from other disciplines. In the former are comparative religion, religious hermeneutics, and theological analysis. Among the latter are comparative literature, literary criticism, sociology, philosophy, and historiography. (PR: GS in the Department of Religious Studies)

REL 6143 RELIGION, CULTURE, AND SOCIETY (3) Scholarly study of religion in its complex relationship of culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions.

REL 6182 FAITH AND REASON IN WESTERN RELIGIOUS ETHICS (3) A seminar course examining the history of Western thinking about morality and its relation to religion. Concepts including faith, reason, right and wrong, values, virtue, duty, obligation, rights, and justice are explored, in light of theories about the nature of morality.

REL 6175 RELIGION, ETHICS AND PUBLIC POLICY (3) This seminar will explore the relation between religion, ethics, the social sciences, and social policy. Problems of ideological conflict and ethical relativism will be examined, as well as possible religious and theoretical foundations for a normative ethics of social change.

REL 6178 COMPARATIVE RELIGIOUS ETHICS (3) This seminar explores key issues and the diverse methodological approaches to the comparative study of religious ethics, including history of religions, social scientific, philosophical and theological approaches.

REL 6285 STUDIES IN BIBLICAL ARCHAEOLOGY (3) A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, and reconstruction of culture from archaeological evidence.

REL 6327 SEMINAR: ANCIENT RELIGIONS AND LITERATURES (3) A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystic Religions, Pseudepigrapha, and others taught in translation. Rpt. with different subject matter three times.

REL 6328 RELIGION AND CULTURE OF THE WEST (3) Examines some of the most important religious literature of the Western World -- Jewish, Christian, and Islamic -- attempting to understand each classical expression within its own historical and cultural context.


REL 6617 THE HISTORY OF JUDAISM: THE FORMATIVE AGE (3) The history of how the Judaism that predominated from the first century to the present took shape in the first six centuries AD. (PR: REL 3602)

REL 6906 INDEPENDENT STUDY (1-3) Independent study for which the student must have a contract with the instructor. (PR: GS, ML)
REL 6911 DIRECTED RESEARCH (1-3) Individual guidance in concentrated reading in a carefully delimited area of religious studies research skills. Rpt. Majors only. (PR: GS, ML)

REL 6938 SPECIAL TOPICS IN RELIGIOUS STUDIES (2-4) Open to non-majors. Variable titles offered on topics of special interest. Rpt. with different subject matter twice. (PR: GS)

REL 6940 GRADUATE INSTRUCTION METHODS (1-4) Offered primarily for the supervision of Graduate Teaching Assistants. Var. S/U.

REL 6971 THESIS: MASTER'S (1-19 Var.) Rpt. S/U (PR: GR. ML, majors only)

WST 5318 FEMINIST SPIRITUALITY (3) Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to Goddess worship in wicca. (May also be taken for credit in Women's Studies).
Social Work (MSW)

4202 E. Fowler Avenue, SOC 107
Tampa, FL 33620
(813) 974-2063
e-mail address
WebAddress: http://www.cas.usf.edu/social-work/index.html

Chairperson: Jean E. Amuso

Faculty: Jean E. Amuso, D. Bassett, Carol K. Bennett, A. Castro, Deborah Ducett, J.A. Giordano, , Tina U. Hancock, William S. Hutchison, Jr., Philip Ouellette, Greg Paveza, Michael Rank, Cleora S. Roberts, Aaron A. Smith, P.L. Smith, Sally Speer, Anne L. Strozier, Carol Tate, Ruth Tilden

Degrees Offered: M.S.W.

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The program is fully accredited by the Council on Social Work Education. A dual-degree program is available with Public Health. A certificate is offered in Geriatric Social Work.

The primary objective of the program is preparation of the graduate for professional social work practice through acquisition of specialized knowledge and skills necessary for clinical practice with individuals, families, and groups. The secondary objectives of the M.S.W. program are: 1) to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions; 2) to contribute to the needed supply of professionally educated clinical social workers in the Tampa Bay area, the state, the region, and the nation.

The M.S.W. program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum, plus electives, and a supervised field experience designed to produce professionals with individual, family, and group practice skills.

The M.S.W. program is designed to produce specific competencies for clinical practice. Graduates of the M.S.W. program should demonstrate:

1) practice competency in relationship skills;
2) knowledge of the interrelationships in the biological, psychological, and sociocultural factors in human life, including the impact of disease, injury, and emotional distress and their implications for social work practice;
3) skill in methods of scientific inquiry for the purpose of advancing professional knowledge and practice;
4) basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention;
5) practice competency in applying a biopsychosocial approach to the assessment of human problems;
6) practice competency in applying a biopsychosocial approach to treatment of human problems through individual, family, and group modalities;
7) a basic knowledge of managerial processes in social services, including program planning, personnel management, finance, and evaluation. The M.S.W. program places great emphasis on standards of professional behavior and ethics in the practice of social work.

Entrance into the MSW program does not guarantee graduation from the program. Students admitted to the M.S.W. program must maintain a minimum GPA of 3.0, in all social work courses, with no grade below "C" counting toward graduation. Failure to maintain the specified GPA or to exhibit responsible professional behavior determined by the School may result in suspension or dismissal from the program. Courses with grades below "C" must be repeated before progressing to the next sequence. Students must pass the comprehensive exam during the last semester in order to graduate from the program.

Students may pursue the M.S.W. program on either a full- or part-time basis. Both programs consist of 60 semester hours of study. Students should check directly with the School of Social Work for applications and timelines. The full-time program takes four semesters to complete; the part-time program lasts for 10 semesters. Students with recently earned B.S.W. degrees from programs accredited by the Council on Social Work Education may apply for advanced standing and be exempt from up to 12 hours of foundation coursework, thus enabling them to graduate with 48 credit hours. Both the full- and part-time programs are heavily sequenced and students must stay in sequence. All students must obtain professional liability insurance prior to enrollment in field courses.

Master of Social Work (M.S.W.)

Additional Admission Requirements
Full-time students are admitted in the fall semester. Applicants are urged to apply by January 15 for fall admission; applicants for the part-time program must apply 6 months prior to admission.

1. A completed application form to the School of Social Work and to the Graduate Admissions Office.
2. Previous social service related experience preferred.
3. References from previous supervisors and faculty or advisors
4. A 500-word biographical sketch.
5. An interview with a Social Work faculty member may be required.

All applicants must attain a liberal arts background, which we define as the current State of Florida University System general education requirements:

- 6 hours English Composition
- 6 hours Humanities
- 6 hours Quantitative Math (courses such as computer operations, statistics, or logic of numbers may be acceptable substitutes)
- 6 hours of Natural Sciences (one of which must be Human Biology or an equivalent such as: Food and Drugs, Human Sexuality, or Sex, Reproduction, and Population)
- 6 hours Social Sciences or their equivalent

Program Requirements (non-B.S.W. students)

A. Human Behavior and Social Environment Courses
   SOW 6105 (3) SOW 6114 (3) SOW 6124 (3) SOW 6126 (2)

B. Social Work Practice Courses
   SOW 6342 (3) SOW 6305 (3) SOW 6348 (2)
   SOW 6362 (4) SOW 6368 (3) SOW 6375 (3)
C. Policy and Services Courses  
SOW 6235 (3)  SOW 6236 (3)  

D. Social Work Research Courses  
SOW 6405 (3)  SOW 6425 (2)  SOW 6426 (1)  SOW 6427 (1)  

E. Supervised Field Experience  
for full-time students:  
SOW 6534 (4)  SOW 6535 (4)  SOW 6536 (4)  
For part-time students:  
SOW 6553 (1)  SOW 6554 (2)  SOW 6557 (2)  SOW 6559 (2)  
SOW 6554 (1)  SOW 6556 (2)  SOW 6558 (2)  

F. Additional Requirements: Elective hours (6) All electives must be approved.  

Summary  
Foundations Courses (12 hours)  
Advanced Courses (29 hours)  
Field Courses (12 hours)  
Electives (6 hours)  
Total (60 hours)  

Program Requirements (B.S.W. students eligible for Advanced Standing)  
A. Human Behavior and Social Environment Courses  
SOW 6114 (3)  SOW 6124 (3)  SOW 6126 (2)  
B. Social Work Practice Courses  
SOW 6342 (3)  SOW 6348 (2)  
SOW 6368 (3)  SOW 6375 (3)  
C. Policy and Service Courses  
SOW 6236 (3)  
D. Social Work Research Courses  
SOW 6425 (2)  SOW 6426 (1)  SOW 6427 (1)  
E. Supervised Field Experience  
for full-time students:  
SOW 6534 (4)  SOW 6535 (4)  SOW 6536 (4)  
for part-time students:  
SOW 6553 (1)  SOW 6555 (2)  SOW 6557 (2)  SOW 6559 (2)  
SOW 6554 (1)  SOW 6556 (2)  SOW 6558 (2)  
F. Additional Requirements Elective hours (6) All electives must be approved.  

Summary  
Advanced Courses (30 hours)  
Field Courses (12 hours)  
Electives (6 hours)  
Total (48 hours)  

Advanced Graduate Certificate in Family and Children’s Practice  
For professionals with a master’s degree in Social Work or other areas of human/social services and two years’ experience working with families and children. Courses available on multiple campuses, in the evenings, weekends, and by distance learning. Students can earn CEU’s for professional education and licensure.
Admission Requirements:
MSW or master's degree in related area and 2 years experience working with families and children.

Certificate Requirements:
18 semester hours:
  12 hours in designated social work courses
  6 hours approved electives

Course Descriptions:

SOW 5930C SELECTED TOPICS IN SOCIAL WORK (1-4) Restricted to Social Work majors, both graduate and undergraduate; other by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas. (PR: CC)

SOW 6105 FOUNDATIONS IN HUMAN BEHAVIOR (3) Introduces a systems perspective on understanding the relationships inherent in human growth and development. Special emphasis is placed on issues involving minorities, women, the disabled, various family forms, and sexual preference. (PR: CC)

SOW 6114 INDIVIDUAL GROWTH AND DEVELOPMENT THEORY (3) This course presents various theoretical perspectives in individual growth and development commonly used in clinical practice with individuals, families, and groups. Ethnic, cultural, and lifestyle differences in normative development will be addressed, as will the influence of poverty, resource deprivation, sexual stereotyping, and illness/disability on social functioning. (PR: CC)

SOW 6124 THEORETICAL PERSPECTIVES ON MENTAL DYSFUNCTIONING (3) This third course in the behavior sequence focuses on mental and emotional disorders. Content includes broad classifications of mental and behavioral disorders and their biopsychological disorders and implications of social work practice in dealing with these disorders. Majors only. (PR: CC)

SOW 6126 THEORETICAL PERSPECTIVES ON PHYSICAL DYSFUNCTIONING (2) This fourth course in the behavior sequence focuses on physical disorders and implications of social work practice in the area of long-term protracted chronic illnesses and the ensuing psychosocial disabilities. Majors only. (PR: CC)

SOW 6235 FOUNDATIONS OF SOCIAL WELFARE POLICY (3) Examines historical antecedents of social welfare as an institution and current state of social welfare programs in America. Emphasis is placed on understanding social, economic, and political forces that shape policies and programs. (PR: CC)

SOW 6236 SOCIAL WELFARE POLICY ANALYSIS AND DESIGN (3) Presents various methods of policy analysis with emphasis on distinctions among legislative, administrative, and judicial policy. Examines roles and responsibilities of the professional practitioner in the policy process. (PR: CC)
SOW 6305 FUNDAMENTALS OF SOCIAL WORK PRACTICE (3) Describes full range of social work interventions, from micro to macro. Historical development of practice methods and survey of current techniques. (PR: CC)

SOW 6342 INDIVIDUAL, FAMILY AND GROUP TREATMENT I: Individual (3) Application of clinical practice to work with individuals. Psychosocial model is emphasized. Professional laboratory develops skills in practice. (PR: CC)

SOW 6348 THEORIES OF MULTICULTURAL PRACTICE (2) Theories for clinical practice, with emphasis on the psychosocial model. Explores basic skills for clinical practice. (PR: CC)

SOW 6362 INDIVIDUAL, FAMILY AND GROUP TREATMENT III: Family (3) Emphasizes selection of techniques in the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. (PR: CC)

SOW 6368 INDIVIDUAL, FAMILY AND GROUP TREATMENT II: Group (3) Focus on psychosocial model of group treatment. Comparison with individual and family modality. (PR: CC)

SOW 6375 MACRO PRACTICE SEMINAR (3) Studies facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations. (PR: CC, SOW 6368)

SOW 6405 FOUNDATIONS OF SOCIAL WORK RESEARCH AND STATISTICS (3) This is the first of four research methods courses intended to introduce students to the various methods, designs, measurements, and statistical techniques in social work research.

SOW 6425 CLINICAL RESEARCH (2) This is the second in a series of four required research courses. It focuses on the design and implementation of evaluation studies in social work.

SOW 6426 FIELD RESEARCH I (1) This is the third in a series of four research courses. It provides the structure for supervision of graduate research projects. (GS in Social Work only)

SOW 6427 FIELD RESEARCH II (1) This is the fourth and final research course. It provides the mechanism for supervision of the graduate research project. (GS in Social Work only)

SOW 6534 FIELD INSTRUCTION I (3) Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 2-hour practice seminar. S/U. (PR: CC)

SOW 6535 FIELD INSTRUCTION II (6) Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar. S/U. (PR: CC)

SOW 6536 FIELD INSTRUCTION III (4) Supervised field instruction in a social service agency, consisting of 24 hours per week, plus a 2-hour practice seminar. S/U. (PR: CC)
SOW 6553 FIELD INSTRUCTION SEQUENCE IA: PART-TIME (2) this is the first of a series of seven field instruction courses designed to provide students with opportunities to develop beginning clinical social work competency in applying knowledge to practice situations. (PR: SOW 6114, SO 6348; CR: SOW 6124)

SOW 6554 FIELD INSTRUCTION SEQUENCE IB: PART-TIME (1) This course is the second of seven sequential courses. Each consists of 10-15 hours per week of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6553)

SOW 6555 FIELD INSTRUCTION SEQUENCE IIA: PART-TIME (2) This course is the third of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6554)

SOW 6556 FIELD INSTRUCTION SEQUENCE IIB: PART-TIME (2) This course is the fourth of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6555)

SOW 6557 FIELD INSTRUCTION SEQUENCE IIC: PART-TIME (2) This course is the fifth of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6556)

SOW 6558 FIELD INSTRUCTION SEQUENCE IIIA: PART-TIME (2) This course is the sixth of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6557)

SOW 6559 FIELD INSTRUCTION SEQUENCE IIIB: PART-TIME (2) This course is the last of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor. (PR: SOW 6558)

SOW 6900 INDEPENDENT STUDY (1-3) A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by School Director. (PR: Admission to MSW program, CC)

SOW 6931 SELECTED TOPICS IN SOCIAL WORK (1-4) Restricted to MSW students; others by School permission. (PR: CC)
Sociology (SOC)

4202 E. Fowler Avenue, CPR 107
Tampa, Fl 33620
(813) 974-2893
e-mail address
WebAddress: http://www.cas.usf.edu/

Chairperson: Donileen Loseke
Program Director: Michael Kleiman

Faculty: R. Buenteo, Spencer Cahill, James Cavendish, Carolyn S. Ellis, Jennifer Friedman, Laurel Graham, Sara Green, Roy Hansen, Michael B. Kleiman, Donileen Loseke, Christy Ponticelli, S. Stamps

Degrees Offered: M.A.

The Sociology M.A. program provides a foundation in a broad range of sociological theories and research methods and an opportunity for pursuing specialized interests in elective Sociology courses, courses in other departments, and thesis research. Many of our M.A. recipients continue in sociology Ph.D. programs. Others teach in secondary schools and junior colleges, are employed in mental health services and research, in human resources management, and government organizations, or work as research consultants and market analysts.

M.A. in Sociology

Additional Admission Requirements

1. Deadlines: The department follows the University admission date, but students who desire full consideration for financial aid should submit completed applications by April 1, for Fall admission and by October 15, for Spring admission.

2. Applicants should submit two letters of reference from previous instructors, and a sample of written work.

3. A TOEFL score is required of all international students.

It is advisable for an applicant to hold a baccalaureate degree which provides background in sociological theory and research methods. Students without training in Sociology, who otherwise meet requirements for admission, may be asked to take additional undergraduate courses in Sociology prior to admission. These additional courses will be specified by the graduate director in consultation with the department graduate committee.

Students may enroll in graduate courses as a non-degree seeking student without formal application to the degree program, if they obtain permission from the graduate director. Students subsequently accepted into the Graduate Program may transfer up to 12 hours taken as a non-degree seeking student toward fulfilling M.A. degree requirements.

Applications and documents should be sent to the Office of Graduate Admissions. Query letters and letters of reference should be sent to the Sociology Department. Contact the Department of Sociology for further information.
Program Requirements
The Sociology Department has both a thesis and non-thesis option. The thesis project is carried out under the supervision of a faculty member chosen by the student. For students electing to complete a thesis, 6 of the required 36 hours are taken as thesis hours. For students electing the non-thesis option, 6 hours of graduate level courses in the Sociology Department shall be completed in lieu of thesis hours. Oral comprehensives are required for the thesis option and are taken during the thesis defense. Written comprehensives are required for the non-thesis option. Required courses include:

SYA 6126 (3) SYA 6305 (3) SYA 6405 (3) SYA 6505 (3)
SYA 6971 (6) SYA 6175 (3) or SYA 6315 (3)

Six of the additional 15 required hours must be in scheduled graduate courses in the Sociology program. The other 9 hours can be in independent study, directed research, 4000 level courses in Sociology or in approved courses in other departments.

Course Descriptions:

SYA 6126 CONTEMPORARY SOCIOLOGICAL THEORY (3) Emphasizes logical and conceptual dimensions of theory and theory construction. (PR: Undergraduate course in sociological theory or CI)

SYA 6175 THEORIES IN COMPARATIVE HISTORICAL SOCIOLOGY (3) An introduction to theoretical ideas and classic texts in comparative historical sociology and closely related areas of discourse.

SYA 6305 METHODS OF RESEARCH (3) Logic and practice of research; problems of observation and data collection, data processing, and evaluation. (PR: Course in social investigation or CI)

SYA 6315 QUALITATIVE RESEARCH METHODS (3) Designed to introduce students to qualitative research methods, such as participant observation and intensive interviewing that require the researcher to get close to the social situation of interest. (PR: Undergraduate course in methods or CI)

SYA 6405 SOCIOLOGICAL STATISTICS (3) Logic and application of parametric and nonparametric statistical analysis for sociological data. (PR: STA 3122 or CI)

SYA 6475 COMMUNITY ANALYSIS (3) Theories of community and community organization. Methods of community study; problems of urban areas. (PR: Course in urban sociology or CI)

SYA 6505 THE COMMUNICATION OF SOCIOLOGY (1-3) Designed to help student define and formalize more effective efforts at communicating sociology. Majors only.

SYA 6909 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CC)

SYA 6933 SPECIAL TOPICS-SOCIOLOGY (3) Content varies according to interests of students and instructor. Rpt. (PR: CI)


SYO 6125 FAMILY ANALYSIS (3) Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles. (PR: Course in family or CI)

SYO 6406 SOCIOLOGY OF HEALTH AND ILLNESS (3) Survey of core concepts and current research in the sociology of health and illness: social correlates of disease, health care utilization, physician-patient relations, medical compliance, and illness behavior. (PR: GS)

SYO 6545 COMPLEX ORGANIZATIONS (3) Organizational theory, bureaucratic models, authority, power legitimation, and types of formal organization. (PR: Course in social organizations or CI)
Women's Studies (WST)

4202 E. Fowler Avenue, FAO 100U
Tampa, Fl 33620
(813) 974-3496
e-mail address
WebAddress: http://www.cas.usf.edu/womens_studies/index.html

Chairperson: Ofelia Schutte
Program Director: Carolyn DiPalma

Faculty: Ingrid Bartsch, Carolyn DiPalma, Carolyn Eichner Gurleen Grewal, Linda Lopez McAlister, Marilyn Myerson, Ofelia Schutte, Janice B. Snook, Kim M. Vaz

Degrees Offered: M.A.

The M.A. in Women's Studies requires the completion of 36 credit hours. The program has two tracks: a research option that requires a thesis and an applied option that requires an internship and subsequent analytic report on the internship experience. This format was designed to serve the needs of a variety of different categories of students desiring a graduate degree in Women's Studies. The thesis option is recommended for students who intend eventually to pursue a doctoral degree. The internship option is recommended for students who seek the M.A. as a terminal degree.

Additional Admission Requirements

1. Applicants should submit a Personal Narrative/Statement of Purpose that details (a) academic preparation, (b) background, (c) experience in women's studies and feminism, and (d) what the applicant intends to do with the M.A. in women's studies.
2. A sample of the applicant's written work
3. Three letters of recommendation.
4. Ideally, applicants will have an undergraduate degree in Women's Studies or present evidence of a strong background in the field. Applicants without training in Women's Studies, who otherwise meet the requirements for admission, may be asked to take additional undergraduate courses prior to admission to the graduate program.

Students may enroll in graduate courses as non-degree seeking students without formal application to the M.A. program if they obtain permission from the graduate director. Students subsequently accepted into the M.A. program may transfer up to 12 hours taken as a non-degree seeking student toward fulfilling M.A. degree requirements.

Application forms and documents should be sent to the Office of Graduate Admissions. The Personal Narrative, writing sample, and letters of reference should be sent to the Graduate Director, Department of Women's Studies.
Program Requirements
The M.A. in Women’s Studies requires the completion of thirty-six credit hours. These hours are divided as follows:

1. Four required core courses (12 cr. hrs.) Chosen from WST 6001, WST 6266 and three additional courses currently being offered under WST 5934 Selected Topics:
   - Advanced Feminist Theory
   - Feminist Challenges to Traditional Paradigms
   - Scholarship and Pedagogy in Women’s Studies

2. Elective courses (18 cr. hrs.) to be selected from a) courses offered by the Department of Women’s Studies, up to six cr. hrs. of which may be 4000-level courses, b) graduate courses on women and issues surrounding the intersection of gender/class/race offered by other departments, c) no more than one other graduate-level course approved by the graduate director.

Thesis
Six credit hours of thesis research, typically over two semesters, during which the student will develop a thesis prospectus approved by the student’s thesis committee and complete a Master’s thesis on the approved topic.

Non-thesis
Six credit hours of internship experience, typically over two semesters, in a human service agency or other institution or organization that deals primarily with women. The internship will be approved by the student’s internship committee. The student will be required to write a narrative report describing the internship in detail and analyzing the experience in terms of appropriate theoretical frameworks.

Comprehensive Examinations
Each student must pass a written comprehensive examination. It is expected that a student will successfully complete the comprehensive examination prior to beginning thesis or internship work.

Course Descriptions:

**PHM 5125 TOPICS IN FEMINIST PHILOSOPHY** (3) Study of recent feminist philosophical approaches to epistemology, aesthetics, or political philosophy. (May be taken for credit in Philosophy.)

**WST 5318 FEMINIST SPIRITUALITY** (3) Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women’s experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to Goddessworship in wicca. (May also be taken for credit in Religious Studies)

**WST 5934 SELECTED TOPICS** (1-4) Study of current research methods and scholarship on women from a multi-disciplinary perspective. Rpt. as topics vary. (CI)

**WST 6001 FEMINIST ISSUES, RESEARCH, METHODS** (3) To develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student’s graduate course of study. Available to non-majors; may not be repeated.
WST 6406 WOMEN OF COLOR/ACTIVISM AND SOCIAL CHANGE (3) Intensive reading and discussion of the participation of women of color in contemporary and reformist activities

WST 6900 DIRECTED READINGS (1-3) Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor. Rpt. (PR: CI)

WST 6910 DIRECTED RESEARCH (1-3 Var.) Provide graduate students with research experience in areas of specific interest utilizing feminist perspectives and research methods. Rpt. up to 6 hrs. (PR: CC and signed contract)
COLLEGE OF BUSINESS ADMINISTRATION

4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620
(813) 974-4281
WebAddress: http://www.coba.usf.edu

Dean: Robert L. Anderson
Associate Dean: Richard L. Meyer
Assistant Director of Graduate Studies: Wendy Baker

In the College of Business Administration, graduate programs are designed to make graduate level professional education available to qualified persons who seek managerial and professional positions in business, government, or education. Programs support research activity so vitally necessary to maintain a quality graduate faculty and program, as well as foster the independent, innovative thinking and action appropriate to a professional individual.

Degrees Offered:
- Master of Business Administration
- Master of Accountancy
- Master of Arts in Economics
- Master of Science in Management: Information Systems
- Master of Science in Management: Leadership and Organizational Effectiveness
- Ph.D. in Business Administration

Accreditation The M.B.A., M.S. in Management: Information Systems, M.S. in Management; Leadership and Organizational Effectiveness, and Master of Accountancy and M.A. in Economics programs in the College of Business Administration are accredited by the American Assembly of Collegiate Schools of Business (AACSB). The College also is a member of the Graduate Management Admission Council (GMAC).

Financial Aid
Qualified individuals may apply for various forms of financial aid from the college. Apply to the Director of Graduate Studies, College of Business Administration, University of South Florida, Tampa, FL 33620 for graduate assistantships or scholarships (apply by April 1 for the following academic year).
Additional Admissions Requirements

1. Applicants must have an undergraduate degrees from accredited institutions in the United States or from a recognized academic institution in a foreign country.
2. While academic credit is not awarded for past work experience and is not a requisite for admission to the program, it is a meaningful background and will enable the student to understand more readily the subject matter in a curriculum.
3. In addition to the test scores (GMAT or GRE), the applicant’s motivation in undertaking graduate work and the degree of focus in the applicant’s career plans are important factors in the admission process.
4. Students are admitted into the M.B.A. Program for either the fall or spring semesters, but the fall term is the preferred entrance date for the student who requires all or approximately all of the Common Body of Knowledge courses. Ordinarily, new students will not be accepted in the M.B.A. or M.S. in Management programs for the summer term.

Non-Degree Seeking Students
The College of Business Administration will approve, on a space available basis, non-degree seeking student status only for transient students (degree-seeking students at another accredited institution) or for students with valid reasons to register in this status and who meet all admission requirements.

Organizations and Centers

The Center for International Business has been established as a major resource for international business education, community development, and research in the West-Central Florida area. It is committed to:
- Ensuring that USF provides its students with excellent preparation for business careers in the global economy.
- Conducting community outreach that enhances international business activity and capability in the West-Central Florida area.
- Promoting and facilitating research on important international business and economic issues.

Office of Corporate Development (OCD) is one of the University’s economic development outreach programs which is administered through the College of Business Administration. The OCD assists technology-based companies by providing management and financial assistance. It promotes economic development through ongoing private/public relationships to create and grow companies in medical, information systems, environmental and aerospace industries.

The Small Business Development Center offers assistance in facilitating the initiation and growth of entrepreneurial forms of private enterprise. It offers workshops and individual consultation. A continued support system is provided for its clients to ensure successful implementation. Faculty members and students under faculty direction provide assistance on feasibility studies for new business organizations and for expansions of the product lines of existing firms.

The Center for Economic Development Research (CEDR), previously known as the Center for Economic and Management Research, was re-staffed and re-directed at the beginning of 1998. The center serves as research support for regional economic development, and to support the University’s mission in regional economic development.
CEDR is an informational resource for the University and the Community. Throughout its history, the Center has supplied data upon demand to the faculty and staff of USF and to individuals and organizations in the University's service area. The Center has provided descriptive and evaluative studies of regional and State interest based upon its data resources, and will continue to utilize its informational resources and its expertise to produce reports and analyses of local, regional, and national business conditions. Acquisition and maintenance of regional data on employment and business is consistent with its preliminary selection of core competencies.

The Institute for Information Systems Management (IISM) was established as a partnership between business, government and higher education. Its mission is to establish a major center for research, education and professional networking that will help firms operate effectively in the information age. Each year the Institute presents numerous seminars, workshops, and round-table discussions on important issues in Information Systems Management and conducts applied research on topics of interest to its corporate affiliates. IISM resides in the College of Business Administration and can be reached during normal business hours at (813) 974-5524.
Business Administration

4202 E. Fowler Avenue, BSN 3403
Tampa, Fl 33620
(813) 974-3335
e-mail address: bcherok@coba.usf.edu
WebAddress: http://www.coba.usf.edu/programs

Associate Dean for Graduate Studies: Richard L. Meyer
Program Director: Steven Baumgarten
Assistant Program Director: Wendy Baker

Faculty: See individual department listings

Degrees Offered: M.B.A., Ph.D.

Programs:
- Master of Business Administration
- Executive M.B.A. Program
- M.B.A. Program for Physicians
- Saturday M.B.A. Program for Professionals

Master of Business Administration (M.B.A.)
The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial roles in business and not-for-profit organizations. Graduates will develop the necessary skills and problem-solving techniques that will permit them to make an early contribution to management and eventually to move into broad, general management responsibilities at the executive level. The program is designed to meet the needs of qualified men and women with undergraduate degrees from accredited universities. The College makes no distinction in the selection process between applicants with experience and those coming directly from academic life. However, experience is a meaningful background and will permit the student to better understand the subject matter to be mastered.

Additional Admission Requirements
1. GPA in last two years of undergraduate work of 3.0 or higher.
2. Acceptable scores on the GMAT, approximately 500 or higher. The two quantitative measures may be considered in combination when one factor is low and the other is high.
3. Interviews generally are not required, but may be desirable in some instances.
4. Foreign students: TOEFL of 550 or higher.

Program Requirements
The M.B.A. degree is a 57-hour program. All M.B.A. candidates must complete all degree requirements within five years of beginning the program. The full-time student without course waivers generally will need 6 semesters to complete the program. Part-time students can complete all work within a reasonable time--approximately three years without course waivers. Part-time students are encouraged to take two courses per semester and must complete 12 hours per calendar year to remain on active status as a degree-seeking student.

Students who have completed undergraduate or graduate courses in business and economics may receive course waivers and reduce their course loads from the maximum requirement. Courses are scheduled to accommodate both full-time and part-time students. All courses are at the graduate level. Students entering the program are expected to have sufficient competency in
mathematics (College Algebra and Elementary Calculus), communication skills (written and verbal), and basic computer skills. The curriculum consists of:

The Common Body of Knowledge: (CBK) courses, also known as the “TOOL” Area courses, are designed to provide basic background in the several functional areas in order to prepare for more advanced studies. The courses assume little or no prior knowledge in the field. Students having undergraduate degrees in Business Administration may be eligible for waivers, subject to standards set by the faculty. The conditions for waivers are explained more fully below.

Application Areas: The application areas encourage the development of market driven competencies and provide students with distinctive sets of knowledge and skills. Each grouping of courses allows students to position themselves in the marketplace by choosing applications that match their career goals. Students will select 3 areas of competency, each with 9 credit hours. Application areas include such subjects as:

- Advanced International Business
- Advanced Financial Institutions and Markets
- Advanced Financial Management
- Advanced Management Information Systems
- Advanced Marketing
- Economics for Business
- Entrepreneurship
- Health Care
- International Business

Leading the Customer Driven Organization
Finance
Government and Business
Management
Management Information Systems
Marketing Strategy
Quality Management
Custom designed Application Area
(designed by student in consultation with faculty)

*Advanced tracks are 6 credit hours

Competency Certification: Students will receive a certificate of achievement for the successful completion of each application sequence. Application area courses also include the opportunity to sharpen skills in writing, presentation, teamwork, technology applications, global applications, and communication.

Integrated Business Applications: Integrated Business Applications is a six credit, two semester course sequence which emphasizes the integration and utilization of techniques and methods taught in the Tool and Application areas. The sequence involves working in both group and individual projects, with “live” as well as published cases. It utilizes a variety of computer applications, and includes the development of detailed business plans.

M.B.A. Course Structure

Common Body of Knowledge, “Tool” Courses: 23 credits

- ACG 6025 Financial Accounting 2
- ACG 6075 Management Accounting & Control 2
- MAN 6055 Human Behavior and Organization 2
- ECO 6114 Managerial Economics 2
- QMB 6305 Managerial Decision Analysis 2
- ECO 6204 Global Econ. Environment of Business 2
- MAR 6815 Marketing Management 2
- FIN 6406 Financial Management 3
- ISM 6021 Management Information Systems 2
- QMB 6603 Operations Management & Quality Enhancement 2
GEB 6445  Social, Ethical, Legal Systems  2

Application Areas (Required Electives)

Application Track #1  9
Application Track #2  9
Application Track #3  9

Total Electives  27

Note: Some Application Tracks may not be offered each year. Additional application tracks may be developed based on students interests and needs.

GEB 6895  Integrated Business Applications I  3
MAN 6930  Leadership  1
GEB 6896  Integrated Business Applications II  3

Total Semester Credits Required  57

Constraints

1. The maximum credits required is fifty-seven (57). The minimum for a student with a business degree from an AACSB accredited institution within the last five years is thirty-six (36).
2. Students with an undergraduate degree in Business who are eligible to waive the tool area courses must complete an advanced course in fout of the seven areas waived. Students do not need an advanced course in their area of undergraduate major.
3. Credits earned from core courses completed under the old program will not be counted toward the minimum 36 credits required under the revised program. However, these courses will be applied toward the breadth requirement for the new program.

Note: Tool/core courses may not be counted as electives.

Thesis

Students may elect a 6 hour thesis in any of the areas of concentration of the college, subject to departmental approval.

Non-Tampa Campus Offerings

Graduate degree programs are offered on the Tampa campus. Occasionally, graduate courses are offered on the Sarasota and St. Petersburg regional campuses. Students enrolling in graduate programs on regional campuses will need to take most of their course requirements on the Tampa campus or the USF Downtown Center.

Executive M.B.A. Program

Program Director:  Katie Knoth

The Executive M.B.A. is a lock-step, 20-month, 57-credit hour AACSB accredited program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions, and senior managers who desire to significantly increase their personal and organizational effectiveness. The program provides an opportunity to broaden and enrich management skills, to extend knowledge of modern business techniques, and to further develop understanding of the social, political, and economic forces that shape the business environment and influence decision making.

Each semester begins with a three to four day residency session. Thereafter, classes are scheduled all day on alternating Fridays and Saturdays. The one-day-a-week format allows participants to continue carrying their careers while they master a range of managerial skills.

For further information and to receive a Program Catalog, please contact our office at (813) 974-4876, by email at emba@coba.usf.edu, or visit our website at www.coba.usf.edu.
The program leads to the M.B.A. and consists of the following segments:

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<th>Segment</th>
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<tr>
<td>Managerial Decision Analysis</td>
<td>Social, Ethical, Legal Systems</td>
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<tr>
<td>Financial Accounting</td>
<td>Leadership Assessment</td>
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<tr>
<td>Management Accounting and Control</td>
<td>Management Information Systems</td>
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<td>Operations Management and Quality Enhancement</td>
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<td>Taxation for Managers</td>
<td>Global Economic Environment for Bus.</td>
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<td>Human Behavior and Organization</td>
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<td>Total Quality Management</td>
<td>Financial Management</td>
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<td>Marketing Management</td>
<td>Managerial Economics</td>
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<td>International Business</td>
<td>Financial Management II</td>
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<td>Business Problems Analysis</td>
<td>Investments</td>
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<td>Bargaining Behavior and the Management</td>
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During the interim summer session, each participant, in consultation with a faculty advisor, undertakes an applied research project that focuses on a work-related problem or area of interest.

In addition, Executive M.B.A. students have the opportunity to participate in the annual two-week Overseas Study Module, which involves on-site study of international business practices. A different country/region is selected each year. Past modules have included visits to such cities as Moscow, London, Zurich, Geneva, Brussels, Tokyo, and Beijing, Mexico City, Buenos Aires, Rio de Janeiro, Hong Kong, and Italy.

### Additional Admission Requirements (Executive M.B.A.)

1. Applicants are considered for admission on the basis of individual applications and interviews.
2. Each applicant must be sponsored by his or her employer.
3. Applicants usually have 8 or more years of organizational experience, including five (5) years in a management or senior professional position.
4. A bachelor’s degree from an accredited institution is required for admission.
5. Candidates are required to take the GMAT or the GRE.

### The Saturday M.B.A. Program for Professionals

Program Contact: Katie Knoth

The Saturday Master of Business Administration (M.B.A.) Program is a 576 credit hour, 30 month, AACSB accredited program designed to meet the needs of working professionals who desire to obtain an M.B.A. degree in a non-traditional format and without career interruption. Their work experience in diverse fields brings added richness to the classroom. The classes are held for eight hours each week on Saturdays only. Classes begin each year in January.

### Additional Program Requirements (Saturday M.B.A.)

1. Applicants are considered for admission on the basis of individual applications and work experience.
2. A bachelor’s degree from an accredited institution is required for admission.
3. Candidates are required to take the Graduate Management Admissions Test (GMAT)
4. A current resume is required.
5. Basic computer knowledge is required of all students prior to entering the program.

For further information and to receive a Program Catalog, please contact our office at (813) 974-4547, by email at samba@coba.usf.edu, or visit our website at www.coba.usf.edu.
M.B.A. Program for Physicians
Program Director: Susan Stevens

The M.B.A. Program for Physicians is a 21-month, 57 credit hour, accredited program designed to meet the unique needs and demanding schedules of physicians who want to gain the business and management skills necessary to significantly increase their personal and organizational effectiveness. The program provides an opportunity for physicians to broaden and enrich their leadership skills; to extend their knowledge of modern business techniques; and to further their understanding of the social, political, and economic forces that shape the rapidly changing health care environment.

Because managerial effectiveness in an increasingly competitive yet highly regulated health care industry will require more than excellent clinical skills, the M.B.A. Program for Physicians is structured to enhance each participant’s ability to think across functional lines and to apply analytical/business decision techniques to health care management.

The two-week resident sessions at the beginning of each trimester are designed to introduce the range of topics to be covered during the trimester and to provide concentrated instruction. Formal classes meet from 8:30 a.m. to 5:30 p.m. During the six two week resident sessions, Program participants are expected to devote about 15 hours per week to course readings, case studies, problem sets, and written assignments between resident sessions. Enhanced communication and learning assistance are provided via electronic mail and teleconferencing. (All program participants are expected to have access to a computer and modem either at their work sites or their homes. An optional day-long pre-program computer course is offered to ensure that all participants are comfortable with the basics of using personal computers and computer-based communication systems.)

Additional Admission Requirements
The program is designed to meet the professional development needs of physicians who have assumed major administrative responsibilities within their own clinical areas or who want to make career transitions from clinical practice to management.

1. All participants are licensed physicians (M.D. or D.O.)
2. Two or more years of management experience is preferred but not required.
3. Admission is on a competitive basis for the limited number of spaces available.
4. There is no entrance examination required for physicians who are licensed to practice in the United States.
5. Applicants may be contacted for a personal or telephone interview.

The program leads to the academic degree of Master of Business Administration (M.B.A.) and consists of the following segments:

- Decision Support Tools
- Human Behavior and Organizations
- Managerial Decision Analysis
- Management of Professionals
- Marketing Management
- Financial Accounting for Managers
- Global Economic Envir. of Business
- Total Quality Management
- Managing Managed Care
- Management of Conflict
- Investments

- Management Accounting & Control
- Managerial Economics
- Service Operations Management
- Financial Management I
- Marketing Strategies
- Financial Management II
- Management of Information Systems
- Legal Environment of Health Care
- Health Policy Analysis
- Taxation for Managers
In addition, program participants complete an Executive Preceptorship or independent research project. The preceptorship provides the opportunity for M.B.A. candidates to work in a "mini-residency" at an approved site under the tutelage of an experienced physician-executive. The Independent Research Project allows the physician to focus on a health care management opportunity or problem of his/her interest. This innovative program feature emphasizes hands-on learning and the application of skills gained in the program to each participant's special area of interest in health care management.

Ph.D. in Business Administration
Program Contact: Cathy Slagle

The Ph.D. program offered by the College of Business Administration provides its graduates with high quality preparation for careers as college and university professors and as research and staff personnel in industry and government. The doctoral program provides for intellectual growth as students work closely with faculty in seminars, research projects, and other assignments which develop their teaching and research skills. The curriculum offers breadth of understanding of the integral components of business administration as well as depth of field specialization sufficient to permit the student to make a meaningful contribution to their discipline.

The program is sufficiently flexible to allow students to build upon individual strengths and accommodates students with various levels of preparation in a variety of fields. The program offers majors in: Accounting, Economics, Finance, Information Systems, Marketing, and Management.

Additional Admission Requirements
Admission decisions for the Ph.D. program are made by departmental and college committees on a competitive basis.

1. Deadlines: All application materials must be received by the College by February 1. Decisions on admission and assistantships are usually made by the middle of March. All students are accepted to begin their program in the Fall Semester; no January admissions are permitted.

2. Applicants should have demonstrated high levels of success in their previous academic work and a high score on the Graduate Management Admissions Test (GMAT). GMAT scores over five years old are not acceptable.

3. The student needs to be proficient in statistics (through multiple regression), college algebra, matrix algebra, differential calculus, and a computer language (such as C, Java, COBOL).

4. Students may apply after conferral of their Bachelor's degree, although a Master's degree is preferred.

5. The Ph.D. in Business Administration is a full-time program.

Program Requirements
A minimum of 90 semester hours beyond the bachelor's degree is required. This includes 21 hours of dissertation. A minimum of 45 hours of coursework must be completed at the University of South Florida.
Foundation Courses: These courses are designed to develop an appreciation of the institution of business and to help students see how their areas of specialization fit into this general picture. With the approval of the student’s program committee, a student may satisfy these requirements in any of the following ways:

A. By completing an undergraduate degree in business at an AACSB accredited institution, with an average of “B” or better in the last 60 hours, no more than 5 years prior to admission to the Ph.D. program.

B. By completing an M.B.A. degree at an AACSB accredited institution, no more than 5 years prior to admission to the Ph.D. program.

C. By completing one approved course with a grade of “B” or better in each of the functional areas: Accounting, Finance, Information Systems, Management, and Marketing. (Economics requirements are described under core requirements.) All graduate level courses at the 6000 level or above, with the exception of specific “tool” courses (e.g. statistics), will count toward this requirement.

D. By successfully petitioning the doctoral Program Committee to accept previous academic work (e.g., specialized Masters programs in business, degrees granted more than 5 years ago, etc.) in fulfillment of all or part of this requirement. Such a petition must be initiated during the first semester of the program.

Core Courses: The core courses are designed to provide a strong background in Economics and to develop the student’s quantitative and statistical research skills. These courses are required of all students in the program. The College will waive a course only if the student has passed the same or equivalent course with a grade of “B” or better within the preceding five years. The Economics requirement can be met by completing two graduate level courses, one in microeconomics and one in macroeconomics, with a grade of “B” or better. The courses which satisfy this requirement are:

ECO 6114 Managerial Economics
ECO 6204 Global Economic Environment of Business
ECO 6115 Microeconomics*
ECO 6206 Aggregate Economics*
ECO 6936 Economics of Organization*

At least one course must be taken from among those listed above with an asterisk (*).

The quantitative and statistical coursework is to be determined by the student’s program committee in consultation with the student. A three course series is required. An appropriate sequence should be chosen from the following:

ECO 6424 Econometrics I
ECO 6425 Econometrics II
GEB 6375 Applied Linear Statistical Models
QMB 7565 Introduction to Research Methods
QMB 7566 Applied Multivariate Statistical Methods

Other appropriate mathematics, statistical and quantitative courses may be approved by the college-wide committee. Any substitution of coursework should be approved at the time of acceptance, but must be approved before the student takes a substitute course. In addition, students are required to take an additional research elective approved by their advisory committee.
Should a student earn a "C" or lower in the core, the case will be brought before the Doctoral Program Committee for review. After reviewing the case, the Committee will take one of the following steps:

1. Require the student to pass the relevant preliminary examination. A student who fails the preliminary exam on the first attempt may retake it within one year. A student who fails the exam on the second attempt will be subject to dismissal.

2. Require the student to retake the course. If a student retakes the course and fails to receive a grade of "B" or better, the student is subject to dismissal.

Major Field
All students will take at least 5 courses at the 6000 or 7000 level in an area designated as the student's major. Students are encouraged to identify courses in the major field that will provide experience in applying current research techniques to problems in that field. To accomplish this, the student may propose a combination of formal classroom courses and independent directed-research courses. This combination may include a year-long research seminar in which the groundwork is laid for the student's dissertation. The specific agenda of courses will be determined by the student's program committee.

The following fields are offered as majors: Accounting, Economics, Finance, Management, Information Systems, and Marketing. Courses taken as part of the Foundation or Core sections may not be counted as part of the hours required for a major field.

Support Field
The support area will consist of a minimum of three courses from one of the fields listed under the major fields. The support area and the major field cannot be taken in the same department. Courses within the support area can be selected to complement the major field, and, in special cases, may include courses outside the College of Business. The nature and number of the support area courses will be determined by the Student's Program Committee in consultation with the Ph.D. coordinator of the support field discipline department. Courses taken as part of the Foundation or Core courses may not be counted as part of the 9 hours required for support fields.

Comprehensive Qualifying Examination
Upon completion of all coursework, students must pass a comprehensive written examination in the major area. The student's performance on this exam should reflect familiarity with the literature, as well as with current issues and problems related to these fields. A student who fails the field exam may retake it within one year. A second failure disqualifies the student from continuing the Ph.D. program. If the degree is not conferred within 5 calendar years of the comprehensive qualifying examination, a second and different examination must be taken. Students passing the field examinations are eligible for admission to candidacy for the Ph.D. program.

The decision to administer a separate comprehensive exam for a support area will be made by the department in which the support area is taken. In the event that an interdisciplinary support area is selected, any department represented by six (6) or more semester hours may require a qualifying examination. In the event that no single department represents six semester hours or more, the student's program committee will solicit input from the faculty teaching the courses in the support area. If a majority of those polled take the position that a separate comprehensive examination in the support area is not appropriate, the exam will not be administered. If a separate comprehensive examination is not administered in a support area, material from the support area will be integrated into the comprehensive exam in the major area.
Normally, qualifying examinations will be administered in October and March of each year. A student who anticipates sitting for a field exam should notify the department chair and the Associate Dean in writing during the first week of the semester in which they plan to take the exam. The exams will be a minimum of 8 hours. The Associate Dean’s Office will coordinate with the relevant department in scheduling and grading the exam.

Dissertation
21 hours of dissertation are required for the degree.

Residency Requirement
Ph.D. students in the College are required to complete a minimum of 15 hours per calendar year. Failure to meet this requirement will result in the student being placed on conditional status.

Course Descriptions

See individual departments for program specific course descriptions.

GEB 6115 NEW VENTURE FORMATION (3) An introductory entrepreneurship course. Students learn to develop venture ideas, evaluate venture opportunities and understand financial, marketing, and managerial needs of a venture. (PR: ACG 6025, MAR 6815, or CI)

GEB 6116 BUSINESS PLAN DEVELOPMENT (3) Course is designed to enable students to prepare and present a business/venture plan. Students can prepare a plan for their own venture or a “client organization.” (PR: ACG 6025; MAR 6815; or CI)

GEB 6117 CONSULTING FIELD PROJECT (3) Student will be teamed with an entrepreneurial organization and will learn to prepare a business plan, feasibility study, strategic marketing plan or some other work agreed upon by client, student and instructor. Third course in entrepreneurship Track. (PR: ACG 6025; MAR 6815 or CI)

GEB 6445 SOCIAL, ETHICAL, LEGAL SYSTEMS (2) A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces. (PR: GS)

GEB 6895 INTEGRATED BUSINESS APPLICATIONS I (3) Part I of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level. (PR: CC)

GEB 6896 INTEGRATED BUSINESS APPLICATIONS II (3) Part II of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level. (PR: GEB 6895)

GEB 6930 SELECTED TOPICS (3) The content and organization of this course will vary depending on student demand and faculty interest. Repeatable when subjects differ. (PR: Graduate Standing)

School of Accountancy (AAC)

4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620
(813) 974-4186
e-mail address: rkeith@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/accounting

Director: Robert M. Keith
Program Coordinator: William H. Parrott
Program Advisor: Theresa Price
Ph.D. Program Director: James E. Hunton


Degrees Offered: M.Acc., Ph.D.
Specializations: Master of Accountancy (M.Acc.) only: Accounting and Assurance track, Accounting Information Systems Track, and Tax Track

The objective of the M.Acc. Program is to provide candidates with greater breadth and depth in accountancy than is possible in the baccalaureate program. The Master of Accountancy Program is designed to meet the increasing needs of business and government, as well as public accounting, for persons who have in-depth professional training in accounting and a background in the areas of quantitative methodology, economic analysis, finance, etc. The M.Acc. Program may be structured to satisfy the requirements to sit for the Uniform CPA Examination in Florida.

M.Acc. - Master of Accountancy

Additional Admission Requirements

1. A score of 500 or higher on the GMAT, or a score of 1050 or higher on the GRE (GMAT is preferred).
2. Cumulative 3.0 GPA in all upper level undergraduate accounting courses.
3. Students who do not have the equivalent of an undergraduate degree in accounting at USF may be required to take additional courses. The number deemed necessary will depend on the academic background of the individual student. Upper-level accounting courses must be completed at a four-year regionally accredited institution.
4. Special consideration may be given to applicants who have an exceptionally high GPA or GMAT scores.
Program Requirements

For the student who has the equivalent of an undergraduate major in accounting at USF (including 27 hours of upper-level accounting coursework taken within the last 5 years), the program consists of 30 hours. A minimum of 21 hours of the program is devoted to the study of accounting. The remaining 9 hours consist of study in other business areas including economics, entrepreneurship, finance, and information systems/decision sciences. These 9 hours are elected by the student in consultation with the M.Acc. Advisor. M.Acc. students may select the Accounting and Assurance Track, Accounting Information Systems Track, or Tax Track.

Accounting and Assurance Track (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6346</td>
<td>Cost Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6405</td>
<td>Accounting Systems Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6636</td>
<td>Contemporary Issues in Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6875</td>
<td>Development of Accounting Thought</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6932</td>
<td>Integrative Accounting Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Two of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ACG 4501</td>
<td>Governmental/Not-for-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5201</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5675</td>
<td>Internal and Operational Auditing</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5015</td>
<td>Federal Taxation of Business Entities</td>
<td>3</td>
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</tbody>
</table>

Other business courses: Three elective courses (9 hours) outside the field of Accountancy with advanced written approval by the M.Acc. Advisor.

Accounting Information Systems Track (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6405</td>
<td>Accounting Systems Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6457</td>
<td>Accounting Systems Audit, Control, and Security</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6476</td>
<td>Contemporary Issues in Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6932</td>
<td>Integrative Accounting Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6225</td>
<td>Distributed Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Three of the following (at least one must be 6000-level):

<table>
<thead>
<tr>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6346</td>
<td>Cost Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6636</td>
<td>Contemporary Issues in Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6875</td>
<td>Development of Accounting Thought</td>
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<tr>
<td>ACG 5201</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5675</td>
<td>Internal and Operational Auditing</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5015</td>
<td>Federal Taxation of Business Entities</td>
<td>3</td>
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</tbody>
</table>

Other business courses: Two (2) elective courses (6 hours) outside the field of Accountancy.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ISM 4233</td>
<td>Information System Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>ISM 4234</td>
<td>Object-Oriented Design &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6218</td>
<td>Advanced Database Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6930</td>
<td>Electronic Commerce</td>
<td>3</td>
</tr>
<tr>
<td>BUL 4331</td>
<td>Law and the Accountant</td>
<td>3</td>
</tr>
</tbody>
</table>

Tax Track (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6932</td>
<td>Integrative Accounting Seminar</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6005</td>
<td>Advanced Partnership Taxation</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6016</td>
<td>Advanced Corporate Taxation I</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6025</td>
<td>Advanced Corporate Taxation II</td>
<td>3</td>
</tr>
</tbody>
</table>
Three of the following:

- ACG 6636 Contemporary Issues in Auditing 3
- ACG 6875 Development of Accounting Thought 3
- ACG 6436 Cost Accounting Theory 3
- ACG 6936 Tax Concepts (Selected Topics) 3
- ACG 5201 Advanced Financial Accounting 3
- ACG 4501 Governmental/Not-for-Profit Accounting 3
- ACG 5675 Internal and Operational Auditing 3
- TAX 6445 Estate Planning 3

Other business courses: Three elective courses (9 hrs.) outside the field of Accountancy with advanced written approval by the M. Acc. Advisor.

Course Descriptions

**ACG 5201 ADVANCED FINANCIAL ACCOUNTING** (3) Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships. (PR: ACG 4123)

**ACG 5675 INTERNAL AND OPERATIONAL AUDITING** (3) The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of Internal and Operational Auditing and to apply relevant audit principles and techniques to selected audit problems. (PR: ACG 3113, 3401)

**ACG 5935 SELECTED TOPICS IN ACCOUNTING** (1-4) To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. Rpt. to 6 hours. (PR: CI)

**ACG 6025 FINANCIAL ACCOUNTING FOR MANAGERS** (2) Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users and (2) structure and interpretation of financial statements, especially issues of income determination and asset measurement. Not available for credit for graduate students in the Master of Accountancy program.

**ACG 6075 MANAGEMENT ACCOUNTING AND CONTROL** (2) Deals with management accounting systems for different types of entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control. Not available for credit for graduate students in the Master of Accountancy program. (PR: ACG 6025)

**ACG 6346 COST ACCOUNTING THEORY** (3) Deals with the evolution of cost accounting systems and their subsequent loss of relevance, and the impact of new management accounting philosophies (giving consideration to the influences of the international community) in the modern manufacturing environment. (PR: ACG 3341 or equivalent)

**ACG 6405 ACCOUNTING SYSTEMS THEORY** (3) Design, operation, and auditing of contemporary accounting systems, including file oriented and data base environments. (PR: ACG 3401 or equiv.)
ACG 6457 ACCOUNTING SYSTEMS AUDIT, CONTROL, AND SECURITY (3) An in-depth study of contemporary systems control security from an audit perspective. Course topics will include: IS audit standards, contemporary AIS technologies, and the development and maintenance of AIS integrity. (PR: ACG 3401, ACG 6405 or equivalent)

ACG 6476 CONTEMPORARY ISSUES IN ACCOUNTING INFORMATION SYSTEMS (3) An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field. (PR: ACG 6405 or equivalent).

ACG 6636 CONTEMPORARY ISSUES IN AUDITING (3) This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession. (PR: ACG 4632)

ACG 6875 DEVELOPMENT OF ACCOUNTING THOUGHT (3) A study and evaluation of the development and evolution of current accounting theory and measurement concepts. An examination of financial accounting objectives, measurement models, and controversial issues. (PR: 20 hours of accounting or CI)

ACG 6905 INDEPENDENT STUDY (1-19 Var.) Independent Study. Student must have a contract with an instructor. Rpt. S/U. (PR: CC)


ACG 6932 INTEGRATIVE ACCOUNTING SEMINAR (3) Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses. (PR: Enrolled in final semester of program)

ACG 6936 SELECTED TOPICS IN ACCOUNTING (1-4) The course content will depend on student demand and instructor's interest. Rpt. up to 6 hours. (PR: CC)

ACG 7156 SEMINAR IN FINANCIAL ACCOUNTING (3) This course investigates advanced research and methodological issues in financial accounting. It focuses primarily on research which uses financial information in contexts external to the firm. (PR: ACG 6875 or CI)

ACG 7356 SEMINAR IN MANAGEMENT ACCOUNTING (3) Review and critical analysis of management accounting foundation with emphasis on the current research methods in organizational behavior aspects and multiple criteria decision methods. (PR: ACG 6346 or CI)

ACG 7415 SEMINAR IN ACCOUNTING INFORMATION SYSTEMS (3) Review and critical analysis of major topics and research methods in accounting information systems. (PR: ACG 6405 or CI)

ACG 7646 SEMINAR IN AUDITING (3) This course involves a study of state-of-the-art research techniques as applied to major auditing issues and a critical analysis of the reported research findings. (PR: ACG 6636 or equiv. or CI)

ACG 7936 SEMINAR ON SPECIAL TOPICS IN ACCOUNTING (1-4) Coverage of particular topics of interest to doctoral faculty and students during any given semester. (PR: CI)
ACG 7980 DISSERTATION IN ACCOUNTING (1-21) Research and writing of a dissertation on an accounting topic. (PR: Completion of comprehensive exams and CI)

TAX 5015 FEDERAL TAXATION OF BUSINESS ENTITIES (3) Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

TAX 6005 ADVANCED PARTNERSHIP TAXATION (3) A study of advanced income tax problems involving partnerships, including organization, operation, distributions, liquidations, basis, family partnerships and sales and exchanges. The planning and business aspects of partnerships are emphasized. (PR: Tax 4001 and TAX 5015)

TAX 6016 ADVANCED CORPORATE TAXATION I (3) This is the first of two sequential courses on Advanced Corporate Taxation. This course studies advanced income tax problems involving corporations, including organization, operation, distribution, and liquidation. Topics include "S" Corporations, collapsible corporations, personal holding companies, accumulation of earnings, and acquisition and disposition of cooperations. The planning and business aspects of corporate transactions are emphasized (PR: TAX 4001)

TAX 6025 ADVANCED CORPORATE TAXATION II (3) This is the second of two sequential courses on Advanced Corporate Taxation. This course covers advanced corporation topics including multiple corporations, transfer of corporate attributes, corporate divisions, corporate reorganizations, consolidated corporate tax returns, limitation on corporate loss carry-forwards and taxation of foreign corporations and foreign source income (PR: TAX 6016)

TAX 6065 TAX RESEARCH, PLANNING, AND PROCEDURE (3) A study of the development of tax law and its implications in business decisions. Tax research, tax planning, and tax procedure are emphasized, along with relevant computer research applications. (PR: TAX 4001 and TAX 5015)

TAX 6134 ADVANCED CORPORATE TAXATION (3) A study of advanced income tax problems involving corporations, including organization, operation, distributions, liquidations, consolidated corporate tax returns, and taxation of foreign corporations and foreign source income. (PR: TAX 4001 and TAX 5015)

TAX 6445 ESTATE PLANNING (3) This course covers the basics of estate, gift, and trust taxation and introduces the student to tax planning techniques to minimize the tax-burden on inter-generation transfers of wealth. (PR: TAX 4001 and TAX 5015)

TAX 7067 SEMINAR IN TAXATION (3) An introduction to current trends in academic tax research and the various methodologies being used in such research. (PR: TAX 6025 or CI)
Economics (ECO)

4202 E. Fowler Avenue, BSN 3403
Tampa, Fl 33620
(813) 974-4252
e-mail address: jdesalvo@coba.usf.edu
WebAddress: http://www.coba.usf.edu/programs.economics

Chairperson: Joseph J. DeSalvo
Program Director: Bradley P. Kamp
Ph.D. Program Director: Philip K. Porter

Faculty: Sue A. Bartlett, Donald M. Bellante, Sunne Brandmeyer, Maria de los Angeles,
Thomas D. Curtis, Joseph S. DeSalvo, Edward J. Ford, Jr., Carole A. Green-Weishaupt,
Kwabena Gyimah-Brempong, Eila Hanni, Mark G. Herander, John S. Hodgson, Bradley
P. Kamp, Michael B. Lowey, Gabriel A. Picone, Phillip K. Porter, Jeffery S. Racine, John
W. Rowe, Jr., Luz A. Saavedra, James G. Spence, John R. Swinton, Christopher R.
Thomas, Mark R. Wilson

Degrees Offered: M.A., Ph.D.
Two application areas in the M.B.A. Program

M.A. in Economics

The M.A. in economics prepares students for careers as professional economists in business
and government. It is also excellent preparation for continued graduate study in economics.

Additional Admission Requirements
An undergraduate major in economics is not required. Students with strong background
in intermediate economic theory and basic mathematics and statistics can normally
complete the program in one and one-half years. Students without such background
may need to complete prerequisite courses in addition to the required 30 hours.

Program Requirements
All students are required to take courses in advanced economic theory, policy analysis, and
econometrics. Students preparing for professional careers choose additional applied courses in
the fields listed above. Students preparing for doctoral studies select from these and additional
courses in economic theory, mathematics, and quantitative methods. Where appropriate students
may select courses in other departments in the University.

Students must satisfy all University requirements for the M.A. degree. Departmental
requirements include 30 hours of graduate credit selected with the approval of the department's
graduate advisor. At least 24 hours must be in Economics not including Independent Study
(ECO 6906) and Directed Research (ECO 6917).

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECO 6936</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 6115</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 6206</td>
<td>Aggregate Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 6424</td>
<td>Econometrics I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 6425</td>
<td>Econometrics II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 6936</td>
<td>Economics Policy Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
Course Descriptions:

ECO 6114 MANAGERIAL ECONOMICS (2) Theory of economic behavior of households and firms, consumer behavior, demand analysis, production and cost, factor markets.

ECO 6115 MICROECONOMICS (3) Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium. (PR: ECO 3101 or ECO 6114, ECO 4401 or CC)

ECO 6204 GLOBAL ECONOMIC ENVIRONMENT OF BUSINESS (2) Determination of prices, employment, and output in domestic and international settings.

ECO 6205 MACROECONOMIC THEORY AND POLICY (3) Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth. (PR: For Master of Accountancy students only)

ECO 6206 AGGREGATE ECONOMICS (3) Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates. (PR: ECO 3203 or ECO 6204)

ECO 6305 HISTORY OF ECONOMIC THOUGHT (3) Currents of modern economic thought in the last hundred years. (PR: ECO 3101 or ECO 6114 or CI)

ECO 6424 ECONOMETRICS I (3) Theory and use of multiple regression to estimate relations in causal models, use of standard software packages. (PR: ECO 3203 or ECO 6204, QMB 3200, QMB 6305, or CI)

ECO 6425 ECONOMETRICS II (3) Advanced econometric techniques; model building, estimation and forecasting; design and execution of research projects. (PR: ECO 6424)

ECO 6505 PUBLIC FINANCE (3) Effects of tax and expenditure policies on resource allocation and income distribution. (PR: ECO 3101 or ECO 6114)

ECO 6525 PUBLIC SECTOR ECONOMICS (3) Introduction to the price system and the allocation of resources, emphasis on market failure and the economic role of government. (No credit for Economics or Business Administration students.)

ECO 6706 INTERNATIONAL TRADE: THEORY AND POLICY (3) Causes of international trade, international trade policy, economic integration, trade problems of developing countries, role of multinational corporations in world trade. (PR: ECO 3101 or ECO 6114)

ECO 6716 INTERNATIONAL MONETARY ECONOMICS (3) International macroeconomic relationships, foreign exchange market, the international monetary system, balance of payments adjustments, macroeconomic policy in the open economy. (PR: ECO 3203 or ECO 6204)

ECO 6906 INDEPENDENT STUDY (1-19 Var.) Independent study. Student must have a contract with an instructor. Rpt. to a maximum of 6 hours. S/U. (PR: CC)
ECO 6917 DIRECTED RESEARCH (1-19 Var.) Rpt. to a maximum of 6 hours. S/U. (PR: GR, ML, CC)

ECO 6936 SELECTED TOPICS IN ECONOMICS (1-4) The course content will depend on student demand and instructor's interest. (PR: GS and CI)


ECO 7116 MICROECONOMICS II (3) Topics in advanced microeconomic theory, including general equilibrium, welfare economics, intertemporal choice, uncertainty, information, and game theory. (PR: ECO 6115)

ECP 6205 LABOR ECONOMICS (3) Labor demand and supply, unemployment, discrimination in labor markets, labor force statistics. (PR: ECO 3101, ECO 6114, or ECO 6115)

ECP 6305 ENVIRONMENTAL ECONOMICS AND POLICY (3) An economic analysis of business's and the government's approach to managing environmental issues. The focus of the course is on the analysis of case studies of specific environmental issues using fundamental efficiency analysis. (PR: ECO 2023 or ECO 6114)

ECP 6406 ECONOMICS OF ORGANIZATION (3) Theory of evolution of firms and other hierarchies as alternatives to markets. Topics include the market mechanism as a coordinating system, agency theory, risk-shaping and incentive mechanisms, ownership versus control of organizations, and organizational form. Intended for Ph.D. in Business and M.A. in Economics students.

ECP 6415 ISSUES IN REGULATION AND ANTITRUST (3) Issues concerning rationale, structure and performance of government regulation and antitrust policy. (PR: ECO 3101 or ECO 3100 or GEB 6114)

ECP 6456 LAW AND ECONOMICS (3) Impact of Tort, Criminal, Property, and Contract Law on the allocation of resources. (PR: ECO 3101 or ECO 6114)


ECP 6614 URBAN ECONOMICS (3) Economics of growth and development of urban areas, intraurban location patterns. (PR: ECO 3101 or ECO 6114)

ECP 6705 INTERNATIONAL ECONOMIC ISSUES (3) Analysis of international economic relationship and institutions. Analysis of the effects of changing economic conditions and policy on the climate for international business and investment. (PR: ECO 6114 and ECO 6204; Not for Master of Economics students)
Finance (FIN)

4202 E. Fowler Avenue, BSN 3403
Tampa, Fl 33620
(813) 974-2081
e-mail address: sbeasley@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/finance

Chairperson: Scott Beasley
Ph.D. Program Director: James L. Pappas


*Lykes Professor of Banking and Finance

Degrees Offered: Three application areas in the M.B.A. program, Ph.D. (refer to descriptions in College listing)

The Finance Department offers concentration area with high quality preparation for careers in industry and as research and staff personnel in the governmental sector. The doctoral program provides for intellectual growth as students work closely with faculty in seminars, research projects, and other assignments which develop their teaching and research skills.

Additional Admission Requirements
See College of Business admission requirements

Program Requirements
See College of Business Ph.D. program requirements

Course Descriptions

FIN 6246 ADVANCED MONEY AND CAPITAL MARKETS (3) The study of the role of financial markets, instruments, and institutions in the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets. (PR: ECO 6204)

FIN 6326 BANK MANAGEMENT (3) Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment. (PR: FIN 6406)

FIN 6406 FINANCIAL MANAGEMENT (3) The study of processes, decision structures, and institutional arrangements concerned with the acquisition and utilization of funds by a firm. The course includes the management of the asset and liability structures of the firm under both certainty and uncertainty. (PR: ACG 6025 and ECO 6114)
FIN 6418 WORKING CAPITAL MANAGEMENT (3) This course is designed to provide the student with an understanding of short-term financial management which includes decision making concerning sources and uses of cash flows to support short-term operations. (PR: FIN 6406 or equivalent)

FIN 6445 FINANCIAL POLICY (3) A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions. (PR: FIN 6406 or CI)

FIN 6605 INTERNATIONAL FINANCIAL MANAGEMENT (3) The course provides a foundation for the understanding of financial management of international business. The subjects covered relate to: international finance, multinational business finance, and financial market theory. (PR: FIN 6406 or equiv., CC)

FIN 6804 THEORY OF FINANCE (3) A systematic and rigorous course in the theory of finance. Topics covered include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions, and the theory of risk and uncertainty in financial decisions. The course also covers the theoretical concepts underlying financing decisions and the cost of capital. (PR: FIN 6406 or CI)

FIN 6816 INVESTMENTS (3) An examination of the risks and returns of alternative investment instruments within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions. (PR: FIN 6406, CC)

FIN 6906 INDEPENDENT STUDY (Var.) Students must have a contract with an instructor. Rpt. S/U. (PR: CC)

FIN 6915 DIRECTED RESEARCH (Var.) Students must have a contract with an instructor. Rpt. S/U. (PR: GR, ML, CC)

FIN 6934 SELECTED TOPICS IN FINANCE (1-4) Var. depending upon the scope and magnitude of the work required. Includes special lecture series. (PR: GS and CI)

FIN 7808 ADVANCED MICRO FINANCE (3) The study of advanced theoretical and empirical works in finance primarily relating to financial decisions at the level of the firm. (PR: FIN 6406, FIN 6804, ECO 6424 or Departmental approval)

FIN 7817 FINANCIAL MARKETS (3) The study of advanced theoretical and empirical works in finance primarily relating to financial institutions and markets. (PR: FIN 6246, FIN 6816, ECO 6424 or Departmental approval)

FIN 7930 SELECTED TOPICS IN FINANCE (3) A study of selected topics of current issues on the frontiers of financial thought. Rpt. (PR: FIN 7808, QMB 7566, or Departmental approval)

FIN 7935 FINANCE RESEARCH SEMINAR (3) Theoretical and/or empirical research on finance related problems. This course will require a research paper to be written and presented. It is designed to aid the student in developing a thesis and the research methodology necessary for the doctoral dissertation. Rpt. (PR: One semester of FIN 7930)

FIN 7980 DISSERTATION (Var.) Rpt. (PR: Admission to Candidacy)
Information Systems and Decision Sciences (ISDS)

4202 E. Fowler Avenue, CIS 1040
Tampa, Fl 33620
(813) 974-5524
e-mail address: sbirkin@coba.usf.edu
WebAddress: http://www.coba.usf.edu/departments/isds/programs/index.html

Chairperson: Stanley J. Birkin
M.S. Program Director: Alan R. Hevner
Ph.D. Program Director: Terry Sincich


Degrees Offered: M.S., Ph.D. (Refer to Descriptions in College Listing)
Specializations: Two application areas in the M.B.A. Program (refer to College section)

M.S. in Management: Information Systems

The Master of Science in Management Information Systems (MS/MIS) meets the needs of the marketplace for expertise in both information technology and management. Highly qualified individuals with motivation for leadership in information systems fields are encouraged to apply for admission to this program.

We expect that graduates of the program will be in great demand by firms in the information services sector of the economy, software houses, management consultants, and MIS departments in industry. An Industrial Advisory Board consisting of senior information systems executives and consultants works closely with the department to ensure that the program maintains high standards.

The MIS program is designed for individuals who are challenged by applications other than science or technology and who are willing to undertake a career that demands a broad rather than narrow range of skills. Students who already have considerable background either in academic computer science or in business coursework will make use of the built-in flexibility of the program, designing courses of study that will provide them with the best background for their careers. A faculty advisor will work closely with each student to design and monitor the most effective course sequence and thesis/practicum work.

Additional Admission Requirements
1. Students must score higher than 1050 on the GRE or 500 on the GMAT.
2. Work experience in the information systems field is highly desired.

Program Requirements
The program requires 30-32 hours of coursework and may be taken either full-time or part-time. Full-time students with appropriate prerequisites may be able to complete the program in one full year (3 semesters) of study. Part-time students and full-time students who need prerequisites will typically need from 1 1/2 to 3 years to complete the degree.
During the first year of the program, a student will complete a formal Program of Study that will define a coherent sequence of courses to satisfy the student's objectives. A student may have the option to complete a master's thesis or a Practicum project, depending upon the availability and approval of a faculty sponsor. All students must successfully pass a comprehensive final examination (given in capstone course ISM 6155) for degree completion.

**Prerequisites:** Incoming students are expected to have a technical background with some exposure to programming and systems concepts. Students who do not have this experience will be asked to remedy their deficiencies by self-study or taking courses in areas of deficiency. Students must have the following prerequisites:

1. One semester of calculus or equivalent mathematical background
2. Two semesters of a high-level programming language (e.g., C, Pascal, Ada, COBOL, FORTRAN) or substantial programming experience.
3. Business Fundamentals: Students must have a basic background in business fundamentals. This prerequisite may be satisfied with undergraduate or previous graduate courses in accounting, economics, and statistics. Criteria for satisfying fundamental knowledge in each area will be determined by the program faculty.

Required prerequisite courses in the above areas may be taken concurrently with the core and elective courses in the MS/MIS program. Courses taken to fulfill prerequisite requirements do not count toward the degree requirements.

**Management Core**

The management core consists of three courses from the Management department. These courses allow students to grow their managerial capabilities for careers in the Information Systems field. Students will take the introductory course, MAN 6055 - Human Behavior in Organizations, plus two additional courses from the list below.

- MAN 6289 Organizational Change and Development
- MAN 6930 Leadership and Teams
- MAN 6305 Human Resource Management
- MAN 6107 Management Behavior Skills
- MAN 6053 Politics and Control in Organizations
- MAN 6294 Management of Conflict Resolution
- MAN 6607 Managing International Cultural Differences
- MAN 6117 Managing Diversity

Other graduate management-oriented courses from areas such as public health or social sciences may be included as electives with the approval of the student's advisor.

**Electives** (12 credits)

Four elective courses may be selected from additional Information Systems courses or other areas of specialization (e.g., Management, Decision Sciences, Computer Science, Logistics, other courses if approved).

**Thesis** (6 hrs. min.): The master's thesis option requires six credits of ISM 6971, which count as six of the 12 elective credits. The thesis must make a well-defined contribution to the research and development in an area of Information Systems.

**Practicum**

The practicum requires an investigation of a new information technology or application technique. The project typically occurs in the student's place of employment and is jointly supervised by a faculty member and a manager in the company. Based upon the magnitude of the project, either three or six hours of credit in ISM 6905 would be taken. The practicum would count for three or six hours of electives.
Course Descriptions

ISM 6021 MANAGEMENT INFORMATION SYSTEMS (2) An introduction to the fundamentals of information systems including an examination of information technology terminology and concepts, alternative methodologies for developing information systems, and the application and impact of information technology in contemporary organizations.

ISM 6123 SYSTEMS ANALYSIS AND DESIGN (3) This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems. (PR: ISM 6021 or equiv.; COBOL I or other approved language, CC)

ISM 6124 ADVANCED SYSTEMS ANALYSIS AND DESIGN (3) This course covers advanced topics of information systems development. Students learn to manage and perform activities throughout the information systems development life cycle. State-of-the-art system development processes, methods, and tools are presented.

ISM 6125 SOFTWARE ARCHITECTURE (3) Software architecture has emerged as an explicit field of study for software engineering practitioners and researchers. In this course, we will investigate the growing literature on software architecture and understand the application of software concepts to the development of information systems. (PR: ISM 6124)

ISM 6127 DECISION SUPPORT SYSTEMS ANALYSIS AND DESIGN (3) Analysis and design of systems that integrate computer models, data bases, and the decision maker into an effective decision system. Emphasis is on decision maker's needs and human/machine compatibility. (PR: ISM 6123, QMB 6305, QMB 6603, CC)

ISM 6155 ENTERPRISE INFORMATION SYSTEMS MANAGEMENT (3) Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, CASE methodology and project management techniques. Students will work in groups on semester projects. (PR: ISM 6124, ISM 6218)

ISM 6217 DATABASE ADMINISTRATION (3) Advanced principles of Database Administration. Database Organization Models. Disaster Planning for Database Files. (PR: ISM 6123 or equiv., CC)


ISM 6225 DISTRIBUTED INFORMATION SYSTEMS (3) Analysis, design, implementation, and management of distributed information systems and networks. (PR: ISM 6123, CC)

ISM 6305 MANAGING THE INFORMATION SYSTEM FUNCTION (3) An advanced study of information system management including system planning, project selection and management, and organizational information management policies. (PR: ISM 6021 or equiv., CC)

ISM 6325 INFORMATION SYSTEMS CONTROL (3) An advanced study of information system control and its application in system design and system management. (PR: ISM 6123 or equiv., CC)
ISM 6405 DECISION SUPPORT SYSTEMS APPLICATIONS-COMPUTER ASSISTED DECISION MAKING (3) Study of the principles of decision making and the human computer alliance with hands-on computer-assisted decision making for an organizational environment. Case studies and/or management games using micro-computers. (PR: FIN 6406, QMB 6305, QMB 6603, CC)

ISM 6456 MICROCOMPUTERS IN MANAGEMENT (3) Analysis, design, implementation, and management of small business systems/microcomputer systems. (PR: ISM 6021, CC)

ISM 6905 INDEPENDENT STUDY (1-6) Independent Study as directed by designated faculty. Rpt. S/U. (PR: CC)

ISM 6930 SELECTED TOPICS IN MIS (1-6) Selected topics in MIS. Rpt. (PR: CC)

ISM 6971 THESIS: MASTER'S (1-6) Students may select the thesis option in order to complete the Master of Science in the Management Information Systems (MS/MIS) program. Faculty permission is required to register for MS Thesis credit. Six credits are the maximum number of credits allowed for MS Thesis credit.

ISM 7120 INFORMATION REQUIREMENTS MANAGEMENT (3) Understanding the theoretical foundation for analyzing problem situations and determining information technology requirements; tools and skill requirements of the systems manager; and methods of managing computer-based information systems. (PR: CC)

ISM 7140 SYSTEMS DEVELOPMENT METHODOLOGIES (3) Realistic in-depth application perspective of the tools and techniques of systems development. (PR: CC)

ISM 7231 FILE ACCESS METHODS AND SYSTEMS SOFTWARE FOR APPLICATION DEVELOPMENT (3) An information system, viewed as a user application process interacting with data in a particular hardware/software environment, is analyzed to provide insights into various file access alternatives and advantages. (PR: Departmental Approval)

ISM 7422 BUSINESS APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS (3) Theory, concepts, methodologies, current trends, potential, interrelationships of artificial intelligence, expert systems, and decision process. (PR: Departmental Approval)

ISM 7441C COMPUTER-BASED APPLICATIONS IN OPERATIONS MANAGEMENT (3) Introduction to applications of computer technology in manufacturing and operations management. Focus on the design and implementation of applications to support the operations manager. (PR: Departmental Approval)

ISM 7905 INDEPENDENT STUDY (1-6 Var.) Independent study in which student must have a contract with an instructor. Rpt. to 6 hours. S/U. (PR: CC)

ISM 7910 MIS RESEARCH SEMINAR I (3) Introduction to the MIS literature as it has developed over the past 30 years. Primary focus on the research literature. Other important writings will also be covered. Rpt. to 6 hours. (PR: Departmental Approval)
ISM 7911 SEMINAR ON TECHNICAL IS RESEARCH (3) An examination of recently published empirical research in MIS and related disciplines, focusing on the development of a sound theoretical foundation for hypotheses, selection of appropriate design and statistical techniques, and evaluation of the results. (PR: ISM 7910)

ISM 7912 SEMINAR ON BEHAVIORAL IS RESEARCH (3) This course is team taught by IS/DS faculty with research interests in behavioral and organizational fields. The seminar structure of the course allows flexibility of current research topics and opportunities for significant student faculty faculty interaction. Students will achieve a broad understanding of the research areas adn methods associated with behavioral and organizational IS research. (PR: ISM 7910)

ISM 7931 DIRECTED RESEARCH (1-6 Var.) Rpt. up to 6 hours. S/U. (PR: Ph.D. level, CC)

ISM 7980 DISSERTATION (1-21 Var.) Rpt. to 21 hours. (PR: CC)

MAN 6557 SIMULATION OF ADMINISTRATIVE SYSTEMS (3) A study of manual and computer simulation techniques and their application to administrative problem solving. The course emphasizes model design and construction, data collection and analysis, model validation, and implementation problems. (PR: QMB 6305 and QMB 6603)

MAN 6569 QUANTITATIVE APPLICATIONS FOR MANAGEMENT DECISIONS (3) The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services. (PR: QMB 6305 and QMB 6603)

QMB 6305 MANAGERIAL DECISION ANALYSIS (2) A study of the general concepts of interval estimation, hypothesis testing, correlation and multiple regression with an emphasis on applications, concepts and interpretation of results.

QMB 6365 APPLIED BUSINESS FORECASTING (3) Logic and application of quantitative forecasting techniques to problems in business. (PR: QMB 6305 or equiv., CC)

QMB 6375 APPLIED LINEAR STATISTICAL MODELS (3) A study of multivariate data analysis techniques and their applications to problems and systems in business. (PR: QMB 6305 or equiv., CC)

QMB 6603 OPERATIONS MANAGEMENT AND QUALITY ENHANCEMENT (2) Principles of managing manufacturing and service organizations. Topics include: competitive use of operations, comprehensive manufacturing strategies, production system design, material requirements planning, JIT systems, quality management, statistical process control, and project management. (PR: GS, College Algebra)

QMB 6607 MANAGERIAL STATISTICS (3) Techniques for statistical decisions under incomplete information. Prior probabilities, likelihoods and revised probabilities. Loss functions, Bayesian decision rules. Sequential decision strategies. Optimal decision revision. (PR: QMB 6305, CC)
QMB 7565 INTRODUCTION TO RESEARCH METHODS (3) A course in research strategies, design, analysis, and measurement for business research. (PR: CC)

QMB 7566 APPLIED MULTIVARIATE STATISTICAL METHODS (3) A course in research analysis and measurement focusing on multivariate statistical analysis techniques. (PR: CC)
Management (MAN)

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Tampa, Fl 33620
(813) 974-4155
e-mail address: abalfour@coba.usf.edu
WebAddress: http://www.bsn.usf.edu/departments/management

Chairperson: Alan Balfour
M.S. Program Director: Alan Balfour
Ph.D. Program Director: Walter Nord


*Professor Emeritus
**Phased Retirement

Degrees Offered: M.S., Ph.D. (See Ph.D. description in College section)
Specializations: Application areas in the M.B.A. program; see College of Business M.B.A. program description

M.S. in Management: Leadership and Organizational Effectiveness (MSM)

For further details, please consult our website at www.coba.usf.edu. This program develops the skill to lead 21st century organizations. It is targeted for experienced, successful working managers - people who are already good at their jobs and who can be promoted to higher leadership and executive positions within or outside their present organizations. It is not intended for recent graduates seeking entry level managerial positions.

The future requires a very different type of leader than the past. The hierarchical model of scientific management is no longer widely accepted. The leaders of the future must be able to empower others and to facilitate teamwork in diverse groups, to recognize and adapt to the constraints and opportunities of a global economy, and to accommodate the ethical and societal needs of the environment within which the organization functions.

Both the profit and not-for-profit communities have recognized these changes and have demanded that business schools provide a modified and improved manager for the future - a manager who succeeds by facilitating the performance of others. This manager must be successful in leadership and organizational effectiveness.

The MSM program is founded on two underlying beliefs: 1) that organizations are more than mere collections of individuals; that they are communities of shared concern; and 2) there is a moral imperative to help others when you can. These values lead to organizational behavior that is both effective and ethical. Intrapersonal, interpersonal, and organizational competencies are enhanced. The MSM faculty members blend scholarly activity and applied skills. All have earned doctorates; many have successful consulting practices. It is the goal of the faculty to prepare graduates for successful careers as leaders in the real world.
This is an extremely progressive, dynamic, well-focused program. It is designed to help you reach career goals. The MSM is a 32 credit hour program offered in two formats: cohort and self-paced. The cohort program is designed around the needs of working managers. Classes meet Tuesday and Thursday evenings for twenty-one months. All cohort program students begin in August. A skills course in Decision Making and Problem Solving must be completed in the two weekends before fall semester enrollment. The curriculum proceeds from basic tools of analysis and skills development through understanding of interpersonal and organizational dynamics, to planned change and implementation. Sections are limited to thirty students. Course offerings and section availability are guaranteed to cohort members.

Occasionally, some students desire to proceed either faster or slower than the cohort program. Under exceptional circumstances they may pursue the self-paced format. This is done by enrolling in sections of MSM-required classes that are offered in the MBA program. The vast majority of these are offered at night. Scheduling and space cannot be guaranteed.

In either format, interactive teaching methods are emphasized. A master's thesis is optional; a comprehensive exam is incorporated into the concluding capstone course. An undergraduate degree in business administration is not required.

Additional Admission Requirements
Admission to the cohort program is competitive based on thirty spaces available each year. Applicants for either structure must provide three items: a transcript of undergraduate courses; a test score on either the GMAT or GRE standardized tests, and a one-page statement of how the degree could reasonably help the applicant attain career goals. Letters of recommendation are not required or utilized in this program.

To receive unconditional admission, a student must
Have a GPA of 3.0 or higher for upper division undergraduate course work, AND
Score 500 or higher on the GMAT or 1050 or higher on the combined verbal and quantitative scores on the GRE. Students should take the GMAT if it is easily available.
Display leadership success based on past experience and future potential as demonstrated in the personal statement.

Students who achieve only one academic criterion may be admitted conditionally. Those students must achieve a grade of B or better in their first four courses. Students falling below both academic criteria may rarely be admitted on an exceptional basis. Because one of the target audiences for this degree is successful managers who have been out of college for several years, it is sometimes possible to offset relatively low test scores with evidence of potential success based on experience and opportunity.

Program Requirements
Students in either format take the same eleven required courses. Self-structured format students may schedule their courses as circumstances permit. The cohort format is structured as follows:

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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
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<td>Fall Pre-session:</td>
<td>MAN 6930</td>
<td>Decision Making and Problem Solving: Processes and Responsibilities</td>
</tr>
<tr>
<td>Fall Semester:</td>
<td>MAN 6930</td>
<td>Measuring Organizational Effectiveness</td>
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<td></td>
<td>MAR 6935</td>
<td>Developing Personal Leadership Qualities</td>
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<td>Spring Semester:</td>
<td>MAN 6135</td>
<td>Communicating in Contemporary Systems:</td>
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Business 231

Electronic Empowerment. Negotiating Agreement and Resolving Conflict

MAN 6297 Synergizing Cultural Differences: Domestic and International Organizational Design and Structure

Summer Term: MAN 6607 Human Resources Management/Employment Laws

Fall Semester: MAN 6305 Leadership Practice

MAN 6122 Organizational Development and Change

MAN 6289 Managing Organizational Change and Development

Spring Semester: MAN 6289 Managing the Future: Forecasting, Planning, and Leading

MAN 6930

Additional Information Regarding Curriculum
Leadership, teamwork, communication skills and organizational change are emphasized. Much of the curriculum is delivered through case studies, class discussion, exercises, group projects, video taped role playing, simulations, and prominent guest speakers from the local business and non-profit community. Emphasis is placed on student participation and teamwork, not on passive absorption of knowledge. All courses include writing, presentation, and critical thinking skills.

Course Descriptions

*Course titles and descriptions are constantly being revised, updated and improved. For the most current version of the program, please consult our website at www.coba.usf.edu.

MAN 6053 POLITICS AND CONTROL IN ORGANIZATIONS (3) Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact. (PR: GS)

MAN 6055 HUMAN BEHAVIOR AND ORGANIZATION (2) An examination of the theory and practice of management, including the study of goals and means, the functions of management, and the administrative process in general. (PR: GS)

MAN 6107 MANAGERIAL BEHAVIOR (3) A laboratory approach to the understanding of patterns of interpersonal and inter-group behavior that are significant for the managerial role. Topics include perception, expectation, motivation, leadership styles, decision making, conflict, and competition. (PR: GS)

MAN 6116 MANAGING DIVERSITY (3) Course deals with questions, dimensions of style and structure, problems and paradigms of solutions that have come out of management experience of a changing workforce during the past twenty years. Emerging styles of leadership among people of diverse cultural backgrounds will be explored as solutions, not as problems. (PR: GS)

MAN 6135 MANAGEMENT OF COMMUNICATION (3) Communication as management is the focus of this course. Examined are the process, nature, and variables that comprise organizational communications. (PR: GS)
MAN 6149 LEADERSHIP AND TEAMS (3) Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment. (PR: GS)

MAN 6204 ORGANIZATIONAL DESIGN AND STRUCTURE (3) Systematic study of architecture, design, and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.

MAN 6266 MANAGEMENT OF PROFESSIONALS (3) Organizational behavior of professional employees is investigated through available theories and concepts. Concentration is placed on the manager’s role, especially that of matching organizational demands with individual talents and expectations. S/U (PR: GS)

MAN 6289 ORGANIZATIONAL CHANGE AND DEVELOPMENT (3) A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a “real” organization. (PR: GS)

MAN 6297 NEGOTIATING AGREEMENT AND RESOLVING CONFLICT (3) Examines negotiating techniques and dispute resolution designs including mediation, arbitration, peer review, and other alternatives to litigation in both domestic and international settings.

MAN 6305 HUMAN RESOURCE MANAGEMENT (3) Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives. (PR: GS)

MAN 6411 LABOR – MANAGEMENT RELATIONS (3) An examination of the historical, legal, and behavioral aspects of organizational conflict as well as methods of conflict resolution. Particular emphasis on collective bargaining and management of labor relations. (PR: GS)

MAN 6525 QUALITY MANAGEMENT (3) This course provides the student with an understanding of the fundamentals of quality management. Students will develop an appreciation for the complexities of modern organizations in the pursuit of quality. A cross-function multi-disciplinary approach is used. (PR: GS)

MAN 6527 ADVANCED SEMINAR IN QUALITY MANAGEMENT (3) This course explores the new paradigm shift occurring in business. Focusing on quality enhancement initiatives, the course explores the execution of quality management programs and their associated complexities. (PR: MAN 6525)

MAN 6601 INTERNATIONAL MANAGEMENT (3) A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies. (PR: GS)

MAN 6607 MANAGING INTERNATIONAL CULTURAL DIFFERENCES (3) Examines the effects of culture and nationality on business practices in selected regions and countries and suggests ways to build synergistic solutions from multicultural differences. (PR: GS)
MAN 6806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING (1-3) Small business management consulting to an on-going firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.

MAN 6905 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CC)


MAN 6930 SELECTED TOPICS (1-4) Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course or with regularly scheduled graduate courses for more in-depth study. (PR: CC)


MAN 7205 ORGANIZATION THEORY (3) Interdisciplinary overview of theory and research on macro organizational variables affecting organizational design and effectiveness. Focus on relationships between organizational structure and dynamics of human behavior. (PR: MAN 7225 or CI)

MAN 7245 ORGANIZATIONAL BEHAVIOR (3) Behavioral concepts and practices in organizations. Emphasis on individual groups, intragroup and intergroup development and actions; organization; socialization; motivation; values; performance; communication effectiveness. (PR: MAN 7205 or CI)

MAN 7355 MANAGERIAL ASSESSMENT AND DEVELOPMENT (3) Theoretical foundations of measurement of managerial performance and development. Analysis of research on competence, style, ratings, and performance. (PR: MAN 7205 or CI)

MAN 7900 DIRECTED READINGS IN MANAGEMENT (3) Advanced reading program from selected areas in management under supervision of faculty member, requiring written contract describing requirements, prior to registration. Rpt. with changing topics. (PR: MAN 7245 and MAN 7285 or CI)

MAN 7905 INDEPENDENT STUDY IN MANAGEMENT Var. (1-4) Course permits a management doctoral student to conduct research and pursue specific areas of interest with a faculty member as supervisor. Contract required to establish performance levels expected. Rpt. (S/U Only, CC)

MAN 7910 DIRECTED RESEARCH IN MANAGEMENT (3) Advanced directed research program in a specific area of management under supervision of a management faculty member. Rpt. as topics vary. (PR: MAN 7245 and MAN 7285 or CI)

MAN 7930 SELECTED TOPICS IN MANAGEMENT (3) A flexible format to offer specialized courses in management not available in regular curriculum. Rpt. as topics vary. (PR: MAN 7245 and MAN 7285 or CI)

MAN 7980 DISSERTATION (1-21) Rpt. (PR: Successful completion of preliminary exams successful completion of Field Exams in each Major and Secondary field and admission to candidacy for Ph.D. program in Management.)
Marketing (MKT)

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Tampa, Fl 33620
(813) 974-4155
e-mail address: wolocander@coba.usf.edu
WebAddress: http://www.bsn.usf.edu/programs/marketing

Chairperson: William B. Locander
Ph.D. Program Director: James R. Stock


Degrees Offered: Ph.D. (See Ph.D. description in College Section)

Specializations: Four application areas in the M.B.A. program; see College of Business M.B.A. description

The Ph.D. Program in Applied Marketing creates value for students by focusing on managerial applications that are grounded in innovative theory and method. The program prepares graduate for careers as university professors and for research careers in industry and government.

Ph.D. in Applied Marketing

Additional Admission Requirements
None; see College of Business Ph.D. admission requirements.

Program Requirements
See College of Business Ph.D. program requirements.

Course Descriptions

MAR 6158 INTERNATIONAL MARKETING MANAGEMENT (3) A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business and problem-solving within an international context. (PR: MAR 6815, CC)

MAR 6216 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3) A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively. Reading, lecture, and case analysis. (PR: MAR 6815 or CI)
MAR 6336 PROMOTIONAL MANAGEMENT (3) Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing, and evaluating promotional strategy. (PR: MAR 6815, CC)

MAR 6406 SALES MANAGEMENT (3) A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills. (PR: MAR 6815, CC)

MAR 6646 RESEARCH FOR MARKETING MANAGERS (3) A study of marketing research methods and information systems and their relationship to marketing decision-making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, and project. (PR: MAR 6815, QMB 6305, ISM 6021)

MAR 6815 MARKETING MANAGEMENT (2) Analysis of operational and strategic planning problems confronting marketing managers. Topics include buyer behavior, market segmentation, information systems, product selection and development, pricing, distribution, promotion, and sales force management. (PR: ECO 6114, CC)

MAR 6816 MARKETING STRATEGY (3) A study of strategic marketing planning and problem-solving processes as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis. (PR: MAR 6815, CC)

MAR 6907 INDEPENDENT STUDY (1-19 Var.) Must have a contract with an instructor. Rpt. S/U. (PR: CC)


MAR 6936 SELECTED TOPICS IN MARKETING (1-4) The content and organization of this course will vary according to the interests of the faculty and students involved in any given term. Rpt. when subjects differ. (PR: CI)

MAR 7555 CONSUMER BEHAVIOR THEORY (3) This course investigates the interrelationships and applications of behavioral science theories, concepts and methodologies to problems of understanding group as well as individual behavior in the market place. (PR: CC)

MAR 7667 MARKETING MODELS AND STRATEGY APPLICATIONS (3) A model-building approach to the management of marketing. Includes models developed to aid in the design, implementation, and evaluation of corporate marketing strategies; information systems and marketing audits; and the interrelationships of economic, quantitative, and behavioral disciplines that provide the structure and tools necessary to develop and implement marketing decision support systems. (PR: CC)

MAR 7787 MARKETING THEORY AND THOUGHT (3) An intensive study of marketing concepts and theories from 1900 to present. Emphasis is placed on the development of theory, as well as predictions of future theoretical developments. (PR: GS and CI)
The College of Education is a professional school that seeks to contribute to the improvement and reinvention of public schooling through the preparation of teachers, administrators, specialized practitioners, and researchers. The College emphasizes learning that enables students to develop abilities in intellectual inquiry, problem solving, and leadership in order for them to function effectively in their field. The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE). Its initial certification programs are approved by the Florida Department of Education.

The College offers a variety of graduate degree programs, including the Master of Arts (M.A.), the Master of Education (M.Ed.), the Education Specialist (Ed.S.), the Doctor of Education (Ed.D.) and the Doctor of Philosophy (Ph.D.). Many programs are offered under the umbrella of "Curriculum and Instruction." Each of these programs has a specific area of specialization. The full title of each degree and its requirements are discussed in detail in the following pages.

Students seeking initial teacher certification must be admitted to one of the degree programs offered in the College. Individuals seeking additional information should contact the College of Education Graduate Studies Office at 813-974-3406

Degrees Offered:
Master of Arts (M.A.):
- Adult Education
- Business and Office Education
- Counselor Education
- Distributive and Marketing Education
- Early Childhood Education
- Elementary Education
- English Education
- Foreign Language Education:
  - French, German, Spanish
- Industrial/Technical Education
- Junior College Teaching*
- Mathematics Education
- Physical Education
- Reading
- Science Education:
  - Biology, Chemistry, Physics
- Social Science Education
- Special Education:
  - Behavior Disorders, Gifted Education, Mental Retardation
  - Specific Learning Disabilities, Varying Exceptionalities

Master of Education (M.Ed.):
- Educational Leadership
- Curriculum and Instruction with specializations in:
  - College Student Affairs
  - Early Childhood Education
  - English Education
  - Foreign Language
  - Instructional Technology
  - Mathematics Education
  - Measurement and Evaluation
  - Middle School Education
  - Science Education
  - Social Science Education

Education Specialist (Ed.S.):
- Curriculum and Instruction with specializations in:
  - Adult Education
  - Educational Leadership
  - K-12; Community College
  - Elementary Education
  - Higher Education
  - Interdisciplinary Education
  - Mathematics Education
  - Reading/Language Arts Education
  - Science Education
  - School Psychology
  - Special Education
  - Vocational Education

Doctor of Education (Ed.D.):
- Educational Leadership
- K-12 Emphasis
- Community College Education Emphasis
- Educational Program Development with specializations in:
  - Adult Education
  - Educational Leadership
  - Elementary Education
  - Special Education
  - Administration and Supervision
  - Vocational Education

Doctor of Philosophy (Ph.D.):
- Curriculum and Instruction with specializations:
  - Adult Education
  - Early Childhood Education
  - Elementary Education
  - English Education
  - Higher Education
  - Instructional Technology
  - Interdisciplinary Education
  - Mathematics Education
  - Measurement and Evaluation
  - Music Education
  - Reading/Language Arts Education
  - School Psychology
  - Science Education
  - Secondary Education
  - Special Education
  - Vocational Education

The M.A. in Art Education and the M.A. and Ph.D. in Music Education are also offered in collaboration with the College of Fine Arts (see Fine Arts section).

Master’s Degree Programs
The master’s programs offered in the College of Education lead to a Master of Arts (M.A.) or Master of Education (M.Ed.) degree.
The M.A. program is primarily designed to increase competence in a teaching specialization or to provide professional preparation in one of the service areas of education. For most programs, three plans of study are available, depending on the student's background and professional goals.

The M.Ed. program is designed for professional educators who wish to pursue graduate study in educational leadership or curriculum and instruction with a specialization in a given area. Students must have a minimum of two years of relevant educational or professional experience as judged by the program faculty.

Additional Admission Requirements
In addition to the university requirements, students must:
1. Meet the college-specified minimum GRE and GPA requirements.
2. Satisfy any additional academic requirements of the program of specialization.
3. Complete specified undergraduate course(s) they may be required to take if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the department chairperson/school director.
5. Submit proof of certification and/or relevant educational experience (M.Ed. only).

Planned Program of Studies
During the first term after admission to the program, all students must file a planned program of studies, which is to be completed in consultation with an advisor. Three copies of the completed program should be filed with the Coordinator of Graduate Studies in the College of Education.

Comprehensive Examinations
During the last term of enrollment, students must perform satisfactorily on a comprehensive examination or alternative measure (contact department). Students must be enrolled for a minimum of two graduate hours during the semester in which these examinations are taken.

Process Core Examinations
Graduate students with sufficient undergraduate background may take the Process Core Examinations after consultation with their advisors. The Process Core Examinations are available in Foundations of Measurement, Psychological Foundations, and Social Foundations of Education. Successful performance on the examination enables students to waive the course requirement, but they must take elective courses of equal hours. Graduate students who are intending to meet initial certification requirements as part of their planned program are not eligible to take the Process Core Examinations unless they have had a comparable course at the undergraduate level.

Master of Arts (M.A.)
A minimum of 30 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program. There are four plans of study options for students:

**Plan I:** A program of study designed for those with a bachelor's degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas. Plan I is not available in all areas.

**Process Core**

3-12 hours
All Plan I students must take a minimum of one of the following Process Core (Foundations) courses. Additional Process Core requirements are described under Program Descriptions.

EDF 6432  EDF 6211 or EDF 6215  EDF 6481  EDF 6517 or EDF 6544 or EDF 6606

Current Trends Course in Teaching Specialization 3 hours  
Specialization 18 hours minimum  
Thesis (Some programs have a thesis option, contact the dept.)  
Comprehensive Examination

Plan II: Designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the Master of Arts degree. Plan II is not available in all areas.

Process Core
EDF 6432  EDF 6211 or EDF 6215  EDF 6481  EDF 6517 or EDF 6544 or EDF 6606  EDG 4620

Current Trends Course in Teaching Specialization (plus undergraduate prerequisites, as necessary) 3 hours 18 hours minimum  
Specialization
This is an individually planned major in the teaching field or in an appropriate College of Education program for K-12 specialists.

Internship
Planned observation and teaching, supervised by a member of the University faculty and a school staff member. In-service teachers are required to complete this assignment over two semesters. Before entering the internship, students should have completed the process core requirement and two-thirds of the graduate requirements in the area of specialization or an equivalency (using undergraduate hours taken in the field of specialization to complete the two-thirds requirement).

Comprehensive Examination

Plan III: A program for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. The primary difference between Plan III and Plan II is that students will not be required to take EDG 4620 and the internship. Plan III is not available in all areas.

Process Core
EDF 6432  EDF 6211 or EDF 6215  EDF 6481  EDF 6517 or EDF 6544 or EDF 6606

Current Trends Course in Teaching Specialization (plus undergraduate prerequisites, as necessary) 3 hours 18 hours minimum  
Specialization
This is an individually planned major in an educational field.

Comprehensive Examination

Dual Track: (Elementary Education and Special Education Programs only).
This program option is available for students with a baccalaureate degree who are not certified or eligible for certification in elementary education or special education and who wish to meet
teacher certification requirements in these areas while pursuing a state approved master's degree program. Contact departments for further information.

Master of Education (M.Ed.)
Two degree tracks are offered. Students must have a minimum of two years of relevant educational or professional experience as judged by the program faculty.

1. Educational Leadership - This degree is designed to prepare administrators and supervisors in organizational, management, and instructional leadership skills for K-12 schools and community colleges. Successful completion of the K-12 program track leads to Florida certification in Educational Leadership.

2. Curriculum and Instruction with a specialization area - This degree is designed for the professional educator who wishes to pursue advanced study. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the specialization may include courses in colleges other than the College of Education.

The M.Ed. degree requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.

Program of Study
Process Core
  EDF 6432  EDF 6481
  EDF 6211 or EDF 6215 or equivalent
  EDF 6517 or EDF 6544 or EDF 6606 or equivalent
Curriculum and Instruction
  EDG 6627 (a prerequisite course may be required at the undergraduate level)
Specialization
Comprehensive Examination

See individual program descriptions and contact relevant department for specific program requirements.

Advanced Graduate Degree Programs
The advanced graduate degree programs lead to the Education Specialist (Ed.S.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.). Students must meet the college-specified minimum GRE and GPA requirements in order to be considered for admission to any advanced graduate degree program. They must also be favorably recommended by program faculty or an admissions committee and comply with any other college or program requirements for the given degree program. Specific information about these programs is provided by departments.

The Ed.S. and Ph.D. degrees with an emphasis in Interdisciplinary Education are administratively housed in the office of the Associate Dean for Academic Affairs. For information contact the Interdisciplinary Education Program Coordinator, Dr. E.V. Johanningmeier, EDU 380-S, (813) 974-9495.
Education

Education Specialist (Ed.S.)
This degree is offered in Educational Leadership and in Curriculum and Instruction with a specialization area.

Additional Admission Requirements
In addition to University requirements, the student must
1. Meet College-specific minimum GRE and minimum GPA requirements
2. Hold a Master’s degree from an accredited institution of higher education (except for School Psychology applicants).
3. Satisfy any additional academic requirements of the program of specialization.
4. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.
5. Obtain favorable recommendations from the program faculty.

Program Requirements
The Ed.S. degree consists of a minimum of 36 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. It is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
- Specialization coursework
- Thesis (Project)
- Comprehensive Examination (Oral and/or written)
- Oral defense of the project/thesis

Thesis/Project
The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester during which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 credit hours each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or the Graduate School (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee.

Doctor of Education (Ed.D.)
The Doctor of Education degree is available in Educational Leadership and in Educational Program Development with an emphasis in Adult Education, Elementary Education, Special Education Administration and Supervision, or Vocational/Technical Education. The focus of this degree program is on the improvement of educational practice. Although research skills are recognized as being the basis of any doctoral program, the Ed.D. is considered less a research than a practitioner’s degree.

Additional Admission Requirements
Same as Ph.D. and certification in the field in which the student is seeking the Ed.D.
Program Requirements
Program of Study
The Ed.D. requires a minimum of 76 hours beyond the master's degree.

Specialization
- Major Emphasis Area: 24 hours
- Curriculum and Instruction: 6 hours
- Statistics/Measurement/Research Design: 11-12 hours
- Psychological and Social Foundations: 11-12 hours
- Dissertation: 24 hours minimum

Dissertation
Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. The student may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. The student may elect not to register for dissertation hours during the summer semester if in this two-year period she/he is not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, the student must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final deposit of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation within one calendar year or less. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Office of Graduate Studies for readmission.

Residency
The student must enroll for at least nine hours in each of two semesters in a 12-month period. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination
Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook; also consult Program Advisor).

Doctor of Philosophy (Ph.D.)
Additional Admission Requirements
In addition to University requirements, the student must
1. Have a minimum total score of 1000 on the GRE (verbal and quantitative) taken within the last five years, AND
2. Have a 3.0 GPA in work while an upper division student in the baccalaureate degree OR Master's level GPA of 3.5 minimum
3. Hold a Master's degree from a regionally accredited institution of higher education (except for School Psychology applicants).
4. Satisfy any additional academic requirements of the program of specialization.
5. Submit three letters of recommendation from persons knowledgeable about the applicant's academic and professional competence.
6. Obtain favorable recommendations from the program faculty.

Program Requirements
Program of Study
Ph.D. program requires a minimum of 75 credit hours beyond the master's degree.
Specialization
- Major Emphasis Area: 18 hours minimum
- Curriculum & Instruction: 3 hours
- Cognate Area: 12 hours minimum
- Statistics/Measurement/Research Design: 11-12 hours
- Psychological and Social Foundations: 7-8 hours minimum
- Dissertation: 24 hours minimum

Dissertation
Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. The student may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. The student may elect not to register for dissertation hours during the summer semester in this two-year period if she/he is not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, the student must enroll continuously, including summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final deposit of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Office of Graduate Studies for readmission.
Residency
The purpose of the Ph.D. program is to prepare individuals who aspire to become producers of knowledge (researchers/university faculty). This requires that research training and theory exploration be major factors in the education of the candidate. It is during the residency that much of this preparation occurs, although not necessarily in formal course work. To focus on training, each Ph.D. student is required to spend at least two semesters in a 12-month period in full-time residency on the Tampa campus. Full-time residency requires enrollment in a minimum of 9 semester hours each semester. The student should be engaged in no more than half-time work outside the Ph.D. program during this period. Reduction of job responsibilities will allow the student to take advantage of the opportunities for learning that are available in the University community during regular day-time hours, to participate in research projects with faculty and to teach courses at the University level.

The student must declare the semesters of residency as a part of the program of studies. Changes must be approved by the student's doctoral committee and must be submitted in writing to the Coordinator of Graduate Studies at least one semester before the residency is to occur. It will be the responsibility of the Coordinator of Graduate Studies to certify, at the time of application for graduation, that the residency requirement has been met.

Doctoral Qualifying Examination
Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook; also consult Program Advisor).

Student Organizations
The College of Education Graduate Students Association (GSA) serves the needs of graduate students in all education programs. All graduate students in education are automatically members, and there are no dues. The Coordinator is recruited from the ranks of doctoral graduate assistants. The mission of the GSA is to provide linkage among graduate students and programs and to help develop the intellectual community that is so critical to gaining the full value from one's graduate study. For more information about the GSA, contact the College of Education's Office of Graduate Studies 813-974-3406.
Childhood/Language/Arts/Reading Education

4202 E. Fowler Avenue, EDU 162
Tampa, FL 33620
(813) 974-3460
WebAddress: http://www.coedu.usf.edu

Interim Chairperson: Jane Young


Degrees Offered: M.A., M.Ed., Ed.S., Ed.D., Ph.D.

Programs:
- Early Childhood Education (M.A., M.Ed., Ph.D.)
- Reading/Language Arts (M.A., Ed.S., Ph.D.)
- Elementary Education (M.A., Ed.S., Ed.D., Ph.D.)

Early Childhood Education

Program Coordinators (M.A.): Pamela Fleege and Susan Homan
Program Coordinator (M.Ed.): Stephen Graves
Program Coordinator (Ph.D.): Priscilla Griffith

Degrees:
- M.A. in Early Childhood Education
- M.Ed. in Curriculum and Instruction with an Emphasis in Early Childhood
- Ph.D. in Curriculum and Instruction with an Emphasis in Early Childhood

M.A. Early Childhood Education
Includes a program option that leads toward initial teacher certification. Consult the department for additional information.
M.Ed. in Curriculum and Instruction with an Emphasis in Early Childhood Education (CNK)
Consult department for additional information.

Ph.D. in Curriculum and Instruction with an Emphasis in Early Childhood Education (DNK)
This program prepares leaders in the field, such as college and university faculty, directors of programs for school systems, or clinical directors in private or public settings. The program is designed to provide expertise in research into learning processes, designing and evaluating instructional materials and teaching techniques, university and college teaching, and the teaching of learners with disabilities.

Additional Admission Requirements
In addition to University and College requirements, applicants must satisfy the following:
1. Have a minimum GRE score of 1000 (verbal plus quantitative) taken within the last five years.
2. Have at least two years of successful experience in a professional role in an early childhood setting.
3. Hold a master's degree in early childhood education or a related field or expect that additional graduate study may be added to the program to meet prerequisites.
4. Have a GPA of 3.5 or better in post baccalaureate coursework.
5. Submit a statement of professional history and goals to the program coordinator.

Program Requirements
The program requires a minimum of 75 hours beyond the master's degree.

Program of Study
Specialization
  Early Childhood Specialization  18 hours minimum
  Curriculum and Instruction  3 hours
Cognate Area
  Statistics/Measurement/Research Design (incl. Tool requirement)  11-12 hours
  Psychological and Social Foundations  7-8 hours minimum
  Dissertation  24 hours minimum

Dissertation, Residency and Doctoral Qualifying Examination
Refer to section with College Requirements.

Elementary Education

Program Coordinators
M.A. Pamela Fleege
Ed.S., Ed.D., Ph.D. Susan Homan

Degrees:
M.A. in Elementary Education
Ed.S. in Curriculum and Instruction with an emphasis in Elementary Education
Ed.D. in Education Program Development with an emphasis in Elementary Education
Ph.D. in Curriculum and Instruction with an emphasis in Elementary Education
M.A. in Elementary Education (AEE)

Plan I - A program of study designed for those with a bachelor's degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas.

Additional Admission Requirement
In addition to University and College requirements, applicants must be eligible for certification as an elementary or early childhood teacher.

Program Requirements
Three areas of emphasis are offered. Each area requires a minimum of 33 hours.

Process Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDF 6481</td>
<td>EDF 6120 or EDF 6215* or equivalent</td>
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<tr>
<td>(EDF 6215 is required for the Literacy in a Diverse Society Emphasis.)</td>
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Required Program Core (across all areas of emphasis)

<table>
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<tr>
<th>Course Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDG 6935</td>
<td>LAE 6415 or EDG 6931* (Trends in Literature)</td>
</tr>
<tr>
<td>(EDG 6931 is required for the Literacy in a Diverse Society Emphasis.)</td>
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</tbody>
</table>

Emphasis Areas (The student may choose one of the following):

A. Elementary Curriculum Emphasis
   An individually planned program of courses selected with a departmental advisor

B. Language Arts Emphasis
   Current Trends (LAE 6616)
   Specialization
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<td>LAE 6315</td>
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<tr>
<td>RED 6544</td>
<td>RED 6545</td>
</tr>
<tr>
<td>THE 6720</td>
<td>RED 6116 or elective</td>
</tr>
</tbody>
</table>

C. Literacy in a Diverse Society Emphasis
   This program leads to ESOL endorsement.
   Current Trends (LAE 6616)
   Specialization
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 6544</td>
<td>RED 6545</td>
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<tr>
<td>LAE 6301</td>
<td>EEX 6248</td>
</tr>
<tr>
<td>TSL 5525</td>
<td>TSL 5371</td>
</tr>
<tr>
<td>EDG 6931</td>
<td>(Global Perspectives)</td>
</tr>
</tbody>
</table>

Comprehensive Examination

Dual Track and Plan III Programs are also available for non-certified students. (Contact the department for information concerning these programs.)
Ed.S. in Curriculum and Instruction with an Emphasis in Elementary Education (SEE)

Prepares in-school leaders with expertise in instruction and program development in a variety of educational settings. The Ed.S. program is separate from the Ph.D. program and is planned as a terminal degree. Ed.S. coursework is not necessarily applicable to the Ph.D. degree.

Additional Admission Requirements
In addition to University and College requirements, applicants must satisfy the following:

1. Be eligible for certification in Elementary Education.
2. Have two or more years of successful work experience in programs for children.
3. Have a minimum GRE score of 1000 (verbal and quantitative) taken within the last five years.
4. Hold a degree in Elementary Education.
5. Have a GPA of 3.25 or better in post-baccalaureate work.
6. Submit a statement of professional history and goals and three letters of recommendation to the program coordinator.
7. Note: Applicants from foreign countries will be appraised individually.

Program Requirements
The Ed.S. degree consists of a minimum of 36 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. Each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
- Elementary Education Specialization and related courses
- Electives
- Thesis/Project
- Comprehensive Examination
- Oral Defense of Thesis/Project

Ed.D. in Educational Program Development with an Emphasis in Elementary Education (EEE)

Additional Admission Requirements
In addition to University Requirements, applicants must satisfy the following

1. Hold a master’s degree in Elementary Education from an accredited university or college with a GPA of 3.5 or better.
2. Have a minimum combined score of 1000 on the GRE (verbal and quantitative) taken within the last five years.
3. Have two or more years of successful work experience in programs for children.
4. Submit a statement of professional history and goals and three letters of recommendation to the program coordinator.
5. Note: Applicants from foreign countries will be appraised individually.

Program Requirements
The program requires a minimum of 76 hours beyond the master’s degree.
Program of Study
- Specialization
Ph.D. in Curriculum and Instruction with an Emphasis in Elementary Education (DEE)

Additional Admission Requirements
In addition to University and College requirements, applicants must satisfy the following
1. Be eligible for certification in at least one related area in elementary education.
2. Have a GPA of 3.5 or better in post baccalaureate coursework.
3. Hold a degree in Elementary Education.
4. Have a minimum GRE score of 1000 (verbal and quantitative) taken within the last five years.
5. Have at least two years of successful experience in a professional role with children.
6. Hold a master's degree in education with a minimum of 10 graduate hours in elementary education; if this requirement is not met, admission may be granted with the understanding that the applicant's program will be lengthened to meet prerequisites.
7. Submit a statement of professional history and goals and three letters of recommendation to program coordinator.
8. Note: Applicants from foreign countries will be appraised individually.

Program Requirements
The program requires a minimum of 76 hours beyond the master's degree.

Program of Study
Specialization
- Elementary Education Specialization
- Curriculum and Instruction
- Dissertation

Cognate Area
- Statistics/Measurement/Research Design
  (incl. Tool requirement)
- Psychological and Social Foundations

Dissertation, Residency, and Doctoral Qualifying Examination
See section with College Requirements.
Degrees:  
M.A. in Reading Education  
Ed.S. in Curriculum and Instruction with an emphasis in Reading/Language Arts Education  
Ph.D. in Curriculum and Instruction with an emphasis in Reading/Language Arts Education

M.A. in Reading Education (ARD)

This degree is designed to prepare special reading teachers, clinicians, supervisors, directors, and coordinators of reading for school systems.

Additional Program Requirements
In addition to University and College requirements, the applicant must satisfy the following: program with an undergraduate major outside of elementary education will be required to take RED 4310, RED 4511, and LAE 4414 or LAE 6415 before beginning the specialization sequence.

Program Requirements
Program of Study  
Process Core  
EDF 6481  
Current Trends in Reading Education (RED 6116)  
Specialization  
RED 6247  RED 6365  RED 6540  
RED 6544  RED 6545  RED 6747  
LAE 6616  
Elective (chosen in consultation with the advisor)  
Comprehensive Examination

Selectivity retention policies require students to maintain a "B" average, with no more than three hours of "C" work in the major area courses (all Reading Education [RED] courses) and a total of no more than 6 hours of "C" work in the program. If either of these requirements is not met, the student will be dropped from the program. Reinstatement may occur when the student retakes one of the courses in which a "C" was earned and receives an "A".

Plan II and plan III options are also available for non-certified students. Plan II students must first obtain certification in a teaching area (e.g., English). Reading certification is an "add on" after initial certification. Plan III students do not earn certification; this option is usually open only to college teachers.

Ed.S. in Curriculum and Instruction with an Emphasis in Reading/Language Arts Education (SRD)

Prepares educational leaders with expertise in R/LA processes for designing, implementing, and evaluating R/LA instructional materials and teaching methods. The Ed.S. program is separate from the Ph.D. program and is planned as a terminal degree. Ed.S. coursework is not necessarily applicable to the Ph.D. degree.
Additional Admission Requirements
In addition to University and College requirements, applicants must satisfy the following:

1. Have at least one year of successful experience in a professional school role.
2. Hold a master's degree in education with a minimum of 16 graduate hours in R/LA or related disciplines. If this is not met, admission may be granted if the student is willing to lengthen the program to meet prerequisites.
3. Have post-baccalaureate work with a GPA of 3.25 or better.
4. Have certification in at least one related area of education.
5. Submit a statement of professional history and goals to the program coordinator.
6. Note: Applicants from foreign countries will be appraised individually.

Program Requirements
The program requires a minimum of 36 hours beyond the master's degree.

Program of Study
- Specialization in R/LA: 15 hours minimum
- Electives: 12 hours
- Project/thesis: 9 hours minimum
- Comprehensive Examination: All represent post-master's credit and are minimum requirements.

Ph.D. Degree in Curriculum and Instruction with an Emphasis in Reading/Language Arts Education (DRD)

Additional Admission Requirements
In addition to University and College requirements, applicants must satisfy the following:

1. Have at least one year of successful experience in a professional school role.
2. Hold a master's degree in education with a minimum of 10 graduate hours in R/LA or related disciplines; if this is not met, admission may be granted if the student is willing to lengthen the program to meet prerequisites.
3. Have a GPA of 3.5 or better in post-baccalaureate coursework.
4. Hold certification in at least one related area in education.
5. Submit a statement of professional history and goals to the program coordinator.
6. Note: Applicants from foreign countries will be appraised individually.
7. Have minimum combined score of 1000 (verbal quantitative) on the GRE, taken within the last five years.

Program Requirements
The program requires a minimum of 75 hours beyond the master's degree.

Program of Study
- Specialization
  - Reading/Language Arts specialization: 18 hours minimum
  - Curriculum and Instruction: 3 hours
- Cognate Area
  - Statistics/Measurement/Research Design: 7-8 hours minimum
  - Psychological and Social Foundations: 24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination
See section with College Requirements.
Course Descriptions

Early Childhood Education

EEC 6261 ADVANCED PROGRAMS IN EARLY CHILDHOOD EDUCATION (3) Innovative curriculum designs in Early Childhood Education, with emphasis given to related research. (PR: EDF 6432, EEC 4203 or CI)

EEC 6405 HOME - SCHOOL - COMMUNITY INTERACTION IN EARLY CHILDHOOD EDUCATION (3) Roles of parents, teacher aides, and community agencies involved in the education of the young child. (PR: EDG 6432, EEC 4203, or CI)

EEC 6406 SOCIAL GROWTH IN CHILDHOOD (3) Principal factors that influence the social development of young children with particular emphasis upon those cultural influences that affect both child development and the educational programs for the young child.

EEC 6705 INTELLECTUAL GROWTH IN CHILDHOOD (3) Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.

EEC 6926 WORKSHOP IN EARLY CHILDHOOD EDUCATION (3) Individual problems and innovations related to methods and materials of instruction in early childhood.


EEC 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

Elementary Education

ARE 6358 ART FOR THE ELEMENTARY SCHOOL TEACHER (3) Exploration of various materials and techniques in relationship to current theories about art and the intellectual, creative, emotional, and aesthetic growth of children.

EDE 6305 CREATIVE TEACHING IN THE ELEMENTARY SCHOOL (3) Creative processes and principles in the teaching of the arts and content subjects to elementary school pupils.

EDE 6906 INDEPENDENT STUDY: ELEMENTARY/EARLY CHILDHOOD EDUCATION (1-6) Independent study in which students must have a contract. Rpt. S/U.

EDE 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U (MA/EdS Candidates only)

EDE 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admitted to Candidacy)

MAE 6115 CURRENT TRENDS IN ELEMENTARY MATHEMATICS EDUCATION (3) Philosophy, content, and process of mathematics instruction in elementary school programs. (PR: MAE 4310 or equiv.)
MAE 6549 ADVANCED PRACTICUM IN DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (1-6) Supervised conduct of a case study with a student experiencing learning difficulties in mathematics. Procedures and reporting practices developed in MAE 6516 reviewed and extended. (PR: MAE 6516)

SSE 6617 TRENDS IN SOCIAL STUDIES INSTRUCTION (3) Crucial concepts drawn from the social sciences. Analysis of the problems approach. Students will select an area of independent study on an advanced level. (PR: SSE 4313)

SSE 6616 TRENDS IN SCIENCE INSTRUCTION (3) Topics in the biological and physical sciences appropriate for teaching in elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry. (PR: SCE 4310)

Language Arts

LAE 6301 LANGUAGE LEARNING IN CHILDHOOD (3) Research used to assess the language behavior of normal children and application of selected research methodology to understanding linguistic behavior of children.

LAE 6315 TEACHING WRITING IN THE ELEMENTARY CLASSROOM (3) Development of writing, its functions, conventions, and processes, and instructional strategies to be used across the elementary curriculum. Emphasis on both process and products generated by students. Available to majors and nonmajors. (PR: LAE 4314 or LAE 4355 or LAE 4642 or CI)

LAE 6415 LITERATURE AND THE LEARNER (3) Nature, scope, and uses of literature for instructional, information, and recreational purposes and implications of current theory, significant research, and issues in literature study as they relate to the learner.

LAE 6616 TRENDS IN LANGUAGE ARTS INSTRUCTION (3) Significant concepts, emerging trends, research, and instructional techniques for implementation and utilization of language arts in all areas of the curriculum. (PR: LAE 4314 or equivalent or CI)

LAE 7617 THEORIES AND PATTERNS OF ADVANCED LANGUAGE ARTS INSTRUCTION (3) New research findings and theories relating to language patterns and contemporary programs for teaching language arts. (PR: LAE 6616 or equiv.)

LAE 7747 LITERATURE PROGRAM DESIGN (3) Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs. (PR: EDF 6481, LAE 6415, or LAE 6336 or CI)

Reading

RED 6116 CURRENT TRENDS IN ELEMENTARY READING INSTRUCTION (3) Approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research. Not to be used as a first course in reading. (PR: RED 4310 or equiv.)

RED 6247 CURRICULUM AND SUPERVISION PROBLEMS IN READING (3) Planning and administering programs and preparation as consultants in reading. Intensive work on individual and group projects. Research paper required. (PR: RED 6116, RED 6540, RED 6544 or RED 6545, or CI)
RED 6365 READING IN SECONDARY AND HIGHER EDUCATION (3) Designed for student and in-service teachers with appropriate B.A. degrees. Content covers secondary, community college, and university levels. Organization permits student to work on applications to individual levels and disciplines. Research paper required. (PR: CI and GS)

RED 6516 CORRECTIVE READING IN THE CLASSROOM (3) Use of diagnostic and prescriptive procedures with individual and group reading instruction. (PR: RED 4310 or CI)

RED 6540 CLASSROOM DIAGNOSIS OF READING PROBLEMS (3) Multiple factors related to reading problems and sources of information for assessing reading performance. Use of informal diagnostic instruments in the classroom. (PR: RED 6116 or CI)

RED 6544 REMEDIATION OF COMPREHENSION PROBLEMS (3) Methods and materials for teaching reading and listening comprehension. (PR: RED 6116 or CI)

RED 6545 REMEDIATION OF READING AND WRITING VOCABULARY PROBLEMS (3) Methods and materials for teaching vocabulary and word identification for reading. (PR: RED 6116 or CI)

RED 6747 SURVEY OF READING RESEARCH (3) Location of research information, the reading and evaluation of research, and the identification and understanding of important studies. (PR: EDF 6432, EDF 6481, or CI)

RED 6906 INDEPENDENT STUDY: READING EDUCATION (1-6) Independent study in which students must have a contract with an instructor. Rpt. S/U.


RED 7048 READING AS A SYMBOLIC PROCESS (3) Seminar designed to develop critical thinking about the reading process and reading acquisition. (PR: RED 6116 or RED 6365, GS or CI)

RED 7745 RESEARCH IN READING INSTRUCTION (3) Seminar examining in depth the current research on instruction in the field of reading education. (PR: RED 6116 or RED 6365, GS or CI)

RED 7938 ADVANCED GRADUATE SEMINAR IN READING/LANGUAGE ARTS (3) Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Rpt. to 6 hours. Required for each Ph.D. Student.

RED 7980 DISSERTATION: DOCTORAL (2-24 Var.) (Admission to Candidacy)

General

EDG 6415 PROJECT P.R.I.D.E. (PROFESSIONAL REFINEMENTS IN DEVELOPING EFFECTIVENESS) (3) Topics in academic questioning techniques, nonverbal communication, motivating changes in behavior, managing critical incidents in the classroom, and analyzing typical classroom practices for positive or negative impact. (PR: CC)
EDG 6416 PROJECT T.E.A.C.H. (TEACHER EFFECTIVENESS AND CLASSROOM HANDLING) (3) Topics and techniques in verbal communication skills, questioning, paraphrasing, positive support skills, problem solving, counseling techniques, nonconfrontation strategies, group dynamics, and discipline decision making. (PR: CC)

EDG 6417 TEACHING THROUGH LEARNING CHANNELS (3) Focus on the area of teaching effectiveness in the cognitive domain and skill training on the identification and use of student learning channel strengths; analysis of curriculum based on learning channels to identify the skills necessary to complete learning tasks; the development of alternative strategies to meet the needs of all students. (PR: CC)

EDG 6935 SEMINAR IN CURRICULUM RESEARCH (3) Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements. (PR: EDF 6481)
Educational Measurement and Research

4202 E. Fowler Avenue, EDU 162
Tampa, FL 33620
(813) 974-3220
WebAddress: http://www.coedu.usf.edu

Chairperson: Bruce W. Hall
Program Director: Bruce W. Hall

Faculty: Madhabi Banerji, Lou M. Carey, Robert F. Dedrick, John M. Ferron, Bruce W. Hall, Constance V. Hines, William G. Katzenmeyer, Jeffrey D. Kromrey, W. Steve Lang

Degrees Offered: M.Ed., Ph.D.

Programs: M.Ed. in Curriculum and Instruction with an emphasis in Measurement and Evaluation
Ed.S. in Curriculum and Instruction with an emphasis in Measurement and Evaluation
Ph.D. in Curriculum and Instruction with an emphasis in Measurement and Evaluation

M.Ed. in Curriculum and Instruction with an emphasis in Measurement and Evaluation (CME)

This degree program is designed to prepare mid-level testing and evaluation personnel for employment in school districts, state government agencies and commercial test development, and program research and evaluation enterprises. The program prepares personnel with specialized skills in test construction, program evaluation, research design, and data analysis.

Additional Admission Requirements
In addition to University requirements, the applicant must:
1. Satisfy the College of Education GPA and GRE requirements
2. Have two years of relevant experience in education
3. Submit a written statement of purpose and a writing sample
4. Complete interviews with department faculty

Program Requirements

Program of Study

<table>
<thead>
<tr>
<th>Process Core</th>
<th>40 hours minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum and Instruction</td>
<td>12-14 hours</td>
</tr>
<tr>
<td>EDG 6627 (3)</td>
<td>3 hours</td>
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<table>
<thead>
<tr>
<th>Specialization</th>
<th>25 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6492 (3)</td>
<td>EDF 6288 (3)</td>
</tr>
<tr>
<td>EDF 6407 (4)</td>
<td>EDF 7408 (4)</td>
</tr>
<tr>
<td>EDF 7488 (2)</td>
<td>EME Computer Elective (6)</td>
</tr>
<tr>
<td>EDF 6446 (3)</td>
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</tr>
</tbody>
</table>

Comprehensive Examinations
Ed.S. in Curriculum and Instruction with an Emphasis in Measurement and Evaluation (SME)

This program prepares specialists for work in school districts, government agencies, and commercial test development and program research and evaluation enterprises.

Additional Admission Requirements
In addition to the University requirements, the applicant must:
1. Satisfy the College of Education GPA and GRE requirements
2. Hold a master's degree
3. Submit a written statement of purpose and a writing sample
4. Complete interviews with three departmental faculty

Program Requirements
The program is individually planned with an advisor to include coursework in systematic planning, test development, program evaluation, research design, and statistical analysis. (Contact Department Chair) Courses at the 5000 level are inappropriate, and a minimum of 15 hours should be taken at the 7000 level.

Program of Study

<table>
<thead>
<tr>
<th>Specialization</th>
<th>36 hours minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>18 hours minimum</td>
</tr>
<tr>
<td>Thesis/Project</td>
<td>9 hours minimum</td>
</tr>
<tr>
<td>(Refer to College listing for information)</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>Oral defense of Thesis/Project</td>
<td></td>
</tr>
</tbody>
</table>

Ph.D. in Curriculum and Instruction with an Emphasis in Measurement and Evaluation (DME)

Focus in this degree is on developing systematic inquiry skills essential to the objective study, research, and evaluation of educational processes and products. The intent of the program is to develop instructional and research personnel who can strengthen the training, research and development capabilities of agencies and institutions concerned with education. Emphasis is placed on those aspects of research and evaluation design, measurement, statistical analysis, and systems approaches that are relevant to both decision-oriented and conclusion-oriented research. In addition to consideration of traditional experimental designs, attention is given to quasi-experimental, survey, policy analysis, historical, ethnographic, case study, and naturalistic approaches. A supervised practicum provides opportunities for the application of acquired inquiry skills.

While the doctoral program in measurement and evaluation emphasizes methodology, concentration in substantive disciplines within education and/or the social sciences is possible. Concentration in a cognate provides a context within which the methods of systematic inquiry may be applied.

Additional Admission Requirements
In addition to the University requirements, the applicant must:
1. Satisfy the College of Education GPA and GRE requirements
2. Hold a master's degree
3. Submit a written statement of purpose and a writing sample
4. Complete interviews with three departmental faculty
Program Requirements

Program of Study

Specialization

Major Emphasis Area
- EDF 7940 (8)
- EDF 7488 (2)
- EDF 7910 (3)

Curriculum and Instruction
- EDG 7667 (3) or EDG 7692 (3)

Cognate Area
Statistics/Measurement/Research Design
- EDF 6407 (4)
- EDF 7408 (4)
- EDF 7437 (3)
- EDF 7438 (4)

Foundations (Psychological and Social)
- Dissertation

28 hours minimum
3 hours
12 hours minimum
19 hours
7-8 hours minimum
24 hours minimum

Dissertation, Residency and Doctoral Qualifying Examination

See section with College requirements.

Course Descriptions:

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4) Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3) Basic measurement concepts, role of measurement in education, construction of teacher-made tests and other classroom assessments, interpretation of standardized tests, and fundamental descriptive statistics for use in test interpretation.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3) Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3) Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432, or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3) Design, development, implementation, interpretation, and communication of both formative and summative educational program evaluation studies. (PR: EDF 6432, EDF 6446, or CI)

EDF 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4) Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression — a specific technique and a general approach to data analysis. Coordinated use of computer included. (PR: EDF 6407 or equiv. or CI)
EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION (4) Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies. (PR: EDF 6407, EDF 7408 or equiv. or CI)

EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I (3) Logical, empirical, and statistical models of measurement processes. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education. (PR: EDF 6432 or equiv.)

EDF 7438 ADVANCED EDUCATIONAL MEASUREMENT II (4) Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Validation theory, and construction and validation of instruments for measurements in education. (PR: EDF 7437 or CI)

EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III (4) Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminant Analysis, Multivariate Analysis of Variance, Factor Analysis, and Path Analysis. (PR: EDF 7408 or CI)

EDF 7477 QUALITATIVE RESEARCH IN EDUCATION PART I (4) First of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research in educational settings. (PR: Advanced GS or CI)

EDF 7478 QUALITATIVE RESEARCH IN EDUCATION PART II (4) Second of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research. (PR: Advanced GS or CI and EDF 7477)

EDF 7485 THEORY AND PRACTICE OF EDUCATION EVALUATION (3) Comparative analysis of contemporary evaluation approaches; theory and scientific basis of evaluation; social and political impact of evaluation on educational decision making; and the design, implementation and reporting of evaluation studies. (PR: EDF 7493 or CI)

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2) Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT (4) Systems theory applied to problems in program planning, evaluation, and development. Analysis of evaluation models and policy analysis. Application of Networking, PERT, and Modeling procedures to selected problems in education. Emphasis on decision oriented research. (PR: Advanced GS or CI)

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT (1-8) Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity. Rpt. up to 8 hours. S/U. (PR: EDF 7408, EDF 7493)

EDF 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

Interdisciplinary Education

4202 E. Fowler Avenue, EDU 162
Tampa, Fl 33620
(813) 974-9471
(located EDU 380 S )
WebAddress: http://www.coedu.usf.edu

Coordinator: Erwin V. Johanningsmeier

Degrees Offered: Ph.D., Ed.S
Programs: Ph.D. in Curriculum and Instruction with an Emphasis in Interdisciplinary Education

Ed.S in Curriculum and Instruction with an Emphasis in Interdisciplinary Education

The purpose of the Interdisciplinary Education program is to provide opportunities for those students who have educational backgrounds and interests that span a variety of disciplines to integrate study and research across these disciplines to solve an educational problem.

Ed.S in Curriculum and Instruction with an Emphasis in Interdisciplinary Education

Program Requirements

Contact the program coordinator for details.

Ph.D. in Curriculum and Instruction with an Emphasis in Interdisciplinary Education

Additional Admission Requirements

In addition to University and College requirements, the applicant must satisfy the following:

1. have a minimum GRE score of 1000 (verbal and quantitative), taken with in the last five years
2. hold an earned master's degree from a regionally accredited institution of higher education.
3. have a grade point average of at least 3.0 for the last half of the baccalaureate degree and a 3.5 GPA in a master's program
4. submit three letters of recommendation from persons knowledgeable about the applicant's academic competence
5. articulate in a clearly written statement the scope and rationale for the proposed program of study and research.

Program Requirements

Contact the program coordinator for details.
Course Descriptions:

EDG 7980 DISSERTATION (2-24 Var.) Rpt. Interdisciplinary Education only. S/U (PR: Admitted to Candidacy)

EDG 6971 THESIS: MASTERS/EDUCATION SPECIALIST (2-19 Var.) Rpt. Interdisciplinary Studies only. S/U.
Leadership Development
4202 E. Fowler Avenue, EDU 162
Tampa, Fl 33620
(813) 974-3420
(located EDU158A)
WebAddress: http://www.coedu.usf.edu

Chairperson: William Young

Faculty: William Benjamin, William Blank, Joseph Bondi, William Danenberg*, Dan Gardner, Jack Grisham, Chuck Hewitt, Jan Ignash, Wayne James, Richard O'Sullivan, Donald E. Orlosky*, Steve Permuth, Janet Scaglione, Arthur Shapiro, Kenneth Smith, Karolyn Snyder, Robert Sullins, Lynn Taber, Lester Tuttle, Melvin Vlleme
*Emeritus

Degrees Offered: M.A., M.Ed., Ed.S., Ed.D., Ph.D.

Programs:
Adult Education
Educational Leadership (K-12 and Community College)
Higher Education/Community College Teaching
Vocational Education

Adult Education

Program Coordinator (M.A.): Dan Gardner
Program Coordinator (Ed.S., Ed.D., Ph.D.): Waynne James

Degrees: M.A. in Adult Education
M.A. in Adult Education -- Training and Staff Development
Ed.S. in Curriculum and Instruction with an Emphasis in Adult Education
Ed.D. in Educational Program Development with and Emphasis in Adult Education
Ph.D. in Curriculum and Instruction with an Emphasis in Adult Education

The Adult Education program provides professional development opportunities to individuals concerned with the learning of adults. It includes courses and experiences for persons employed in or intending to enter adult education as a field of study.

M.A. in Adult Education (AAE)

This degree is intended to help individuals work with adult learners in a wide variety of school and non-school settings. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.
Additional Admission Requirements

In addition to the University and College requirements, applicants must:

1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the department chairperson/school director.

Program Requirements

A minimum of 36 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program. This program is available in Plan III.

Program of Study (non-thesis option) - Plan III

<table>
<thead>
<tr>
<th>Process Core</th>
<th>6 hours</th>
</tr>
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<tbody>
<tr>
<td>EDF 6481 or EDF 6432 and one approved Psychological or Social Foundations course.</td>
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</tr>
<tr>
<td>Current Trends in Adult Education (ADE 6080)</td>
<td>4 hours</td>
</tr>
<tr>
<td>Specialization (non-thesis option)</td>
<td>26 hours</td>
</tr>
<tr>
<td>Specialization hours are designed to provide competence in areas associated with adult learners: instruction, curriculum development, program planning, organization and</td>
<td></td>
</tr>
<tr>
<td>Specialization in Adult Education</td>
<td>12 hours minimum</td>
</tr>
<tr>
<td>Required courses</td>
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</tr>
<tr>
<td>ADE 6385</td>
<td>EVT 6930</td>
</tr>
<tr>
<td>Remaining hours to be selected from among:</td>
<td></td>
</tr>
<tr>
<td>ADE 6160</td>
<td>ADE 6161</td>
</tr>
<tr>
<td>ADE 6370</td>
<td>ADE 6380</td>
</tr>
<tr>
<td>Electives</td>
<td>14 hours minimum</td>
</tr>
<tr>
<td>Courses in a related area may include those from psychology, sociology, guidance, administration, gerontology, or any related field. At least one course must be taken outside this Department.</td>
<td></td>
</tr>
</tbody>
</table>

Comprehensive Examination

Thesis: A Thesis option is available.

M.A. in Adult Education --

Training and Staff Development (ADE-TSD)

The Training and Staff Development (TSD) program is designed to develop knowledge and specific competencies required to prepare trainers to function successfully in both profit and non-profit organizations. The coursework is interdisciplinary, derived from an analysis of theory and skills recognized as essential in improving employee performance. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.

Additional Admission Requirements

In addition to the University and college requirements, applicants must:

1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the department chairperson/school director.
Program Requirements
A minimum of 36 semester hours is required for the master’s degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master’s degree program. This program is available in Plan III.

Program of Study (non-thesis option) - Plan III

Process Core
- EDF 6432, EDF 6481 or the required Foundations (EDF) courses listed in the Area of Specialization.

Specialization
- Requirements of up to 24 hours include the following, with substitutions to be made appropriate to the individual’s background and experience. A practicum of 3-6 hours (ADE 6946) is required as part of the Area of Specialization.

- ADE 6385*
- EDF 6165*
- EDF 6166*
- ADE 6946*
- EDF 6167*
- EDF 6281*
- ADE 6370
- EDF 6288*
- EDF 7655
- ADE 6360
- EVT 5369
- MAN 6305 or MAN 6204 or SYO 6545

*electives or equivalent.

Comprehensive Examination
- 6 hours

Ed.S. in Curriculum and Instruction --
with an emphasis in Adult Education (SAE)

Prepares practitioners and teachers for the broad field of Adult Education; includes public and proprietary schools, public school and non-school settings such as community agencies, correctional institutions and business and industry.

Additional Admission Requirements
In addition to University and College requirements, applicants must:

1. Have previous experience or a strong desire to work with adults in meeting their formal or informal education/training needs.
2. Meet College-specific minimum GRE and minimum GPA requirements.
3. Hold a Master’s degree from an accredited institution of higher education.
4. Satisfy any additional academic requirements of the program of specialization.
5. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.
6. Obtain favorable recommendations from the program faculty.

Program Requirements
The Ed.S. degree consists of a minimum of 36 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. Each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study

- Specialization coursework
- Electives
- Thesis/Project
- Comprehensive Examination
- Oral defense of the project/thesis
Ed.D. In Educational Program Development --
With an Emphasis in Adult Education (EAE)

Prepares leaders for a variety of school and non-school settings such as community colleges, preparatory schools, community agencies, corporate training centers and others. The Ed.D. may be pursued while maintaining a full-time job. This degree is designed to develop competencies of educational practitioners and to obtain and synthesize knowledge for the solution of educational problems and practices.

Additional Admission Requirements
In addition to University and College requirements, applicants must:
1. Have previous experience or a strong desire to work with adults in meeting their formal or informal education/training needs;
2. Submit a personal statement of his/her vision for Adult Education for the future;
3. Have a minimum total score of 1000 on the GRE (Verbal and Quantitative) taken within the last five years;
4. Have a 3.0 GPA in work while an upper division student in the baccalaureate degree or master’s level GPA of 3.5 minimum;
5. Hold a master’s degree from an accredited institution of higher education;
6. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence;
7. Obtain favorable recommendations from the program faculty;
8. Interview with the department doctoral committee.

Program Requirements
The program requires a minimum of 80 hours beyond the master’s degree:

Program of Study

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Specialization in Adult Education</td>
<td>24</td>
</tr>
<tr>
<td>Curriculum and Instruction</td>
<td>6</td>
</tr>
<tr>
<td>Statistics/Measurement/Research Design</td>
<td>12</td>
</tr>
<tr>
<td>Foundations Area</td>
<td>11-12</td>
</tr>
<tr>
<td>Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>Dissertation</td>
<td>24</td>
</tr>
</tbody>
</table>

Dissertation, Residency, and Doctoral Qualifying Examination.
See section with College requirements. The department requires additional residency requirements beyond the College and University requirements. Please check with your advisor for details.

Ph.D. in Curriculum and Instruction
with an Emphasis in Adult Education (DAE)

Prepares leaders, researchers, university faculty, and related personnel to serve in the broad field of Adult Education.

Additional Admission Requirements
In addition to University and College requirements, applicants must
1. Have a minimum total score of 1000 on the GRE (verbal and quantitative) taken within the last five years;
2. Have a 3.0 GPA in work while an upper division student in the baccalaureate degree or master’s level GPA of 3.5 minimum;
3. Submit a personal statement of the applicant’s vision for Adult Education for the future;
4. Hold a Master’s degree from an accredited institution of higher education;
5. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence;
6. Obtain favorable recommendations from the program faculty;
7. Interview with the departmental doctoral committee.

Program Requirements
The program requires a minimum of 83 hours beyond the master’s degree
- Specialization in Adult Education: 21 hours
- Curriculum and Instruction: 3 hours
- Cognate (Measurement/Research cognate required): 12 hours
- Statistics/Measurement/Research Design: 12 hours
- Psychological and Social Foundations: 8-9 hours
- Dissertation (ADE 7980): 24 hours

Dissertation, Residency, and Doctoral Qualifying Examination.
See section with College requirements.

Course Descriptions:

ADE 6080 ADULT EDUCATION IN THE UNITED STATES (4) A study of the adult education movement in the United States from its beginnings to the present lifelong learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future.

ADE 6160 PROGRAM MANAGEMENT IN ADULT EDUCATION (3) An examination of the methods for establishing a productive adult education program, and the principles and procedures involved in designing, organizing, operating, and evaluating comprehensive adult education and training programs.

ADE 6161 CURRICULUM CONSTRUCTION IN ADULT EDUCATION (4) The process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning environment.

ADE 6197 ADULT BASIC EDUCATION (4) An overview of adult basic education with an emphasis on current issues and problems of curriculum and instruction in program development and on culturally different adults.

ADE 6280 ADMINISTRATION IN LOCAL ADULT EDUCATION PROGRAMS (4) A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within federal, state, and local requirements.

ADE 6287 SUPERVISION OF LOCAL ADULT EDUCATION PROGRAMS (4) A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.
ADE 6360 METHODS OF TEACHING ADULT EDUCATION (3) An exploration of different methods, techniques, and materials available to help adults learn. Concentration on the process of designing effective learning experiences for adults and developing the competencies of self-directed learning.

ADE 6370 TRAINERS IN BUSINESS AND INDUSTRY (3) A study of trainers in business and industry and acquisition of several key competencies required to fulfill this role.

ADE 6385 THE ADULT LEARNER (3) An investigation of the physiological and psychological changes in the adult life span and the implications these have for adult learning capabilities. Concentration on the identification of principles of adult learning, differences between adults and youth as learners, and a review of research on adult learning.

ADE 6946 PRACTICUM IN ADULT EDUCATION (2-6) A problem-centered field study in the local community, school, government, office, social agency, business, or industry setting.

ADE 6971 THESIS: MASTERS/EDUCATION SPECIALIST (2-19 Var.) Rpt. S/U (MA/EdS Candidates only)

ADE 7388 ADULT DEVELOPMENT AND LEARNING (3) This is an advanced in-depth study of the distinctive characteristics of adult life and learning. (PR: ADE 6385 or equiv.)

ADE 7910 DIRECTED RESEARCH IN ADULT EDUCATION (1-4) Directed research on topics related to adult education. Rpt up to 8 hours. (PR: Advanced graduate level)

ADE 7937 SEMINAR IN ADULT EDUCATION (1-4) Seminar in advanced topics in Adult Education. Rpt up to 12 hours. (PR: Advanced Graduate Level or CI)

ADE 7947 ADVANCED INTERNSHIP: ADULT EDUCATION (2-4) Supervised field experiences in an approved adult education setting (e.g., an agency, school, or institution). RPT up to 8 hours. S/U. (PR: Advanced graduate level only)

ADE 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admitted to Candidacy)

**Educational Leadership (K-12 and Community College)**

Program Coordinators:
- Educational Leadership (M.Ed.)
- Administration and Supervision: K-12 Emphasis (Ed.S., Ed.D.)
- Educational Leadership: Community College Emphasis (Ed.S., Ed.D)

Mel Villeme
Bill Benjamin
Bill Young

Degrees:
- M.Ed. in Educational Leadership
- Ed.S. in Educational Leadership: K-12 Emphasis
- Ed.S. in Educational Leadership: Community College Emphasis
- Ed.D. in Educational Leadership: K-12 Emphasis
- Ed.D. in Educational Leadership: Community College Emphasis

Educational Leadership provides programs that are designed to improve performance in K-12 school leadership, and community college leadership positions.
M.Ed. in Educational Leadership (CAS)

Prepares administrators and supervisors by providing them with organizational, management, and instructional leadership skills. Students may specialize in one of four program tracks:

1. Early Childhood
2. Middle/Jr. High School
3. High school
4. Special education

Successful completion of the program leads to Florida certification in Educational Leadership.

Additional Admission Requirements

In addition to University and College requirements, applicants:

1. Must meet the college-specified minimum GRE and GPA requirements.
2. Must satisfy any additional academic requirements of the program of specialization.
3. Seeking K-12 Educational Leadership Certification must have certification in a teaching field and at least 2 years of successful teaching experience.
4. NOT seeking Educational Leadership Certification must have two or more years of relevant work experience.

Program Requirements

Course requirements vary based on student interest and experience. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master’s program.

Program of Study

Required Courses

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<thead>
<tr>
<th>Course</th>
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Specialization Courses

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</table>

Electives

Six elective hours in Educational Leadership and three elective hours in Foundations. Students already holding a master’s degree and meeting all admission requirements may have the 9 hours of electives waived.

Comprehensive Examination

Ed.S. in Educational Leadership: K-12 Emphasis (SAS)

Prepares individuals for educational leadership positions.

Additional Admission Requirements

In addition to University and College requirements, applicants must:

1. Meet College-specific minimum GRE and minimum GPA requirements.
2. Hold a Master’s degree from an accredited institution of higher education.
3. Satisfy any additional academic requirements of the program of specialization.
4. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.
5. Have certification in Educational Leadership and approval by the Educational Leadership faculty.
6. Contact the Educational Leadership Department prior to making application to Graduate Admissions.

Program Requirements
The Ed.S. degree consists of a minimum of 36 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. It is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level. This program requires a minimum of 38 hours.

Program of Study
Specialization
   Educational Administration/Supervision/Curriculum
 Including the following required courses:
      EDF 6407    EDF 7408
      EME 6930 (or other computer applications course)
Electives
   Thesis/Project
   Comprehensive Examination

Thesis/Project
Refer to College listing for information.

Ed.D. in Educational Leadership: K-12 Emphasis (EAS)
Prepares individuals for educational leadership positions.

Additional Admission Requirements
In addition to University and College requirements, applicants must:

1. have a minimum total score of 1000 on the GRE (Verbal and Quantitative) taken within the last five years;
2. have a 3.0 GPA in work while an upper division student in the baccalaureate degree or master’s level GPA of 3.5 minimum;
3. hold a master’s degree from an accredited institution of higher education;
4. have Certification in Educational Leadership
5. submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence;
6. contact the Educational Leadership Department prior to making application to Graduate Admissions

Program of Study
Educational Administration/Supervision Specialization includes EME 6930 (or other computer applications course)
Curriculum and Instruction
   Statistics/Measurement/Research Design
   Psychological and Social Foundations
Language/Computer Applications (non-credit)
Computer Applications
Dissertation

Refer to College listing for information.
Ed.S.in Educational Leadership:Community College Emphasis (SCA)

Prepares individuals for educational leadership positions in community colleges.

Additional Admission Requirements
In addition to University and College requirements, applicants must:
1. Meet College-specific minimum GRE and minimum GPA requirements
2. Hold a Master’s degree from an accredited institution of higher education
3. Satisfy any additional academic requirements of the program of specialization.
4. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.
5. Obtain favorable recommendation of the Department’s program admissions committee.
6. Contact the Leadership Development Department prior to making application to Graduate Admissions.

Program Requirements
The Ed.S. degree consists of a minimum of 38 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. It is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level. This program requires a minimum of 38 hours.

Program of Study
Specialization
Community College Administration/Supervision/Curriculum 26 hours
Required Courses
EDF 6407  EDF 7408
Computer application course
Electives
Project/Thesis
3 hours
Comprehensive Examination
Oral Defense of the project/thesis
9 hours

Project/Thesis
Refer to College listing for information

Ed.D. in Educational Leadership: Community College Emphasis (ECA)

Prepares individuals for educational leadership positions in community colleges.

Additional Admission Requirements
In addition to University and College requirements, applicants must:
1. have a minimum total score of 1000 on the GRE (verbal and quantitative) taken within the last five years.
2. have a 3.0 GPA in work while an upper division student in the baccalaureate degree or master's level GPA 3.5 minimum.
3. hold a master's degree from an accredited institution of higher education.
4. submit a letter of intent including education/career objectives
5. submit three letters of recommendation from persons knowledgeable about the applicant's academic and professional competence.
6. interview with the Department Program Admissions Committee
7. develop and on-site writing sample
8. contact the Department of Leadership Development prior to making application the Graduate Admissions.

Program Requirements
Program of Study 83-85 hours minimum
Specialization in Higher Education/Community College includes 3 hours internship ADE 7947 (minimum 90 clock hours)
Curriculum and Instruction at 7000 level 6 hours
Statistics/Measurement/Research Design 11-12 hours
Psychological and Social Foundations 11-12 hours
Computer applications 3 hours
Dissertation 24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination. See section with College requirements.

Higher Education/Community College Teaching

Program Coordinators:
- Junior College Teaching (M.A.) Lynn Taber
- Higher Education Administration (Ph.D.) William Young
- Higher Education-Community College Teaching (Ed.S., Ph.D.) William Young

Degrees:
- M.A. in Junior College Teaching
- Ed.S. in Curriculum and Instruction with an Emphasis in Higher Education-Administration
- Ed.S. in Curriculum and Instruction with an Emphasis in Higher Education-Community College Teaching
- Ph.D. in Curriculum and Instruction with an Emphasis in Higher Education-Administration
- Ph.D. in Curriculum and Instruction with an Emphasis in Higher Education-Community College Teaching

M.A. in Junior College Teaching
A program for holders of non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. Prepares students for teaching at the Junior College Level.

Areas of specialization and Program Codes
- Biology (BIO 90) Business (BUS 90)* Chemistry (CHM 90)
- English (ENG 90) Engineering (EGP 90)** Economics (ECN 90)
- French (FRE 90) Geology (GLY 90) History (HTY 90)
Mathematics (MTH 90)  Physics (PHY 90)  Poli. Science (POL 90)
Sociology (SOC 90)  Spanish (SPA 90)  Speech Comm. (SPE 90)

*Requires minimum score of 475 on GMAT.
**Requires Bachelor's Degree in Engineering.

Additional Admission Requirements
Because of the unique character of the Junior College program, which integrally involves two colleges of the University, admission and other program requirements go beyond the general university and college requirements.

Action on all applications is the joint responsibility of the two colleges involved. Duplicate sets of the student's complete record will be on file in both colleges, with the College of Education given responsibility for making official recommendations for the granting of the degree to the Provost and to the Registrar.

Program Requirements
This program requires 36-39 hours minimum, including an internship. This is an individually planned program developed in consultation with an advisor.

Program of Study

<table>
<thead>
<tr>
<th>Process Core</th>
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<tbody>
<tr>
<td>EDF 6432</td>
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<th>Professional Education Requirement</th>
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<th>Current Trends Course (EDH 6061)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3 hours</td>
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</table>

Specialization 21-24 hours minimum
The sequence to be completed will be designed in consultation with a major field advisor. This program is based on the assumption that the student has an undergraduate background in a specialization area that is roughly equivalent to the pattern of the appropriate USF major. Students admitted without such preparation may be required to take additional coursework as prerequisites. A well-prepared student may be permitted to take fewer courses in the specialization area, substituting approved electives from other fields of study.

Internship 3-6 hours
Full-time supervised teaching for one semester or part-time teaching for two semesters. One-half of the internship must be in the community college, the setting for the other half is left to the discretion of the student's advisor. The internship follows the completion of professional education coursework.

Comprehensive Examination

Ed.S. in Curriculum and Instruction
with an Emphasis in Higher Education (SHI)

This program provides concentrations in the areas of Higher Education Administration or Community College Teaching.
Additional Admission Requirements
In addition to University and College requirements, applicants must:

1. Meet College-specific minimum GRE and minimum GPA requirements
2. Hold a Master’s degree from an accredited institution of higher education
3. Satisfy any additional academic requirements of the program of specialization.
4. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.
5. Have approval by the Educational Leadership faculty.
6. Contact the department prior to making application to Graduate Admissions.

Program Requirements
The Ed.S. degree consists of a minimum of 38 hours (includes 9 hours for the specialist thesis/project) beyond the master’s degree and is flexible in its requirements. It is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
Specialization coursework includes

- EDF 6407
- EDF 7408

Project/Thesis
Comprehensive Examination (Oral and/or written)
Oral defense of the project/thesis
Project/Thesis (Refer to College listing for information)

Ph.D. in Curriculum and Instruction
with an Emphasis in Higher Education Administration or with an Emphasis in Community College Teaching (DHI)

This program provides concentrations in the areas of Higher Education Administration or Community College Teaching

Additional Admission Requirements
In addition to University and College requirements, applicants must

1. Have a minimum total score of 1000 on the GRE (verbal and quantitative) taken within the last five years;
2. Have a 3.0 GPA in work while an upper division student in the baccalaureate degree or master’s level GPA of 3.5 minimum;
3. Hold a Master’s degree from a regionally accredited institution of higher education;
4. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence;
5. Interview with the departmental doctoral committee.
6. Develop a writing sample on-site (Contact Program Coordinator for details)
7. Obtain favorable recommendations from the program faculty;

Program Requirements
The program requires a minimum of 81 hours beyond the master’s degree specialization

- 21 hours
Curriculum 3 hours
Cognate 12 hours minimum
Statistics/Measurement/Research Design 11-12 hours minimum
Psychological and Social Foundations 7-8 hours
Internship (ADE 7947) 3 hours
Dissertation (ADE 7980) 24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination.
See section with College requirements.

Course Descriptions:

Educational Leadership/Administration

EDA 6061 PRINCIPLES OF EDUCATIONAL ADMINISTRATION (3) Educational administration as a profession. Consideration of organization, control, and support of the educational system.

EDA 6106 ADMINISTRATIVE ANALYSIS AND CHANGE (3) Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and will apply them to selected situations. (PR: EDA 6061)

EDA 6192 EDUCATIONAL LEADERSHIP (3) Administration course that addresses change, influences, and planning systems. Also examines personnel functions for administrators. (PR: EDA 6061)

EDA 6195 POLICY DEVELOPMENT (3) Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies. (PR: EDA 6061)

EDA 6232 SCHOOL LAW (3) Basic essentials of School Law. A review of court decisions affecting American education with emphasis on Florida State statutes. (PR: GS, EDA 6061, or CI)

EDA 6242 SCHOOL FINANCE (3) Financial support of education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting. (PR: GS, EDA 6061 or CI)

EDA 6262 PLANNING EDUCATIONAL FACILITIES (3) Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools. (PR: GS, EDA 6061, or CI)

EDA 6503 THE PRINCIPALSHIP (3) Organization and administration of the school. Emphasis on the competencies necessary for leadership and management by the principal as the administrator and instructional leader. (PR: EDA 6061)

EDA 6910 DIRECTED RESEARCH (1-19) S/U. (PR: GS or ML, EDA 6061)

EDA 6931 CASE STUDIES IN SCHOOL ADMINISTRATION (3) Helps prospective administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. Develops skill in decision making. (PR: GS, EDA 6061 or CI)
EDA 6945 ADMINISTRATION PRACTICUM (3-8) Field experiences in school systems for identifying and analyzing educational problems and their solutions. Application of concepts developed in the student's program. (PR: GS, EDA 6061 and completion of a significant amount of the student's program)


EDA 7222 ADMINISTRATION OF SCHOOL PERSONNEL POLICIES AND PRACTICES (3) Administration of school personnel policies and practices relating to professional staff, supporting staff, and students. (PR: GS, EDA 6061 or CI)

EDA 7233 LEGAL DIMENSIONS OF SCHOOL ADMINISTRATION (3) Historical perspective in law and education with in-depth reviews of case law showing the evolution of courts as educational policy makers. (PR: GS, EDA 6232, CI)

EDA 7247 ADVANCED SCHOOL FINANCE (3) Advanced treatment of school finance. Development, implementation, and evaluation of financial resource and allocation systems. Emphasis is on intradistrict allocation. (PR: GS, EDA 6242 or CI)

EDA 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admitted to Candidacy)

Curriculum and Instruction

EDE 6205 SCHOOL CURRICULUM: ELEMENTARY (3) Organization, curriculum, and instruction of the elementary school with emphasis on the nature of the students served. Open to all education graduate students. (PR: EDG 4620, EDG 6627)

EDG 6285 SCHOOL CURRICULUM IMPROVEMENT (3) Open only to teachers in service. Complete faculty participation required. (PR: Workshop for the improvement of the curriculum of an elementary or secondary school, CC)

EDG 6627 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (3) Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels. Open to all graduate students. (PR: EDG 4620)

EDG 6693 PROBLEMS IN CURRICULUM AND INSTRUCTION: ELEMENTARY (1-3) For teachers, supervisors, and administrators. Curricular and instructional problems of the elementary school. Common problems of special interest to the participants. Normally, for certification requirements only. (PR: EDG 4620, EDG 6627)

EDG 6694 PROBLEMS IN CURRICULUM AND INSTRUCTION: MIDDLE SCHOOL (1-3) For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only. (PR: EDG 4620, EDG 6627)

EDG 6695 PROBLEMS IN CURRICULUM INSTRUCTION: SECONDARY (1-3) For teachers, supervisors, and administrators. Curricular and instructional problems of the secondary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only. (PR: EDG 4620, EDG 6627)
EDG 7667 ANALYSIS OF CURRICULUM AND INSTRUCTION (3) Various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry. (PR: EDG 6627)

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (3) Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues. (PR: EDG 6627)

EDM 6235 SCHOOL CURRICULUM: MIDDLE (3) Examines the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the students served. Open to all education graduate students. (PR: EDG 4620, EDG 6627)

ESE 6215 SCHOOL CURRICULUM: SECONDARY (3) Examines the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the students served. Open to all education graduate students. (PR: EDG 4620, EDG 6627)

Higher Education/Community College

EDH 6061 THE COMMUNITY COLLEGE IN AMERICAN HIGHER EDUCATION (3) Philosophical and cultural bases for definition of its role and contemporary issues, such as control, financing, and curricular patterns. Emphasis on the place and problems of the community/junior college.

EDH 6938 SEMINAR IN COLLEGE TEACHING (3) Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom, and responsibility for learning.

EDH 7225 CURRICULUM DEVELOPMENT IN HIGHER EDUCATION (3) Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design. (PR: GS or CI)

EDH 7505 HIGHER EDUCATION FINANCE (3) Emphasis on financial policies, planning, and budgeting; allocation; financial analysis and management, patterns of expenditure, sources of income. Relationships between educational objectives and resource allocations. (PR: GS or CI)

EDH 7635 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION (3) Examines the concepts about higher education organizations and administration, the behaviors of those organizations and administrators, and the relationships between concept and practice. (PR: GS or CI)

EDH 7930 HIGHER EDUCATION SEMINAR (1-3) Topics of general and special concern in higher education, restricted to advanced graduate students. Rpt. up to 8 hours.

EDH 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admitted to Candidacy)
Supervision

EDS 6050 PRINCIPLES AND PRACTICES OF EDUCATIONAL SUPERVISION (3)
Role definitions of supervision, analysis of role conflict, needs assessments, supervising the planning of instruction, and observing the delivery of instruction. (PR: GS)

EDS 6131 CLINICAL SUPERVISION (3) Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance. (PR: GS, EDS 6050)

EDS 6239 PROBLEMS IN SUPERVISION (3) Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies. (PR: GS, EDS 6050 or CI)

EDS 7130 TEACHER EVALUATION: PROCESS AND INSTRUMENTS (3) Examines procedures for establishing content validity, reliability, norms, and predictive validity of teacher evaluation systems. Examines the psychometric qualities of selected instruments. (PR: EDA 6061, EDF 6432, CI)

General

EDG 6906 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U.

EDG 6931 SELECTED TOPICS IN EDUCATION (1-4) Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic. (PR: GS and CI)

EDG 6947 INTERNSHIP (1-9) Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate. S/U (PR: CI)

EDG 7910 DIRECTED RESEARCH (1-19 Var.) S/U

EDG 7931 SELECTED TOPICS (1-4) Selected topics in advanced Education. Rpt. up to 12 hours. (PR: CC)

EDG 7937 GRADUATE SEMINAR (1-4) Seminar in advanced Education. Rpt. up to 12 hours. (PR: CC)

VOCATIONAL EDUCATION

Program Coordinators:
  Business/Office Education (M.A.)  Janet Scaglione
  Distributive/Marketing Education (M.A.)  Janet Scaglione
  Industrial/Technical Education (M.A.)  William Blank
  Vocational Education (Ed.S., Ed.D., Ph.D.)  William Blank
Degrees:  M.A. in Business and Office Education
M.A. in Distributive and Marketing Education
M.A. in Industrial-Technical Education
Ed.S. in Curriculum and Instruction with an Emphasis in Vocational Education
Ed.D. in Educational Program Development with an Emphasis in Vocational Education
Ph.D. in Curriculum and Instruction with an Emphasis in Vocational Education

M.A. in Business and Office Education (ABE)

Additional Admission Requirements
In addition to University and College requirements, applicants must:
1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the program faculty

Program Requirements
A minimum of 34 semester hours is required for the master’s degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master’s degree program. All three plans are available.

Plan I - A program of study designed for those with a bachelor’s degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas. The program requires 34 hours minimum, selected in consultation with an advisor.

Program of Study
Process Core
   EDF 6432   EDF 6211 or EDF 6215
   EDF 6481   EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization (EVT 6661) 3 hours
Specialization in Business and Office Education 16 hours minimum
Elective 3 hours

Comprehensive Examination
Thesis: Thesis option is available

Plan II - A program of study designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the M.A. degree.

Program of Study
Process Core
   EDF 6432   EDF 6481   EDG 4620
   EDF 6211 or EDF 6215
   EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization (EVT 6661) 3 hours
plus undergraduate prerequisites as necessary.
Specialization
Internship
Planned observation and teaching, supervised by a member of the University faculty and a school staff member. In-service teachers are required to complete this assignment over two semesters.
Before entering the internship, students should have completed the process core requirement and two-thirds of the graduate requirements in the area of specialization or an equivalency (using undergraduate hours taken in the field of specialization to complete the two-thirds requirement).

Comprehensive Examination

Plan III - A program for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.
Program of Study
Process Core
EDF 6432   EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization (EVT 6661) 3 hours
plus undergraduate prerequisites as necessary.
Specialization
Comprehensive Examination

M.A. in Distributive and Marketing Education (ADE)

Additional Admission Requirements
In addition to the University and College requirements, applicants must:
1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the department chairperson/school director.

Program Requirements
Plan I - A program of study designed for those with a bachelor’s degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas.

Program of Study
Process Core
EDF 6432   EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Current Trends course in Teaching Specialization (EVT 6661) 3 hours
Specialization
Major Emphasis
In Distributive and Marketing Education or related areas of Adult and Vocational Education selected in consultation with an advisor and depending upon the individual’s background and experience.
Electives
In a related area, such as Business Administration, Administration, Supervision, Counselor Education, Special Education
Comprehensive Examination

Plan III - A program for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.

Program of Study
Process Core
EDF 6432 or EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization (EVT 6661) plus undergraduate prerequisites as necessary.
Specialization
Comprehensive Examination

M.A. in Industrial-Technical Education (AIT)

Additional Admission Requirements
In addition to the University and College requirements, students must:
1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the department chairperson/school director.
5. Have met the work experience and professional preparation requirements for certification in Industrial, Technical, Health Occupations, or Technology Education.

Program Requirements
Plan I - A program of study designed for those with a bachelor's degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas. The program is developed in consultation with an advisor

Program of Study
Selected in consultation with an advisor
Process Core
EDF 6432 or EDF 6211 or EDF 6215
EDF 6481 or EDF 6517 or EDF 6544 or EDF 6606
Current Trends in Industrial/Technical Education (EVT 6661) Specialization
Electives
Comprehensive Examination

36 hours minimum
6 hours
3 hours
18 hours
9 hours
Plan II - Available for non-certified students. Designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the M.A. degree.

Program of Study

Process Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Required Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6432</td>
<td>15 hours</td>
</tr>
<tr>
<td>EDF 6211</td>
<td>or EDF 6215</td>
</tr>
<tr>
<td>EDF 6517</td>
<td>or EDF 6544 or EDF 6606</td>
</tr>
</tbody>
</table>

Current Trends Course in Teaching Specialization (EVT 6661) plus undergraduate prerequisites as necessary.

Specialization

18 hours minimum

Internship

Planned observation and teaching, supervised by a member of the University faculty and a school staff member. In-service teachers are required to complete this assignment over two semesters. Before entering the internship, students should have completed the process core requirement and two-thirds of the graduate requirements in the area of specialization or an equivalency (using undergraduate hours taken in the field of specialization to complete the two-thirds requirement).

Comprehensive Examination

Plan III - Available for non-certified students. A program for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.

Program of Study

Process Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Required Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6432</td>
<td>12 hours</td>
</tr>
<tr>
<td>EDF 6211</td>
<td>or EDF 6215</td>
</tr>
<tr>
<td>EDF 6517</td>
<td>or EDF 6544 or EDF 6606</td>
</tr>
</tbody>
</table>

Current Trends Course in Teaching Specialization plus undergraduate prerequisites as necessary.

Specialization

18 hours minimum

Comprehensive Examination

Ed.S. in Curriculum and Instruction

with an Emphasis in Vocational Education (SVO)

Prepares practitioners and teachers for the broad field of Vocational & Technical Education; includes public and proprietary schools, and non-school settings such as agencies, institutions and business and industry.

Additional Admission Requirements

In addition to the University and College requirements, applicants must:

1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Students may be required to take specified undergraduate course(s) if they do not have the necessary prerequisites for the graduate level course/program.
4. Obtain favorable recommendation of the program coordinator.
5. Have previous degree or relevant experience in vocational, technical, career education or closely related field.

**Program Requirements**
The Ed.S. degree consists of a minimum of 36 hours (includes 9 hours for the specialist thesis/project) beyond the master's degree and is flexible in its requirements. Each student's program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

**Program of Study**
- Specialization
- Electives
- Thesis/Project
- Comprehensive Examination

* (Thesis/Project - Refer to College listing for information.)

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**Ed.D. in Educational Program Development with an Emphasis in Vocational Education (EVO)**

Prepares leaders for a variety of school and non-school settings such as public schools, technical institutes, community colleges, the military, agencies, institutions, corporate training centers and others. The Ed.D. may be pursued while maintaining full-time professional employment.

**Additional Admission Requirements**
In addition to the University and College requirements, applicants must:
1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Hold a previous degree and relevant experience in vocational, technical, career education or closely related field.
4. Interview with the department doctoral committee.

**Program Requirements**
The program requires a minimum of 83 hours beyond the master's degree.

**Program of Study**
- Specialization in Vocational Education 27 hours
- Curriculum and Instruction 6 hours
- Statistics/Measurement/Research Design 24 hours minimum
- Psychological and Social Foundations 11-12 hours minimum
- Computer Applications 3 hours
- Dissertation 24 hours

**Dissertation, Residency, and Doctoral Qualifying Examination.**
See section with College requirements.
Ph.D. in Curriculum and Instruction
with an Emphasis in Vocational Education (DVO)

Prepares leaders, researchers, university faculty and related personnel to serve in the broad field of Vocational-Technical Education.

Additional Admission Requirements
In addition to the University and College requirements, applicants must:
1. Meet the college-specified minimum GRE and GPA requirements
2. Satisfy any additional academic requirements of the program of specialization.
3. Hold a previous degree and relevant experience in vocational, technical, career education or closely related field.
4. Interview with the department doctoral committee.

Program Requirements
The program requires a minimum of 83 hours beyond the master’s degree.

Program of Study
Specialization in Vocational Education 21 hours minimum
Curriculum and Instruction 3 hours
Cognate 12 hours
Statistics/Measurement/Research Design 12 hours
Psychological and Social Foundations 8-9 hours
Dissertation (EVT 7980) 24 hours

Dissertation, Residency, and Doctoral Qualifying Examination.
See section with College requirements.

Course Descriptions

Business and Office Education

BTE 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION (3) Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

BTE 6944 PRACTICUM: BUSINESS EDUCATION (3-6) A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

Industrial/Technical/Vocational

EIV 5315 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING (3) Organization, coordination, and budgeting of cooperative and special programs. (PR: CI)

EVT 5369 PREPARATION AND DEVELOPMENT FOR TEACHING (4) The development and use of selected instructional materials, educational media, trainers, simulators, and similar instructional resources.

EVT 5664 SCHOOL COMMUNITY DEVELOPMENT (4) Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.
EVT 6264 ADMINISTRATION OF LOCAL PROGRAMS: VOCATIONAL (4)
Organization, personnel selection and assignment, and establishment of policies and procedures for local vocational programs within federal, state and local requirements.

EVT 6265 SUPERVISION OF LOCAL PROGRAMS: VOCATIONAL EDUCATION (3)
A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.

EVT 6500 INDIVIDUALIZED INSTRUCTION (3) Emphasis given to individualized instruction to include the special needs student, the slow learner, and the more capable student.

EVT 6504 PLACEMENT OF SEVERELY HANDICAPPED PEOPLE (3) A study of the purpose, methods, processes, and procedures used to plan, implement, and operate a Vocational Rehabilitation Cooperative School Counseling Program.

EVT 6661 CURRENT TRENDS (3) Historical information, issues, current trends, new dimensions, and problems in adult and vocational education and related areas.

EVT 6769 METHODS, PROCEDURES, AND PROCESSES OF VOCATIONAL EVALUATION (3) A study of the purposes, methods, processes and procedures used to plan, implement, and operate a vocational evaluation program.

EVT 6926 STAFF DEVELOPMENT (1-5) Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.

EVT 6930 SEMINAR (4) Focuses on special topics, interaction with visiting scholars, recent research and major initiatives within the profession.

EVT 6948 PRACTICUM: INDUSTRIAL-TECHNICAL EDUCATION (3-6) A problem-centered field study in the local community, school, government, office, social agency, business, or industry. (PR: EDF 6432 or EDF 6481 or CI)

EVT 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U (Ma/EdS Candidates only)

EVT 7066 FOUNDATIONS AND PHILOSOPHY OF VOCATIONAL, TECHNICAL AND ADULT EDUCATION (3) Historical development and contemporary philosophies, cultural bases and practices of Vocational, Technical, and Adult Education. (PR: Preliminary admission to the advanced graduate program and/or CI)

EVT 7155 CAREER DEVELOPMENT IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (3) Development of a career model designed to facilitate career development of students and articulate vocational education and career guidance. (PR: Preliminary admission to the advanced Graduate Program and CI)

EVT 7168 INSTRUCTIONAL DEVELOPMENT FOR VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (4) The systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems. (PR: GS or CI)
EVT 7267 VOCATIONAL AND ADULT EDUCATION PROGRAM PLANNING AND IMPLEMENTATION (3) Knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, vocational and technical education institutions or programs. (PR: GS or CI)

EVT 7761 RESEARCH SEMINAR IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION (3) Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus. Available to majors only. Rpt. up to 6 hours. (PR: Completion of program requirements in urcement and research or CI)

EVT 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admitted to Candidacy)
School of Physical Education, Wellness and Sports Studies

4202 E. Fowler Avenue, PED 214
Tampa, FL 33620
(813) 974-3443
(located PED214)
WebAddress: http://www.coedu.usf.edu

Director: Louis Bowers


Degrees Offered: M.A.

Programs: Professional Physical Education

Specializations: Physical Education, K-8
Physical Education, 6-12
Adapted Physical Education

M.A. in Physical Education (APH)

Plan I The master’s degree program in Physical Education is designed to enhance the professional skills of physical education teachers with a focus on the science of human movement and the teaching-learning process. Students may concentrate their program of study in areas of Elementary or Secondary Physical Education or Physical Education for students with disabilities.

Additional Admission Requirements
In addition to University and College requirements, applicants must have
1. An undergraduate degree in Physical Education
2. Recommendation from the Departmental Admissions Committee.

Program Requirements
Program of Study

| Process Core | 30 hours minimum |
| EDF 6432 | |
| Current Trends in Physical Education | |
| Specialization | |
| PET 6535, Professional Assessment, is required, and it is recommended that students enroll in this course during their first semester of study. Typically students will enroll in courses from the following: |
| PET 6535C | PET 6205 | PET 6645 |
| PET 6695C | PET 6425 | PET 6910 |
| PET 6496 | PET 6346 |
| PET 6906 | |
| Comprehensive Exam | |
A Comprehensive final oral examination is required during the semester in which the student completes 30 hours of coursework.

**Plan II** This master's degree program is designed to provide K-8 or 6-12 certification in Physical Education for students with a non-education baccalaureate degree in a related field and who wish to meet initial teacher certification requirements as part of their master's degree program.

**Program Requirements**

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>50 hours</th>
</tr>
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<tbody>
<tr>
<td>Process Core</td>
<td>17 hours</td>
</tr>
<tr>
<td>EDF 6432</td>
<td></td>
</tr>
<tr>
<td>EDF 6211</td>
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<tr>
<td>EDF 6481</td>
<td></td>
</tr>
<tr>
<td>EDF 6606</td>
<td></td>
</tr>
<tr>
<td>PET 6496</td>
<td></td>
</tr>
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</table>

Current Trends in Physical Education

<table>
<thead>
<tr>
<th>Specialization</th>
<th>3 hours</th>
</tr>
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<tbody>
<tr>
<td>PET 6535, Professional Assessment, is required, and it is recommended that students enroll in this course during their first semester of study. Typically students will enroll in courses from the following:</td>
<td></td>
</tr>
<tr>
<td>PET 6535C</td>
<td>PET 6025</td>
</tr>
<tr>
<td>PET 6695C</td>
<td>PET 6425</td>
</tr>
<tr>
<td>PET 6496</td>
<td>EDF 6432</td>
</tr>
<tr>
<td>PET 6906</td>
<td>PET 6346</td>
</tr>
</tbody>
</table>

Internship (EDG 6947)

Planned observation and teaching supervised by a member of the University faculty and a school staff member.

**Comprehensive Exam**

**Course Descriptions:**

**PET 6205 SOCIO-PSYCHOLOGICAL ASPECTS OF HUMAN MOVEMENT** (3)
Psychological and sociological implications of movement to historical and contemporary man. Emphasis on concept, role of movement in society, and values and attitudes held toward movement.

**PET 6346 BIO-KINETICS OF HUMAN MOVEMENT** (3) Integration of basic kinesiological foundations applied to teaching physical education. Specific topics include: physical growth and neuro-muscular control, laws of physics applied to human movement and the effects of exercise on the muscular and skeletal systems.

**PET 6396 SPECIALIZED STUDY IN BIO-KINETICS OF HUMAN MOVEMENT** (1-4)
Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development. Rpt.

**PET 6419 CLINICAL SUPERVISION IN PHYSICAL EDUCATION** (3) Provides specialized knowledge and skills for effective supervision of interns in physical education including observation and feedback techniques and communication skills. (PR: Florida certificate in physical education, 3 years teaching experience in physical education, principal’s recommendation.)
PET 6425 CURRICULUM AND INSTRUCTIONAL PROCESS IN PHYSICAL EDUCATION (3) Will provide in-depth study of the structure of subject matter, theoretical curriculum models, styles of teaching, and investigation of the nature of the learner as these relate to teaching physical education. Fieldwork may be required.

PET 6496 SPECIALIZED STUDY IN CURRICULUM AND INSTRUCTIONAL PROCESS IN PHYSICAL EDUCATION (1-4) Will provide in-depth study in specific areas related to the teaching-learning process of physical education. Rpt.

PET 6535C PROFESSIONAL ASSESSMENT (3) Personal assessment of current trends and knowledge in the professional literature. Development of competencies in research review, written and oral communication skills.

PET 6645 PHYSICAL EDUCATION FOR THE HANDICAPPED (4) The course is concerned with the motor performance and physical fitness of mentally and motorically handicapped individuals. Study includes psycho-educational characteristics; planning, conducting, and evaluating individualized programs of physical education; and review of relevant literature. Fieldwork may be required.

PET 6695C (FORMERLY PET 6646) PHYSICAL EDUCATION FOR THE HANDICAPPED PRACTICUM (2-4) School or treatment center-based experience providing evaluation and instructional services. Seminars are conducted to discuss professional literature, teaching strategies, and curriculum organization and evaluation. Rpt. (PR: PET 6645) S/U

PET 6906 INDEPENDENT STUDY: PROFESSIONAL PHYSICAL EDUCATION (1-6) Independent study. Students must have a contract with an instructor. Rpt. S/U.

PET 6910L RESEARCH PROJECT IN PHYSICAL EDUCATION (1-4) In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of student. Rpt. S/U
Psychological and Social Foundations of Education

4202 E. Fowler Avenue, EDU 162
Tampa, Fl 33620
(813) 974-9471
(located EDU 380)
WebAddress: http://www.coedu.usf.edu

Chairperson: Michael Curtis


*Professor Emeritus

Degrees Offered: M.A., M.Ed., Ed.S., Ph.D.

Programs: College Student Affairs
Counselor Education
School Psychology

This department offers programs in the areas of College Student Affairs, Counselor Education and School Psychology. It also provides service courses in educational psychology and social foundations of education for all degree programs in the College. These courses, as well as some courses offered in other foundational departments, are typically referred to as the "Process Core."

College Student Affairs

Program Coordinator: Ellen Kimmel

Degrees Offered: M.Ed. in Curriculum and Instruction with an emphasis in College Student Affairs

M.Ed. in Curriculum and Instruction with an emphasis in College Student Affairs (CSA)

This program prepares students for professional positions in various functional areas of college student affairs work.
Additional Admission Requirements
In addition to University requirements, applicants must:
1. Have experience relevant to the program’s goals
2. Personal statement of professional goals
3. Three letters of recommendation
4. Interview with program faculty and Student Affairs staff (exceptions to the interview requirements may be arranged for out-of-state applicants).

Program Requirements
Program of Study
Process Core
EDF 6407 or EDF 6481 or EDF 7408
EDF 5136 and EDF 6833
Specialization
28 hours
Internship
6 hours
Electives
3 hours
Comprehensive Examination
48 hours

Course Descriptions:

EDF 6935 WELLNESS PROGRAMMING SEMINAR (2) This course familiarizes students with the array of extant programs to facilitate wellness and prevent problems that often affect college students. Through review and critique of such programs, participants will be able to design and administer wellness programs in their professional roles. (PR: CI)

SDS 6042 INTRODUCTION OF STUDENT AFFAIRS (4) Provides students with knowledge of the history, philosophy, organization and structure of Student Affairs, Student Affairs functions and professional competencies, and legal and ethical issues. (PR: GS)

SDS 6624 ECOLOGY OF CAMPUS LIFE (4) Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students. (PR: GS)

Counselor Education

Program Coordinator: M. Sue Street

Degrees Offered: M.A. in Counselor Education
Ed.S. in Counselor Education (Currently not being offered)
Ph.D. in Counselor Education (Currently not being offered)

M.A. in Counselor Education (AGC)
The Master of Arts (M.A.) degree in Counselor Education prepares students to become professional counselors, supervisors, educators and/or researchers in a variety of settings. Two program plans are available in School Counseling and one in Community Counseling.
Additional Admission Requirements
In addition to the University and College requirements, the program requires the following:
The counseling profession requires that individuals possess a range of interpersonal skills as well as academic and technical competencies, and the admission process attempts to evaluate the applicant's potential for success in all these areas. The program screening and admissions process are rigorous and highly competitive, but flexible.

A completed application will include transcripts from all institutions attended; GRE verbal and quantitative scores; three letters of recommendation; and a statement of professional goals that may include a vitae. Qualified applicants are required to interview with the Counselor Education faculty and to demonstrate appropriate interpersonal skills and professional demeanor. Admission to the program is based on a holistic assessment of the above submitted information. Strong consideration is also given to previous professional work and volunteer experience, as well as motivation to become a professional counselor and knowledge of what that entails. Applicants are selected based on their potential to benefit from the program and their potential to contribute to both the program and the profession. Students may apply upon confirmed conferral of their baccalaureate degree; information may be obtained by request from the program.

Applicants are admitted for the Semester I (Fall) and Semester II (Spring) terms. All admission requirements must be completed by February 15 for Semester I and by September 15 for Semester II.

There is no full-time residency requirement. A student who is employed on a full-time basis is limited to 9 hours coursework per semester.

Plan I--School Counseling
This plan is for students holding a regular Florida teaching certificate.

Program of Study

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<tr>
<th>Process Core</th>
<th>60 hours minimum</th>
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<tbody>
<tr>
<td>EDF 6354</td>
<td>EDF 6481</td>
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<tr>
<td>Current Trends in Counseling Profession (MHS 6006)</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specialization</th>
<th>45 hours</th>
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</thead>
</table>

All students are required to take the following:

<table>
<thead>
<tr>
<th>MHS 6070</th>
<th>MHS 6601</th>
<th>MHS 6200</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6340</td>
<td>MHS 6420</td>
<td>MHS 6400</td>
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<td>MHS 6450</td>
<td>MHS 6480</td>
<td>MHS 6780</td>
</tr>
<tr>
<td>MHS 6509</td>
<td>MHS 6800</td>
<td>SDS 6820</td>
</tr>
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</table>

Comprehensive Examination

Plan II--School Counseling
The Plan II program is designed for students with no prior Florida teaching certification, but who wish to obtain certification as part of their program.

Program of Study

<table>
<thead>
<tr>
<th>Process Core</th>
<th>69-70 hours minimum</th>
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<tr>
<td>EDF 6354</td>
<td>EDF 6481</td>
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<tr>
<td>EDF 6432</td>
<td>EDG 4620</td>
</tr>
<tr>
<td>EDF 6517 or EDF 6544 or EDF 6606</td>
<td>20-21 hours</td>
</tr>
</tbody>
</table>

Current Trends in Counseling Profession (MHS 6006) | 4 hours
Specialization

All students are required to take the following:

MHS 6070  MHS 6601  MHS 6200
MHS 6340  MHS 6420  MHS 6400
MHS 6450  MHS 6480  MHS 6780
MHS 6509  MHS 6800  SDS 6820

Comprehensive Examination

Plan III--Community Counseling

This Plan III program is for students who prefer to work in community-based counseling positions rather than elementary or secondary schools.

Special Program Admissions Requirements (Same as Plan I program)
General Program Requirements (Same as Plan I program)

Program of Study

<table>
<thead>
<tr>
<th>Process Core</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6481</td>
<td>EDF 6354</td>
</tr>
</tbody>
</table>
| EDF 6217    | MHS 6021
|             | MHS 6070       |
|             | MHS 6200       |
|             | MHS 6340       |
|             | MHS 6400       |
|             | MHS 6420       |
|             | MHS 6450       |
|             | MHS 6480       |
|             | MHS 6780       |
|             | MHS 6885       |

45 hours

Comprehensive Examination

Ed.S. in Curriculum and Instruction with an Emphasis in Counselor Education (SGC)
Program not currently being offered.

Ph.D. in Curriculum and Instruction with an Emphasis in Counselor Education (DGC)
Program not currently being offered.

Course Descriptions:

MHS 6006 PRINCIPLES OF THE COUNSELING PROFESSION (4) Required first course for majors in counselor education; an elective for students in other programs. Counseling as a profession; its philosophical framework; its scope and functions; its organization and administration in various settings. (PR: CC)

MHS 6021 COUNSELING IN COMMUNITY SETTINGS (3) Study of community counseling within the context of health and human service systems including treatment modalities, administration and fiscal considerations.

MHS 6070 STUDY OF MENTAL DISORDERS FOR COUNSELORS (3) A study of mental disorders emphasizing recognition of behavioral symptoms so that counselors may apply appropriate helping approaches or refer clients for further diagnosis and treatment. Intended primarily for counselors working with adult clients. (PR: MHS 6006 or CI)
MHS 6200 APPRAISAL PROCEDURES IN COUNSELING (4) A study of test and non-test techniques of appraisal with emphasis on the use of standardized test data in counseling programs and the use of the individual case study approach. (PR: MHS 6006)

MHS 6340 CAREER DEVELOPMENT (4) Study of the information service in guidance as it relates to life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development. (PR: MHS 6006)

MHS 6400 COUNSELING THEORIES AND PRACTICES (4) This course is the study of the nature of the counseling process with emphasis on major theoretical approaches and related personality theories, development of basic counseling skills and supervised practice. (PR: EDF 6354 and MHS 6006)

MHS 6420 COUNSELING SPECIAL POPULATION GROUPS (3) Application of counseling theory to work with clients from special population groups, e.g., exceptional students, dropouts, ethnic minorities, women re-entering the labor force, and older persons. Each student will select a specific population group for supervised research. (PR: MHS 6400)

MHS 6421 COUNSELING CHILDREN (4) Nature of the counseling process with an emphasis on major theoretical approaches, supervised practice, and application. Focuses on work with elementary age children and consultations with parents and teachers. (PR: EDF 6354 and MHS 6006)

MHS 6430 DYNAMICS OF MARRIAGE & FAMILY SYSTEMS THEORY (4) The major theoretical approaches to systems therapy including strategic, structural, contextual, object-relations and Adlerian models are presented. Also included is the investigation of transgenerational problems and symbolic structures in families as they relate to General Systems Theory. (PR: MHS 6400, CC)

MHS 6431 FAMILY THERAPY & TECHNIQUES (4) This course concentrates on the theory and application of intervention techniques to family systems. Structured experiences in interviewing, assessing, making therapeutic interventions, observing family interaction, and developing basic aspects in treating families. (PR: MHS 6430, CC)

MHS 6432 MARRIAGE THERAPY (4) A study of the marriage relationship will be emphasized. Issues of premarital, marital, divorce, intimacy, and conflict management are discussed. Through course activities students are introduced to a wide variety of therapy procedures and intervention strategies. (PR: MHS 6430, CC)

MHS 6450 COUNSELING SUBSTANCE ABUSE IN SCHOOL AND COMMUNITY (4) This course prepares counselors to work with substance abuse issues, including prevention, in schools and community out-patient settings. Includes counseling and program approaches found to be effective in addressing substance abuse.

MHS 6480 HUMAN SEXUALITY ISSUES FOR COUNSELORS (4) Emphases include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to sexuality counseling. (PR: MHS 6400)
MHS 6509 GROUP COUNSELING THEORIES AND PRACTICES (4) An experiential study of group structure, group dynamics, methodology, and leadership models applicable to counseling clients in school and community settings includes skill building through supervised practice. (PR: MHS 6400)

MHS 6601 CONSULTATION FOR THE COUNSELING PROFESSION (3) A study of consultation theory and practice as used by counselors working in schools and mental health facilities, particularly with educators, other professionals, and parents, individually and in groups. Non-majors need instructor's approval. (PR: MHS 6400 and MHS 6006)

MHS 6780 LEGAL AND ETHICAL ISSUES IN THE COUNSELING PROFESSION (3) A study of legal, ethical and related issues affecting the role and responsibilities of counselors in schools and mental health facilities. (PR: MHS 6006)

MHS 6800 PRACTICUM IN COUNSELING ADOLESCENTS AND ADULTS (4) Supervised counseling for integration and application of knowledge and skills gained in didactic study. S/U (PR: MHS 6400)

MHS 6885 INTERNSHIP IN COMMUNITY AGENCY COUNSELING (3-6) Field experience involving one semester of full-time participation or two semesters of part-time participation in the counseling and related activities of a public or private agency providing mental health services to the community. (PR: All required MHS courses.)

MHS 6905 INDIVIDUAL STUDY (1-4) Independent study, research, and experience relating to guidance and pupil personnel services under the supervision of a member of the Counselor Education faculty. Rpt. up to 4 hours. (PR: CI)

MHS 6930 SEMINAR IN GUIDANCE (1-2) Significant issues in the field of guidance; topics for discussion will vary according to needs and interests of students. Rpt. up to 4 hours. S/U. (PR or CR: MHS 6006, CI)

MHS 6970 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U (MA/EdS Candidates only)

MHS 7401 ADVANCED COUNSELING: THEORIES AND PRACTICUM (5) Advanced study of major counseling theories and their application in therapeutic work with individual clients and with groups in a variety of settings. Supervised practice in individual and group counseling with emphasis on integration of theory and practice. (PR: CC)

MHS 7600 CONSULTATION AND SUPERVISION: THEORIES AND PRACTICUM (5) Theory and methodology of consultation; the role of the counseling professional as consultant and as a supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consulting and supervision under faculty direction. (PR: CC)

MHS 7840 ADVANCED INTERNSHIP IN COUNSELOR EDUCATION (2-8) Supervised field experiences in an approved agency, educational institution, or industrial setting: counseling, consulting, supervision, applied research, administration, and evaluation of counseling/guidance services. Rpt. up to 8 hours. S/U. (PR: CC)

MHS 7930 ADVANCED SEMINAR IN COUNSELOR EDUCATION (2) Seminar for advanced graduate students in counselor education. Issues and trends in Guidance and Counseling will be studied and discussed. Rpt. up to 2 hours. S/U. (PR: CI)
MHS 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

SDS 6050 COMPARATIVE GUIDANCE AND COUNSELING (3) Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America. (PR: CI)

SDS 6501 GROUP THEORY AND PRACTICUM: CHILDREN (4) Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling and guidance in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children. S/U (PR: SDS 6411)

SDS 6801 PRACTICUM IN COUNSELING CHILDREN (4) Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is on working with elementary age children, parent and teachers. S/U. (PR: CC)

SDS 6820 INTERNSHIP IN SCHOOL GUIDANCE (3-6) Field experience involving one semester of full-time participation in all guidance-related activities in an elementary or secondary school; classroom guidance, individual and group counseling, assessment/evaluation, staffing, record keeping, etc. S/U. (PR: CC)

School Psychology

Program Coordinator: George Batsche

Degrees Offered: Ed.S. in School Psychology
Ph.D. in School Psychology

The School Psychology Program offers two degrees that qualify students for the professional practice of school psychology. The Educational Specialist (Ed.S.) degree consists of approximately 92 graduate semester hours beyond the bachelor's degree, and includes two years of practica experiences and then a full-year, 1,500 clock hour internship and a thesis or Research Project. The Doctor of Philosophy (Ph.D.) degree consists of approximately 64 semester hours beyond the Ed.S. degree and includes advanced leadership coursework and practica experiences, specialization and area of emphasis courses in school psychology, a 2,000 clock hour internship, and the dissertation. A Master of Arts (M.A.) degree is earned by most students during the first year of their Ed.S. program. However, the M.A. is not considered a terminal degree and is not sufficient for state certification in school psychology.

The programs in School Psychology at the University of South Florida are offered through the College of Education's Department of Psychological and Social Foundations in cooperation with the College of Arts and Sciences' Department of Psychology. The programs have been designed specifically for training in school psychology, and they have been developed to meet all relevant national accreditation standards (most notably, the National Council for the Accreditation of Teacher Education—NCATE, and the American Psychological Association—APA). The Ed.S. and Ph.D. programs are fully approved by the National Association of School Psychologists and the Florida Department of Education. Students who complete the School Psychology Training Program at USF automatically meet the academic and field training requirements for certification as a Nationally Certified School Psychologist (N.C.S.P).
The programs in School Psychology are committed to training professionals who have expertise in the depth and diversity of both psychology and education. This training is accomplished within a scientist-practitioner model which emphasizes comprehensive school psychological services using a social and cognitive behavioral learning theory orientation that recognizes the impact of children's individual differences and the importance of multicultural awareness and skills. The program also offers professional development opportunities for practitioners in the field.

Ed.S. in School Psychology (SSP)
The Ed.S. program must satisfy College of Education, University, NASP/NCATE, and State Department of Education criteria, the latter in order for the student to be certified as a school psychologist in the State of Florida.

Residency
Currently, the specialist program can be completed in three calendar years. Since the curriculum is carefully sequenced, full-time study, as defined by the Program Advisor or Coordinator, is required of students without prior graduate work. It is assumed that students have time for an assistantship or part-time job up to 20 hours per week. However, it is expected that students who need financial assistance will accept program assistantships, as available, before any other type of aid. When outside employment is a possibility, such employment must be approved by the School Psychology Faculty. In fact, the Program Coordinator must be notified in writing of all gainful employment engaged in by students throughout their studies when that employment exceeds six hours per week.

Program Requirements
The Ed.S. program consists of a minimum of 36 semester hours beyond the master's degree, or 92 hours beyond the Bachelor's degree across a number of theoretical, professional and support areas. All courses are at the graduate level and do not include coursework that is remedial. Credit hours are distributed as follows:

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Specialization Coursework</td>
<td>25-27</td>
</tr>
<tr>
<td>Psychological Foundations</td>
<td>22-24</td>
</tr>
<tr>
<td>Educational Foundations</td>
<td>8</td>
</tr>
<tr>
<td>Assessment</td>
<td>12</td>
</tr>
<tr>
<td>Interventions</td>
<td>12</td>
</tr>
<tr>
<td>Field Practica</td>
<td>4</td>
</tr>
<tr>
<td>Research/Statistics</td>
<td>8</td>
</tr>
<tr>
<td>Internship</td>
<td>12</td>
</tr>
<tr>
<td>Thesis (Project) - - SPS 6971</td>
<td>9</td>
</tr>
</tbody>
</table>

The following outline represents a typical program for a student without prior graduate work. Other courses may be selected to fit background and goals, and equivalent work is acceptable. Minor changes may be made due to routine program development.

Academic/Theoretical Bases

Developmental Psychology

EDF 6938 or EDF 6120 or DEP 6058* 4 hours

Learning and Cognitive Psychology

EDF 6215 and EDF 6217 8 hours

Personality and Abnormal Psychology

SPS 6101 4 hours
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Social Psychology</td>
<td>2-4 hours</td>
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<tr>
<td>EDF 6938 or SOP 6059*</td>
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</tr>
<tr>
<td>Statistics, Measurement, and Professional Research</td>
<td>8 hours</td>
</tr>
<tr>
<td>EDF 6407 and EDF 7410</td>
<td></td>
</tr>
<tr>
<td>Professional School Psychology</td>
<td>37 hours</td>
</tr>
<tr>
<td>SPS 6197, SPS 6198, SPS 6943</td>
<td></td>
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<tr>
<td>SPS 6944, SPS 6936, SPS 6700</td>
<td></td>
</tr>
<tr>
<td>SPS 6701, SPS 6702, SPS 6940</td>
<td></td>
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<tr>
<td>SPS 6941, EDF 6166, SPS 6196</td>
<td></td>
</tr>
<tr>
<td>Social/Multicultural/Organizational Foundations of Education</td>
<td>4 hours</td>
</tr>
<tr>
<td>EDF 6883</td>
<td></td>
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<tr>
<td>Thesis -- SPS 6971</td>
<td>9 hours</td>
</tr>
<tr>
<td>Internship</td>
<td>12 hours</td>
</tr>
<tr>
<td>Electives--Selected courses in the Counselor Education, Special Education, and Reading Education programs and in the Department of Psychology.</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>* Offered in the Department of Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Ph.D. in School Psychology (DSP)**

The Ph.D. program consists of a minimum of 114 credit hours beyond the Master's degree. Students in the Ed.S. program in School Psychology will be allowed to use up to 12 semester hours of USF credit earned during the first year of their Ed.S. program toward the Ph.D. They also may incorporate coursework from the second and third years of their Ed.S. program (assuming it is post-Master's) into the Ph.D. program of studies. Other students who have taken graduate level courses as special students at USF will be allowed to transfer up to 12 semester hours as approved by the Program Faculty. Finally, students from other institutions will be allowed to transfer in 8 graduate semester hours (or three courses) again as approved by the Program Faculty.

In addition to admitting students at the Post-Baccalaureate Level, the USF School Psychology program admits Ph.D. students who have already earned an Ed.S. or the equivalent and are certified as school psychologists and/or who are looking for advanced doctoral study in the field. These advanced students take advanced leadership, specialization, an area of emphasis within the broader school psychology curriculum, and additional practicum experiences, all allowing for more in-depth study of content and issues in our field.

Full-time study is required of most Ph.D. students at least until they complete all coursework and Qualifying Exams and have only the Dissertation to complete. Minimally, this will involve three years of full-time study after the M.A. degree. Full-time study involves a minimum of 9 semester hours of coursework per semester. Residency involves consecutive academic years of full-time study; students are allowed assistantship work or a part-time job up to 20 hours per week during residency. Students working in psychology-related positions outside of the University must have these positions approved in advance to ensure practice within all appropriate ethical guidelines. The Program Coordinator must be notified in writing of all gainful employment engaged in by students throughout their studies when that employment exceeds six hours per week. A part-time Ph.D. option is available for selected students; more information on this option is available from the Program Coordinator.
Admission Philosophy

The primary assumption underlying admission to either the Ed.S. or the Ph.D. program is that every student who is accepted is capable (a) of successfully completing his or her respective program, and (b) of performing competently in the field as a School Psychologist. For this reason, the selection and admissions procedure is quite rigorous. Applicants are selected based on their potential to benefit from the training program and their potential to contribute both to the Program and the field of School Psychology.

Within the admissions process, a culturally diverse student body is actively recruited, and applicants of academic and professional promise are not systematically excluded on the basis of race, ethnic origin, gender, age, religion, lifestyle, sexual orientation, or physical handicap. The admissions process is highly selective, but flexible; all pertinent data submitted for consideration are evaluated as a collective whole. That is, no one piece of information is weighted substantially over another so long as it meets the minimal requirements of the University and College. The evaluation process, however, does involve both academic and interpersonal considerations. The profession of School Psychology requires that the individuals possess positive personal characteristics as well as academic and technical competencies, and the admission process attempts to evaluate both these areas.

Specifically, admission to the program is based on past academic work; GRE verbal and quantitative scores; pertinent work, volunteer, and extracurricular experience; letters of recommendation; and a statement of professional goals that may include a current resume or vita. Students may apply, after conferral or anticipated conferral of their Bachelor’s degree, at either the doctoral or Ed.S. level depending on their professional aspirations. Applicants are encouraged to complete applications by January 1. Most acceptances occur during the early spring. All students are accepted to begin their program in the Fall Semester; no applications are accepted for spring or summer admission.

The application process begins by securing an application and graduate catalog from the USF Office of Graduate Admissions or by calling/contacting the School Psychology Program. Students must submit an application for admission and all test scores directly to the University’s Office of Graduate Admissions. The following Additional Admissions information should be sent directly to the School Psychology Program.

Additional Admission Requirements

In addition to the University and College requirements, applicants must also submit the following to the School Psychology Program:

1. Three letters of recommendation sent directly to the program;
2. A writing sample such as a major research paper, a write-up of a psychological experiment, or a major literature review;
3. A statement of professional goals and a current vita or resume which discusses past activities or experiences relevant to the application.
4. Prospective students are kept abreast of the application’s status. Once complete, the application file is reviewed by faculty members who individually recommend whether or not the candidate should be invited in for a formal interview. During the interview, the applicant will have the opportunity to pose questions to faculty and current students in order to further familiarize himself/herself with the program. After the interview, a decision on the student’s candidacy is made based on his/her record/application and his/her:
   a. career goals and their compatibility with those of the program
   b. potential for successful completion of the program
   c. sensitivity to the needs of diverse children, families, teachers, and systems
   d. interpersonal skills
   e. communication skills, both oral and written.
Note: If geographical constraints prohibit a personal interview, a telephone interview may be conducted by the faculty or a taped interview may be used. Such a decision is at the discretion of the faculty. In addition, the faculty reserves the right to contact all references specified as appropriate by the candidate.

Financial Aid
Normally, all students receive funding through assistantships or paid internships and tuition waivers for the duration of their training. Separate forms, where necessary, are forwarded with each acceptance letter. Fellowships for qualifying students are also available; they have application deadline dates as early as February 1. Applicants for fellowships are encouraged to obtain the appropriate forms from the Office of Financial Aid, or the Dean’s Office in the College of Education. Internships, though not formally considered financial aid, are normally paid; advanced internships may be paid depending on the site.

Program Requirements
Program of Study
The Ed.S. degree curriculum forms a foundation for the Ph.D. The following outline represents a typical program for a student without prior graduate work. Other courses may be selected to fit background and goals, and equivalent work is acceptable. Minor changes may be made due to routine program development.

Academic/Theoretical Bases
Developmental Psychology
EDF 6938 or EDF 6120 or DEP 6058*
Learning and Cognitive Psychology
EDF 6215 and EDF 6217
Personality and Abnormal Psychology
SPS 6101
Social Psychology
EDF 6938 or SOP 6059*
Statistics, Measurement, and Professional Research
EDF 6407 and EDF 7410

Professional School Psychology
SPS 6197 SPS 6198 SPS 6943
SPS 6944 SPS 6936 SPS 6700
SPS 6701 SPS 6702 SPS 6940
SPS 6941 EDF 6166 SPS 6196

Social/Multicultural/Organizational Foundations of Education
EDF 6883
Thesis -- SPS 6971
Internship
Electives--Selected courses in the Counselor Education, Special Education, and Reading Education programs and in the Department of Psychology.
Comprehensive Examination
* Offered in the Department of Psychology

Ph.D. Program additionally includes:
A full-year advanced professional seminar (SPS 7936)
Advanced coursework in Statistical Analysis (EDF 7408, EDF 7484)
Courses in an area of Emphasis (e.g., SPS 7199, SPS 7701)
Advanced Supervision (SPS 7090)
Consultation (SPS 7205)
Behavioral Intervention (SPS 7700)
Advanced psychological foundations course (e.g., EDF 7145)
Advanced practicum and 2,000 clock hour advanced internship
Dissertation.

At this level, emphasis is on research and on training for leadership positions in school psychology.

Dissertation, Residency, and Qualifying Examination
Refer to College listing for information.

Course Descriptions

**SCHOOL PSYCHOLOGY**

**SPS 6101 CHILD AND ADOLESCENT BEHAVIOR DISORDERS** (4) Theoretical and empirical identification and understanding of children and adolescents with behavior disorders. Treatment issues as they relate to school psychological services. (PR: CI)

**SPS 6196 ASSESSMENT OF CHILD AND ADOLESCENT PERSONALITY** (4) Conceptualizations of personality and personality assessment; perspectives of disturbed and disturbing behavior, and personality assessment measures. (PR: CI)

**SPS 6197, 6198 PSYCHOEDUCATIONAL ASSESSMENT I, II** (4,4) Content covers comprehensive psychoeducational assessment in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, referral procedures, interviewing, observations, child and family histories, assessment of educational environments, and synthesis and dissemination of diagnostic data. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters. (PR: Acceptance to graduate program in School Psychology)

**SPS 6700, 6701, 6702 PSYCHOEDUCATIONAL INTERVENTIONS WITH CHILDREN AND ADOLESCENTS I, II, III** (4,4,4) Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required. (PR: Acceptance to School Psychology Graduate Program or CI)

**SPS 6806 DEVELOPMENTAL BASES OF DIVERSE BEHAVIORS** (4) This course deals with some of the major social and educational policy concerns posed by developmental and cultural diversity in our society.
SPS 6936 GRADUATE SEMINAR IN SCHOOL PSYCHOLOGY (1-3) Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques. Rpt. up to 9 hours with different subject matter. (PR: CI)

SPS 6940, 6941 PRACTICUM IN PSYCHOEDUCATIONAL INTERVENTIONS (1-4) Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology. Rpt. S/U. (PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents — I or II, or CI)

SPS 6943, 6944 PRACTICUM IN PSYCHOEDUCATIONAL ASSESSMENT (1-4) Course will provide opportunities to implement skills acquired in assessment courses. Rpt. S/U. (Concurrently with SPS 6197-98 or CI.)

SPS 6947 INTERNSHIP (1-9) Open to school psychology graduate degree candidates only. Involves field-based, supervised experience of 1,500 (minimum) clock hours at the Educational Specialist level and 2,000 (minimum) clock hours at the Doctoral level.

SPS 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U (MA/EdS Candidates only)

SPS 7090 SUPERVISION PROCESSES IN SCHOOL PSYCHOLOGY (4) Theory, skills, and practice of supervision in school psychology. (PR: CI)

SPS 7199 ADVANCED PSYCHOEDUCATIONAL ASSESSMENT (2-4) Advanced topics and techniques in the comprehensive assessment of children and adolescents typically referred for school psychological services. Course may be repeated for credit with different subject matter. (PR: SPS 6197/6198 and SPS 6943/6944, and CI)

SPS 7205 ADVANCED CONSULTATION PROCESSES IN SCHOOL PSYCHOLOGY (2-4) Advanced topics and techniques in consultation processes for advanced school psychologists. May be repeated for credit with different subject matter. (PR: EDF 6166, or CI)

SPS 7700 ADVANCED PSYCHOEDUCATIONAL INTERVENTIONS (2-4) Advanced topics and techniques in psychoeducational interventions for children and adolescents referred for school psychological services. Course may be repeated for credit with different content. (PR: SPS 6700/6701 and SPS 6940/6941, and CI)

SPS 7701 ADVANCED CHILD AND ADOLESCENT PSYCHOTHERAPY (2-4) Covers advanced topics and techniques in child and adolescent psychotherapy relevant to school psychological services. Course may be repeated for credit with different content. (PR: SPS 6702, or CI)

SPS 7936 ADVANCED SEMINAR IN SCHOOL PSYCHOLOGY (1-3) Exploration of current issues and trends in school psychology, as it relates to research and professional practice, and the history and systems of education and psychology. This course may be repeated up to 6 credit hours with different subject matter. (PR: CI).

SPS 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)
PSYCHOLOGICAL FOUNDATIONS

EDF 5136 ADOLESCENCE (4) Educational, intellectual, personality, physical, social, and vocational factors in adolescence and their importance for school personnel.

EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES (3) Principles for programming in several academic subjects.

EDF 6120 CHILD DEVELOPMENT (4) Educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development. (PR: EDF 6211 or CI)

EDF 6165 GROUP PROCESSES FOR EDUCATIONAL PERSONNEL (1-3) Application of group process research to the needs of professional educators and training officers. (PR: CI)

EDF 6166 CONSULTING SKILLS FOR STAFF DEVELOPMENT (1-3) Knowledge and skill training for consulting with organizational clients to solve educational problems and design learning environments or programs. (PR: CI)

EDF 6211 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (3) Selected topics in psychology of human development and learning, related to schools and educational settings.

EDF 6213 BIOLOGICAL BASES FOR LEARNING BEHAVIOR (3) Human biological development and its influence upon learning and behavior. (PR: One course in Educational Psychology)

EDF 6215 LEARNING PRINCIPLES APPLIED TO INSTRUCTION (4) Learning principles and their application to classroom instruction. (PR: CI)

EDF 6217 BEHAVIOR THEORY AND CLASSROOM LEARNING (4) Theory and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work. (PR: EDF 6215 or CI)

EDF 6281 WORKSHOP AND CONFERENCE DESIGN (3) Knowledge and skills to design, conduct and/or administer, and evaluate both workshops and conferences. (PR: CI)

EDF 6288 INSTRUCTIONAL DESIGN I (3) Instructional design models/theories and their systematic application to instructional goals. (PR: EDF 6215 or CI)

EDF 6354 PERSONALITY THEORIES AND HUMAN DEVELOPMENT (4) Survey and analysis of major personality theories with emphasis on psycho-social and cognitive development throughout a person's life span.

EDF 6531 HISTORY OF CHILDHOOD, DISABILITY, AND DEVIANCE (3) Historical development of the idea and experience of modern childhood. Social construction of age categories and age related institutions such as schools. Issues of diversity including concepts of deviance, ability and disability in historical perspective. Social policies and inequality by social class, race/ethnicity/culture and gender. Department approval required.
EDF 7021 SUPERVISED EXPERIENCE IN COLLEGE TEACHING (2) A seminar to increase knowledge and competencies in college instruction. Students must have advanced graduate standing, be currently teaching a college level course, willing to be observed, and able to discuss ongoing classroom practices and problems. Open to all doctoral level Education majors, other doctoral students if space available. S/U optional.

EDF 7143 MEASUREMENT OF COGNITIVE FUNCTIONING IN CHILDHOOD AND ADOLESCENCE (4) Investigation of theories and measurement of cognitive functioning in childhood and adolescence. (PR: A course in measurement and CI)

EDF 7145 COGNITIVE ISSUES IN INSTRUCTION (4) Selected cognitive models of intelligence, memory, problem solving, thinking, and motivation applied to instructional strategies. (PR: Admission to doctoral program and EDF 6215, or CI.)

EDF 7167 EXPERIENTIAL LEARNING: THEORY AND METHODS (3) Theory and methods of experiential learning in both formal and organizational contexts.

EDF 7227 TOPICS IN BEHAVIOR ANALYSIS AND AUTOMATED INSTRUCTION (1-12) Seminar in experimental analysis of functional relationships between behavior and relevant environmental variables. Interpretation of complex human behavior and formulation of procedures which expedite instruction in educational procedures for computer delivery. (PR: EDF 6215 or EDF 6217 or Advanced Graduate Standing, CI)

EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS (4) Application of social and behavioral science theory to the organizational and developmental problems of schools and school systems. (PR: CI)

SOCIAL FOUNDATIONS

EDF 6517 HISTORICAL FOUNDATIONS OF AMERICAN EDUCATION (4) History of the origins and development of American education, events, and movements that have shaped school policies and practices, and their relationship to contemporary developments.

EDF 6520 EDUCATION IN WESTERN CIVILIZATION (4) Educational ideas, institutions, practices and prominent theorists from the western tradition and their continuing influence. (PR: Basic course in Western History or History of Philosophy.)

EDF 6544 PHILOSOPHICAL FOUNDATIONS OF AMERICAN EDUCATION (3) Major philosophies of education relevant to an understanding of contemporary education.

EDF 6606 SOcio-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION (4) Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.

EDF 6705 GENDER AND THE EDUCATIONAL PROCESS (3) Course is designed to enable public school personnel, teachers, counselors, administrators, and other professionals to identify those aspects of public education that perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.
EDF 6736 EDUCATION, COMMUNICATION, AND CHANGE (3) Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements. (PR: CI)

EDF 6765 SCHOOLS AND THE FUTURE (4) Estimates of future demands upon schools; critique of current paradigms, techniques and literature.

EDF 6810 COMPARATIVE EDUCATION (3) Comparison of contemporary educational systems of selected countries with that of the United States.

EDF 6812 SEMINAR IN COMPARATIVE EDUCATION (4) Policies and practices in education in selected countries.

EDF 6883 ISSUES IN MULTICULTURAL EDUCATION (4) Lecture/discussion course, open to both majors and non-majors; address both fundamental concepts and timely issues in multicultural education and working with culturally diverse students. (PR: GS and CI)

EDF 7586 CLASSICS IN EDUCATIONAL RESEARCH (4) Examination of the context, methods, and significance of selected research studies in education. (PR: GS; EDF 6517, EDF 6544, EDF 6606, or CI)

EDF 7649 ANALYSIS OF EDUCATIONAL ISSUES (3) Socio-cultural, historical, and axiological examination of selected issues in public education.

EDF 7682 EDUCATION IN METROPOLITAN AREAS (4) Modern public education and its relationship to national development. (PR: EDF 6517, EDF 6544, EDF 6606, or CI)

EDF 7934 SEMINAR IN SOCIAL FOUNDATIONS OF EDUCATION (4) Significant research on socio-cultural issues in Education. (PR: GS; EDF 6517, EDF 6544, or EDF 6606, or CI)

GENERAL

EDF 6906 INDEPENDENT STUDY: EDUCATIONAL FOUNDATIONS (1-6) Independent study in which students must have a contract with an instructor. Rpt. S/U.

EDF 6938 SELECTED TOPICS (1-4) Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Designed to fit the needs of each student. (PR: CC)

EDF 6944 FIELD EXPERIENCE (1-4) Demonstrate skills in the practice of the student’s specialty. Objectives will be defined by the needs of the individual student. (PR: CI)

EDF 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)
Secondary Education

4202 E. Fowler Avenue, EDU 162
Tampa, FL 33620
(813) 974-3533
(located EDU 302)
e-mail address: seced@tempest.coedu.usf.edu
WebAddress: http://www.coedu.usf.edu/deptseced/

Chairperson: Carine Feyten

Faculty: Richard Austin, Ann Barron, Michael Berson, Frank Breit, Michaele Chappell, Barbara Cruz, Pat Daniel, James Duplass, Carine Feyten, Jeffrey Golub, J. Howard Johnston, H. Karl, Joan Kaywell, Gladis Kersaint, B. Lichtenberg*, D. Lichtenberg*, Joyce Nutta, Fred Prince, Dick Puglisi, Sandra Schurr, Barbara Spector, H. Edwin Steiner, Denisse Thompson, Andria Troutman, Elizabeth Watts, James White, Dana Ziedler
*Professor Emeritus

Degrees Offered: M.A., M.Ed., Ed.S., Ph.D.

Programs:
- English Education (M.A., M.Ed.*, Ed.S.*, Ph.D.*)
- Foreign Language Education (M.A., M.Ed.*)
- Instructional Technology (MEd.*, Ph.D.*)
- Linguistics/Second Language Acquisition (Ph.D.)
- Middle Grades Education (M.Ed.)*
- Science Education (M.A., M.Ed.*, Ed.S.*, Ph.D.*)
- Secondary Education (Ph.D.)*
- Social Science Education (M.A., M.Ed.*)
- Theatre Education (M.Ed.)*

*Degree is offered in Curriculum and Instruction with the emphasis in...

English Education

M.A. in English Education (AEN) — Plan I

Additional Admission Requirements
In addition to University and College requirements, applicants must have:
1. An undergraduate degree approved by program advisor.
2. A substantial number of undergraduate hours in English.

Program Requirements
Program of Study
- Process Core
- Current Trends in Teaching Specialization
- Specialization

33 hours minimum
3-11 hours
3 hours
18 hours minimum
Based on the prior background of the student and the current certification requirements.

Comprehensive examination
(Required in both English and English Education.)

Plan II and Plan III programs are available for non-certified teachers.

M.Ed. in Curriculum and Instruction with an Emphasis in English Education (CEN)

The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Program Requirements
Program of Study
Process Core
EDF 6432  EDF 6481  EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Curriculum and Instruction (EDG 6627)
Specialization
in the area of emphasis, to include courses in content and/or the teaching of this content
Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the major area.

Ph.D. in Curriculum and Instruction with Emphasis in English Education (DCE)

This program is highly individualized. Candidates’ programs are planned (with approval by a faculty committee) based upon previous experience and future goals.

Additional Admission Requirements
In addition to University and College requirements, applicants must also satisfy the following:

1. Have two years of teaching experience
2. Be approved by the department chairperson and program committee

Program Requirements
This program requires a minimum of 75 hours beyond the Master’s degree.

Program of Study
Specialization
Curriculum and Instruction
Cognate Area
Supporting courses outside specialization area
Statistics/Measurement/Research Design
Foundations (Psychological and Social)
Dissertation

33 hours minimum
12 hours
3 hours
18 hours
11-12 hours
7-8 hours
24 hours minimum
Dissertation, Residency, and Doctoral Qualifying Examination
Refer to College listing for information.

Course Descriptions:

**LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH** (3) Investigation of topics of special interest to the student and related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with the student's particular goals and will be approved by the student's graduate advisor. (PR: Certification in English and/or Mass Communications and approval of graduate advisor)

**LAE 6336 NEW PERSPECTIVES ON THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS** (3) Survey of recent investigation into adolescents' perception of and responses to literature and implications for organization and presentation of literature curricula. (PR: Certification in English or Mass Communications)

**LAE 6345 TEACHING WRITTEN COMPOSITION** (3) Techniques for motivating, guiding, correcting, and evaluating student writing.

**LAE 6637 CURRENT TRENDS IN SECONDARY ENGLISH EDUCATION** (3) Curricular patterns and instructional practices in secondary English. (PR: LAE 4335 or LAE 4642 or Certification in English or Mass Communications)

**LAE 6644 CURRENT TEACHING OF THE ENGLISH LANGUAGE** (3) Application of recent techniques of language study to classroom teaching of English, especially in relation to current textbooks. (PR: Certification in English or Mass Communications)

**LAE 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST** (2-19 Var.) Rpt. S/U

**LAE 7980 DISSERTATION** (2-24 Var.) Rpt. S/U (PR: Admission to Candidacy)

Foreign Language Education (French, German, Spanish)

**M.A. in Foreign Language Education with Specialization in French (AFF), German (AFG), or Spanish (AFS)--Plan I**
Prepares educators for teaching foreign language in a K-12 environment.

### Additional Admission Requirements
In addition to University and College requirements, applicants must also have:
1. An undergraduate degree approved by program advisor.
2. Fluency in both English and a foreign language.

### Program Requirements

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Process Core</td>
<td>3-11 hours</td>
</tr>
<tr>
<td>Current Trends in Teaching Specialization</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

33 hours minimum.
Specialization 18 hours minimum
Based on the prior background of the student and the current certification requirements.
Comprehensive Examination: Required in both the Foreign Language and Foreign Language Education.

Plan II and Plan III programs are also available for non-certified students.

M.Ed. in Curriculum and Instruction with an emphasis in Foreign Language Education (CFE)

This is a flexible program intended to improve the foreign language educational skills of the classroom teacher. At least 60 percent of the program hours must be at the 6000 level.

Program Requirements
Program of Study
Process Core
- EDF 6432
- EDF 6481
- EDF 6211 or EDF 6215
- EDF 6517 or EDF 6544 or EDF 6606
Specialization 18 hours
in the area of emphasis, to include courses in content and/or the teaching of this content
Curriculum and Instruction (EDG 6627) 3 hours
Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the major area.

Ph.D. in Linguistics / Second Language Acquisition
Contact Department Chair for program details.

Course Descriptions:

FLE 6665 CURRENT TRENDS IN SECONDARY FOREIGN LANGUAGE EDUCATION (3) Designed for experienced classroom teachers, theoretical and practical implications of recent programs and methodology. Instructional practices in the teaching of foreign languages. Individual projects. (PR: FLE 4332/4333 or teaching experience. Fluency in the target language and in English.)

Instructional Technology

M.Ed. in Curriculum and Instruction with an Emphasis in Instructional Technology (CCO)
The graduate program in Instructional Technology prepares professionals to work with technology in a variety of instructional settings. It provides a wide range of experience in microcomputer hardware, software, and the educational applications of computers. In addition, instructional technology cognates are available for other graduate level programs.
Additional Admission Requirements
In addition to University and College requirements, applicants must also have two years of relevant experience as judged by the program faculty.

Program Requirements
Program of Study
Process Core
EDF 6432 EDF 6481 EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
or EDF 6736 or EDF 6705 or EDF 6883.
Specialization (in Instructional Technology)
EME 6930 EDF 6284
EME 6936 CGS 6210.
Curriculum and Instruction (EDG 6627)
Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination covering theoretical and applied objectives of the program.

Contact Program: See website: http://www.coedu.usf.edu/inst_tech

Ph.D. in Curriculum and Instruction with an Emphasis in Instructional Technology (DIT)
This program prepares leaders in the field who will create the knowledge required to successfully integrate technology in education and who will function as change agents within the field. The program is designed to prepare professional educators who possess special expertise in technology and who are able to apply technological approaches to teaching and learning processes and to the design of instructional programs in a wide variety of settings.

Additional Admission Requirements
In addition to University and College requirements, applicants must also satisfy the following:

1. Have expertise in Instructional Technology equivalent to that of a graduate of a Master's degree program in the field.
2. Submit 3 letters of recommendation.
3. Obtain favorable recommendations from program faculty.

Program Requirements
Program of Study
This program requires a minimum of 78 hours beyond the Master’s degree.
Specialization
Instructional Technology Specialization
Curriculum and Instruction
Cognate Area
Statistics/Measurement/Research Design
Foundations (Psychological and Social)
Dissertation
21 hours minimum
3 hours
12 hours minimum
11-12 hours
7-8 hours minimum
24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination
Refer to College listing for information.
Course Descriptions:

CGS 6210 MICROCOMPUTER HARDWARE SYSTEMS FOR EDUCATION (3) This course focuses on the development of an understanding of microcomputer hardware that allows individuals to teach as well as make decisions concerning purchase, repair, and appropriate use. Topics include: basic concepts of digital electronics, the operation of a digital computer system, major categories of computer peripherals, historical development of electronic computers, and selection and maintenance of computers in an educational setting. (PR: Computer literacy)

EDF 6284 PROBLEMS IN INSTRUCTIONAL DESIGN FOR MICROCOMPUTERS (3) This course focuses on the systematic design of instructional courseware, including analysis, media selection, and evaluation. Topics include instructional strategies, screen design, response analysis, feedback and interactivity. (PR: Computer literacy)

EME 5403 MICROCOMPUTERS IN EDUCATION (3) A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

EME 6425 MICROCOMPUTERS FOR SCHOOL MANAGEMENT (3) This course provides information and skills necessary for administrators and teachers to effectively use the computer and application software to manage information. Students use programs such as word processors, database managers, and spreadsheets to facilitate management tasks at the school and classroom level. In addition, general computer education topics are covered which provide for the computer literacy of school administrators.

EME 6613 DEVELOPMENT OF TECHNOLOGY-BASED INSTRUCTION (3) Application of computer-based instructional design principles to the development of technology-based instruction. This course also incorporates state-of-the-art materials and methods involving digital technologies. (PR: EDF 6284 or CI)

EME 6930 PROGRAMMING LANGUAGES FOR EDUCATION (3) Development of concepts, strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as web programming, Hyperscripting, Visual Basic. (PR: Computer literacy, programming experience)

EME 6936 APPLICATIONS OF COMPUTERS AS EDUCATIONAL TOOLS (3) Selected topics in the application of computing and related technology to the teaching and learning processes. Separate sections will focus on topics such as telecommunications, image and sound processing, interactive media, distance learning and advanced multimedia. (PR: Computer literacy)

EME 7938 COMPUTER-AUGMENTED INSTRUCTIONAL PARADIGMS IN EDUCATION (3) Seminar examining theory and application of computers and related technology in teaching and learning. (PR: Admission to program or CI)

EME 7939 RESEARCH IN TECHNOLOGY-BASED EDUCATION (3) Seminar examining research methods regarding the uses of computers and related technology on teaching and learning. Also includes investigation on role of computers and related technology as research instrumentation. (PR: Admission to program or CI)

EME 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)
Mathematics Education

M.A. in Mathematics Education (AMA)

This degree is designed mainly for high school teachers. (An M.A. degree designed to improve the skills of the classroom teacher in teaching mathematics to elementary school students is also available. Contact the Department of Childhood/Language Arts/Reading Education for information.)

Additional Admission Requirements
In addition to University and College requirements, applicants must also have a bachelor's degree in Math Education or a degree with a background in mathematics.

Program Requirements

Process Core
EDF 6432, EDF 6481, and EDF 6211 or 6215
Current Trends in Secondary School Mathematics (MAE 6136) 3 hours

Specialization
To be taken in mathematics and approved by the student’s advisor.

Electives
Coursework in mathematics education

Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the major area.

Plan II and III programs are available for non-certified teachers.

M.Ed. in Curriculum and Instruction with Emphasis in Math Education (CMA)

The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Program Requirements

Program of Study

Process Core
EDF 6432 EDF 6481 EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606

Specialization
in the area of emphasis, to include courses in content and/or the teaching of this content

Curriculum and Instruction (EDG 6627) 3 hours

Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the major area.
Ed.S. in Curriculum and Instruction with Emphasis in Math Education (SMA)

The Ed.S. degree in Curriculum and Instruction prepares specialists for classroom instruction or leadership/supervisory roles.

Additional Admission Requirements.
In addition to University and College requirements, applicants must also have a master's degree with emphasis in Mathematics Education, or Science Education (or approved related areas) with a 3.25 GPA or better.

Program Requirements
The Ed.S. Program is highly individualized. Within the program structure, candidates' programs are planned on the basis of previous educational and professional experience and future goals. The program of study must be approved by a faculty committee.

Program of Study

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses in Mathematics Education and/or Mathematics in the College of Arts and Sciences</td>
<td>15</td>
</tr>
<tr>
<td>Professional Education</td>
<td>12</td>
</tr>
<tr>
<td>Thesis/Project</td>
<td>9</td>
</tr>
<tr>
<td>Comprehensive Exam</td>
<td></td>
</tr>
<tr>
<td>Written and/or oral examination</td>
<td></td>
</tr>
</tbody>
</table>

Ph.D. in Curriculum and Instruction with Emphasis in Math Education (DMA)

The Ph.D. in Curriculum and Instruction, with an emphasis in Mathematics Education is granted on evidence of distinctive academic achievement and by the demonstration of ability to do original, independent investigation culminating in a dissertation. This program is highly individualized. Candidates' programs are planned (with approval by a faculty committee) based upon previous experience and future goals.

Additional Admission Requirements
In addition to University and College requirements, applicants must also satisfy the following:
1. Have two years of teaching experience
2. Be approved by the department chairperson and program committee

Program Requirements
A minimum of 76 hours beyond the Master's degree is required.

Program of Study

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Cognate Area</td>
<td>12</td>
</tr>
<tr>
<td>Supporting courses outside specialization area</td>
<td>12</td>
</tr>
<tr>
<td>Statistics/Measurement/Research Design</td>
<td>12</td>
</tr>
<tr>
<td>Foundations</td>
<td>7 - 8</td>
</tr>
<tr>
<td>Dissertation</td>
<td>24</td>
</tr>
</tbody>
</table>

Dissertation, Residency, and Doctoral Qualifying Examination
Refer to College listing for information.
Course Descriptions:

MAE 6136 CURRENT TRENDS IN SECONDARY MATHEMATICS EDUCATION (3)
Curricular patterns and instructional practices in secondary mathematics. (PR: MAE 4330 or CI)

MAE 6337 TOPICS IN TEACHING ALGEBRA (1-4) Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra. Rpt. up to 4 hours. (PR: Undergraduate degree in mathematics or certification in secondary school mathematics)

MAE 6338 TOPICS IN TEACHING GEOMETRY (1-4) Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry. Rpt. up to 4 hours. (PR: Undergraduate degree in mathematics or certification in secondary school mathematics)

MAE 6356 TEACHING OF PRE-SECONDARY SCHOOL MATHEMATICS (3)
Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years. Rpt. up to 9 hours. (PR: 12 hours of mathematics or CI)

MAE 6735 UNDERSTANDING MATHEMATICS, SCIENCE, AND TECHNOLOGY: HUMAN ENTERPRISES (3) Science, mathematics, and technology are presented as one multifaceted, dynamic, human-made enterprise responding to the human search for an understanding of the realities of the world. Different "ways of knowing" are compared. May be taken as SCE 6761. (PR: Advanced GS or CI)


MAE 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

Middle Grades Education

M.Ed. in Curriculum and Instruction with an Emphasis in Middle School Education (CMG)

This program is designed to enhance the ability of professional educators to work effectively with young adolescents in a variety of settings. This program leads to a middle grades endorsement to a Florida teaching certificate.

Program Requirements

Program of Study 33 hours minimum

Process Core 12 hours
EDF 6432  EDF 6481  EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606

Curriculum and Instruction (EDG 6627) 3 hours

Specialization 9-12 hours

in the area of emphasis, to include courses in content and/or the teaching of this content. Focus on the unique needs and characteristics of the early adolescent, on the components of an effective middle school program, on alternative delivery systems for teaching in the middle grades, on alternative assessment options for evaluating students in the middle grades and on current trends/issues related to middle level education.
The comprehensive examination will consist of a written and/or oral examination in the major area.

**Course Descriptions:**

**EDM 6622 CLIENT CENTERED MIDDLE SCHOOLS** (3) Combination lecture/discussion/individual study course that examines in depth the current research on needs/characteristics of the early adolescent and its implications for both organization of the middle grade school and its delivery of curriculum and instruction. Majors Only.

**EDM 6623 RESPONSIVE MIDDLE SCHOOL PROGRAMS** (3) Combination lecture/discussion/individual study course that examines in depth the current research on both the interdisciplinary team/advisory concepts and how these organizational patterns can promote thinking skills and integration of subject matter throughout the curriculum. (PR: EDM 6622)

**EDM 6624 EFFECTIVE INSTRUCTION FOR MIDDLE SCHOOLS** (3) Combination lecture/discussion/individual study course that examines in depth the current research on both alternative instructional strategies and assessment practices that are successful with middle level students. (PR: EDM 6622 and EDM 6623)

**EDM 6935 MIDDLE SCHOOL ISSUES SEMINAR** (1-3) Combines discussion/individual study seminar modeling the advisory concept in a university setting and examining the current research on a variety of important trends/issues affecting middle level education.

**Science Education**

**M.A. in Science Education with Emphasis in Biology (ASB), Chemistry (ASC), and Physics (ASY)**

**Plan I** - This program is designed mainly for high school teachers. (An M.A. degree designed to improve the skills of the classroom teacher in teaching science to elementary school students is also available. Contact the Department of Childhood/Language Arts/Reading Education for information.)

**Additional Admission Requirements**
In addition to University and College requirements, applicants must have a strong background in science, indicated by a major or its equivalent in Biology, Chemistry, or Physics.

**Program Requirements**
An individually planned program of a minimum of 33 hours selected in consultation with a departmental advisor.

**Program of Study**
- Process Core: 3-11 hours
- Current Trends in Teaching Specialization: 3 hours
Specialization
To be taken in the College of Arts and Sciences, a minimum of 18 hours in the area of specialization, based on the prior background of the student.
Comprehensive examination

Plan II - This program is designed for the student with a non-education baccalaureate degree who wishes to obtain initial teacher certification as part of the Master’s degree program. The program consists of a minimum of 43 hours, including a 6 hour internship. In addition, the student may be required to take a pre-requisite course at the undergraduate level.

Plan III - This program is designed for the student with a non-education baccalaureate degree who does not wish to gain teacher certification as part of the Master’s degree program. The program consists of a minimum of 33 hours.

M.Ed. in Curriculum and Instruction with Emphasis in Biology (CBI), Chemistry (CCH), Physics (CPY)
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Program Requirements
Program of Study
   Process Core  33 hours minimum
   EDF 6432    EDF 6481    EDF 6211 or EDF 6215
   EDF 6517 or EDF 6544 or EDF 6606
   12 hours

   Specialization
   in the area of emphasis, to include courses in content
   and/or the teaching of this content
   18 hours

   Curriculum and Instruction (EDG 6627)
   3 hours

   Comprehensive Examination
   The comprehensive examination will consist of a written and/or oral examination in the major area.

Ed.S. in Curriculum and Instruction with Emphasis in Science Education (SSC)
The Ed.S. degree in Curriculum and Instruction prepares specialists for classroom instruction or leadership/supervisory roles.

Additional Admission Requirements.
In addition to University and College requirements, applicants must also have a master’s degree with emphasis in Science Education (or approved related areas) with a 3.25 GPA or better.
Program Requirements
The Ed.S. Program is highly individualized. Within the program structure, candidates’ programs are planned on the basis of previous educational and professional experience and future goals. The program of study must be approved by a faculty committee. Contact Program Coordinator for more information.

Ph.D. in Curriculum and Instruction with Emphasis in Science Education (DSC)

The Ph.D. in Curriculum and Instruction, with an emphasis in Science Education is granted on evidence of distinctive academic achievement and by the demonstration of ability to do original, independent investigation culminating in a dissertation.

Additional Admission Requirements
In addition to University and College requirements, applicants must also satisfy the following:
1. Have two years of teaching experience
2. Be approved by the department chairperson and program committee

Program Requirements
This program is highly individualized. Candidates’ programs are planned (with approval by a faculty committee) based upon previous experience and future goals. A minimum of 75 hours beyond the Master’s degree is required.

Program of Study

<table>
<thead>
<tr>
<th>Specialization</th>
<th>18 hours minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum and Instruction</td>
<td>3 hours</td>
</tr>
<tr>
<td>Cognate Area</td>
<td>12 hours</td>
</tr>
<tr>
<td>Statistics/Measurement/Research Design</td>
<td>11-12 hours</td>
</tr>
<tr>
<td>Foundations (Psychological and Social)</td>
<td>7-8 hours minimum</td>
</tr>
<tr>
<td>Dissertation</td>
<td>24 hours minimum</td>
</tr>
</tbody>
</table>

Dissertation, Residency, and Doctoral Qualifying Examination
Refer to College listing for information.

Course Descriptions:

SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4) Rpt. when topics are not duplicated.

SCE 6634 CURRENT TRENDS IN SECONDARY SCIENCE EDUCATION (3) Curricular patterns and instructional practices in secondary science. (PR: Bachelor’s degree with major in science area, and certification in secondary science, or CC)

SCE 6736 RESEARCH IMPLICATIONS FOR TEACHING PRE-COLLEGE MATHEMATICS AND SCIENCE (3) Generates new perspectives on research by comparing research techniques in mathematics, natural sciences, and mathematics and science education, and by matching mathematics, science and technology questions to appropriate research paradigms. (PR: CI)
SCE 6737 TECHNOLOGY: SOLVING SOCIETAL PROBLEMS (3) Specific examples of mathematics/science/technology/society interaction are provided for integration into school-based mathematics and natural science courses. May also be taken as MAE 6737. (PR: Advanced GS or CI)

SCE 6738 MATHEMATICS AND SCIENCE EDUCATION POLICY, CHANGE, AND SCHOOL IMPROVEMENT (3) Knowledge, skills, and strategies are developed to become a facilitator of change for mathematics and science school improvement. Original change initiatives are designed and implemented. May also be taken as MAE 6738. (PR: EDF 7655 or Advanced GS or CI)

SCE 6761 UNDERSTANDING MATHEMATICS, SCIENCE, AND TECHNOLOGY: HUMAN ENTERPRISES (3) Science, mathematics, and technology are presented as one multifaceted, dynamic, human-made enterprise responding to the human search for an understanding of the realities of the world. Different "Ways of Knowing" are compared. May also be taken as MAE 6735. (PR: Advanced GS or CI)


SCE 7641 PROGRAMS AND RESEARCH IN EARTH SCIENCE EDUCATION (3) A study of curricula, issues, and research in Earth Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Earth Science instruction and (2) skills for developing Earth Science curricula. (PR: Master's degree or equiv. in Science Education or CC)

SCE 7642 PROGRAMS AND RESEARCH IN LIFE SCIENCES EDUCATION (3) A study of curricula, issues, and research in Life Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Life Science instruction and (2) skills for developing Life Science curricula. (PR: Master's degree or equiv. in Science Education or CC)

SCE 7643 PROGRAMS AND RESEARCH IN PHYSICAL SCIENCE EDUCATION (3) A study of curricula, issues, and research in Physical Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Physical Science instruction and (2) skills for developing Physical Science curricula. (PR: Master’s degree or equiv. in Science Education or CC)

SCE 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

Secondary Education

Ph.D. in Curriculum and Instruction with Emphasis in Secondary Education (DSD)

The Ph.D. in Curriculum and Instruction, with an emphasis in Secondary Education, is granted on evidence of distinctive academic achievement and by the demonstration of ability to do original, independent investigation culminating in a dissertation. This program is highly individualized. Candidates' programs are planned (with approval by a faculty committee) based upon previous experience and future goals.
Additional Admission Requirements
In addition to University and College requirements, applicants must also satisfy the following:
1. Have two years of teaching experience
2. Be approved by the department chairperson and program committee

Program Requirements
A minimum of 75 hours beyond the Master’s degree is required.

Program of Study
- Specialization: 18 hours minimum
- Curriculum and Instruction: 3 hours
- Cognate Area: 12 hours
  - Supporting courses outside specialization area: 11-12 hours
- Foundations (Psychological and Social): 7-8 hours minimum
- Dissertation: 24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination
Refer to College listing for information and contact program.

Course Descriptions:

ESE 6906 INDEPENDENT STUDY: SECONDARY EDUCATION (1-6) Independent study in which students must have a contract with an instructor. Rpt. S/U.

Social Science Education

M.A. in Social Science Education (ASO)

Plan I. This program is designed for teachers certified in social sciences education, typically with a baccalaureate degree from a college of education. It is an individually planned program based on a student’s background and professional goals.

Program Requirements
- Program of Study: 36 hours minimum
  - Process Core: 15-16 hrs.
  - Current Trends in Teaching Specialization (SSE 6636): 3 hours
  - Specialization: 18 hours minimum
  - Courses taken in the College of Arts and Sciences
  - Comprehensive examination

Plan II. This program is designed for individuals with a non-education baccalaureate degree and who are not certified to teach. Typically they are not graduates of a College of Education. This program leads to certification to teach in social sciences as part of the master’s degree program.

Program Requirements
In addition to the graduate coursework listed below, students must take the following undergraduate social studies methods courses to satisfy teacher certification requirements: SSE 4333, SSE 4334, SSE 4335, and SSE 4640.
Program of Study

Process Core
EDF 6432  EDF 6211 or EDF 6215
EDF 6481  EDF 6517 or EDF 6544 or EDF 6606
EDG 6627
*(Students may take EDG 4640 in lieu of EDG 6627)

Current Trends in Teaching Specialization (SSE 6636)

Specialization
Courses taken in the College of Arts and Sciences

Internship
Comprehensive examination

42 hours minimum
15-16 hrs.
3 hours
18 hours minimum
6 hours

M.Ed. in Curriculum and Instruction with Emphasis in Social Science Education (CSO)

Students are not currently being admitted under this option. This program is designed for teachers certified in social sciences education, typically with a baccalaureate degree from a College of Education.

Program Requirements
An individually planned program.

Program of Study

Process Core
Current Trends in Teaching Specialization
Specialization
Courses to be taken in the College of Education, focused on social science education
Comprehensive Examination

36 hours minimum
15-16 hours
3 hours
18 hours

Course Descriptions:

SSE 5644 ECONOMIC DECISION-MAKING FOR TEACHERS (3) Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs. (PR: Admission to College of Education or CC)

SSE 6617 TRENDS IN ELEMENTARY SOCIAL STUDIES EDUCATION (3) This course is designed to study techniques and strategies employed by social studies teachers that are affective in motivating elementary school aged youth to acquire the information, skills and modes of reasoning unique to the social sciences. Students are expected to conduct research and demonstrate use of various methods, techniques and materials. Theoretical foundations of social studies are also examined. (PR: SSE 4313 or Dual Track Admission)

SSE 6636 CURRENT TRENDS IN SECONDARY SOCIAL STUDIES (3) This course is designed for graduate students to research the history, theory, practices and current trends of social science education and to develop a personal, academic social science philosophy. (PR: SSE 4333, SSE 4334, SSE 4335)
Theatre Education

M.Ed. in Curriculum and Instruction with an Emphasis in Theatre Education (CTE)

This program is designed for certified teachers who have not completed a degree in theatre (particularly those certified in Speech or English). The program provides the teacher with a minimum of knowledge and experience considered necessary for a theatre teacher.

Program Requirements

Program of Study

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Foundations of Education and Curriculum and Instruction</td>
<td>15</td>
</tr>
<tr>
<td>May be taken at any USF regional campus (up to 6 hours may be transferred).</td>
<td></td>
</tr>
<tr>
<td>Specialization</td>
<td>17-18</td>
</tr>
<tr>
<td>Up to 14 hours may be taken during the summer session; however, 4 courses (12 hours) will be offered only during the summer session.</td>
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<tr>
<td>THE 5909*</td>
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<tr>
<td>THE 5931*</td>
<td></td>
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<tr>
<td>EDG 6329</td>
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<tr>
<td>THE 6736</td>
<td></td>
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<tr>
<td>THE 6730</td>
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<td>THE 6930</td>
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</tbody>
</table>
*Descriptions are provided under the College of Fine Arts.
Special Education

4202 E. Fowler Avenue, EDU 162
Tampa, Fl 33620
(813) 974-3410
(located EDU 402)
WebAddress: http://www.coedu.usf.edu

Chairperson: Betty Epanchin
Program Coordinator (M.A.): Betty Epanchin
Program Coordinator (Ph.D., Ed.D.): Kofi Marfo

*Senior Research Scholar

Degrees offered: M.A in Behavior Disorders (ABD)
M.A. in Specific Learning Disabilities (ALD)
M.A. in Mental Retardation (AMR)
M.A. in Varying Exceptionalities (AVE)
M.A. in Gifted Education -Plan 1 (AGI)
Ed.D. in Educational Program Development with an emphasis in
Special Education Administration and Supervision (ESE)
Ph.D. in Curriculum and Instruction with an emphasis in
Special Education (DSE)

The programs of study in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings at the master’s and doctoral levels. Specific areas of education and training include behavior disorders, gifted, mental retardation, specific learning disabilities, and varying exceptionalities. The master’s programs emphasize consultative, supervisory, and multidisciplinary skills needed by persons who wish to assume innovative leadership roles in public or private school settings. The doctoral program prepares students for research, teacher education, and leadership roles.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

Master of Arts in Special Education with Emphases in Behavior Disorders (ABD), Specific Learning Disabilities (ALD), Mental Retardation (AMR), Varying Exceptionalities (AVE)
Plan I - The M.A. program in special education is a 36-hour program, designed for students holding a valid Florida teaching certificate in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

**Scheduling Options** Students may select one of two scheduling options:

1. Evening courses are offered during the fall and spring semesters. Daytime courses are offered during the summer. Students selecting this alternative usually take one or two courses a semester and complete their program of study within two to four years. With this option, students are required to take courses two of the three semesters each year and they must complete their program of study within 7 years of their admission date.

2. Students may enroll in the School-based Teacher Education Partnership (STEP) Program, a scheduling option that enables students to complete their degree within 14 months by attending two intensive summer school sessions plus weekend and evening courses during the intervening academic year. This option is designed for employed teachers but is open to students without teaching credentials. Students selecting this option are only admitted during the Spring semester for summer matriculation. In this option, students remain with a cohort of students for the entire program of study.

**Additional Admission Requirements**
In addition to University and College requirements, applicants are also required to submit:

1. Have a baccalaureate degree in special education
2. Meet College of Education minimum GRE and GPA requirements
3. Submit evidence of successful professional/paraprofessional experience working directly with children, or a have successful interview with the Admissions Committee of the Department of Special Education.
4. Submit three letters of recommendation from persons who have seen the applicant working with children, and/or from persons who can attest to the applicant’s ability to do graduate work (former professors).
5. Submit an essay explaining professional goals and reasons for pursuing graduate studies.
6. STEP students are admitted annually and must apply by March 1.

**Program Requirements**

**Program of Study**

<table>
<thead>
<tr>
<th>Process Core</th>
<th>36 hour minimum</th>
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<tbody>
<tr>
<td>EDF 6481</td>
<td>3 hours</td>
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<table>
<thead>
<tr>
<th>Current Trends in Special Education</th>
<th>3 hours</th>
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<tbody>
<tr>
<td>EEX 6939</td>
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<table>
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<tr>
<th>Specializations</th>
<th>27 hours minimum</th>
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<tr>
<td>Special Education Program Core: (21 hours)</td>
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<tr>
<td>EEX 6025*</td>
<td>EEX 6612</td>
</tr>
<tr>
<td>EEX 6222</td>
<td>EEX 6245</td>
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<tr>
<td>EEX 6732</td>
<td>EEX 5752</td>
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<tr>
<td>EEX 6248</td>
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<tr>
<td>* Not required, if equivalent course taken in undergraduate program.</td>
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</tbody>
</table>

| Behavior Disorder Specialization Courses: (6 hours) |
| EED 6215 | EEX 6943 |

| Specific Learning Disabilities Specialization Courses: (6 hours) |
| ELD 6015 | EEX 6943 |

| Mental Retardation Specialization Courses: (6 hours) |
|                                                     |
Varying Exceptionalities Specialization Courses: (12 hours)

- EED 6215
- ELD 6015
- EMR 6052
- EEX 6943

Electives
Project
3-6 hours

For students seeking certification in Behavior Disorders, Learning Disabilities, and Mental Retardation, 3 to 6 hours of coursework relevant to the student's program of study are required and must be approved by the student's advisor.

**The Dual track and Plan III** options are also available for students who are not certified in special education. Dual track students are required to take prerequisite courses in education to meet certification requirements. Departmental advisors assist students in determining the courses that will be required.

**M.A in Gifted Education (AGI) — Plan I**

The Gifted Child Teacher Preparation program provides advanced training for certified teachers to work with gifted and talented children and to work with other teachers on a consultant or collaborative basis. Emphasis is placed on developing specific skills in identification of gifted students, focusing on the characteristics and needs of special populations, assessing students' cognitive and affective strengths and weaknesses, modifying educational programs to develop gifted students' potential, and consulting with gifted students, their families, and teachers. This program qualifies students for the State of Florida endorsement in Gifted Education.

**Program Requirements**

- **Program of Study**
  - Process Core
    - EDF 6481
  - Current Trends in Special Education
    - EEX 6939
  - Specialization
    - Special Education Program Core (6)
      - EEX 6025
      - EEX 6222
    - Specialization Courses (18)
      - EGI 5051
      - EGI 5325
      - EGI 6232
      - EGI 6936
      - EGI 6416
      - EGI 6943
  - Electives
    - 6 hours

- **Comprehensive Examination**
- A Plan III option is also available for non-certified students.
Ed.D. in Educational Program Development with Emphasis in Special Education Administration and Supervision (ESE)

The program's mission is to prepare administrators at the doctoral level to effectively lead and manage programs for special education and at-risk populations. Note: Students are not currently being admitted into this program.

Ph.D. in Curriculum and Instruction with an Emphasis in Special Education (DSE)

This program is an individualized, personally mentored, systems research and development program in which students develop an array of skills necessary for either a university faculty position or a leadership career in special education.

Additional Admission Requirements
In addition to University and College requirements, applicants are required to have

1. A master's degree in special education or a related field.
2. Grade point average of 3.5 or higher at the graduate level.
3. GRE Composite Score (Verbal and Quantitative) of 1100 or higher.
4. A two-year work experience in special education or in a closely related field.
5. Special Program Requirements

The Ph.D. program of study is a full-time commitment. The program is individually planned by the student and a faculty advisory committee and approved by the department chairperson.

Program Requirements
Program of Study

The program requires 75 hours beyond the master's degree.

Specialization

Special Education Specialization 18 hours minimum

Required:
- EEX 7301
- EEX 7341
- EEX 7741

Remaining hours to be selected from:
- EEX 7203
- EEX 7841
- EEX 7911

Curriculum and Instruction 3 hours

Cognate Area 12 hours

Statistics/Measurement/Research Design 11-12 hours

Foundations (Psychological and Social) 7-8 hours minimum

Dissertation 24 hours minimum

Dissertation, Residency, and Doctoral Qualifying Examination
Refer to section with College Requirements.

Course Descriptions:

EED 6211 EDUCATIONAL STRATEGIES FOR STUDENTS WITH BEHAVIOR DISORDERS (3) Advanced methods and materials for planning, implementing, and evaluating educational interventions with students with behavior disorders. (PR: CI) (For certification only)
EED 6215 ADVANCED THEORIES AND PRACTICES IN BEHAVIOR DISORDERS (3) In-depth study of specific behavioral disorders of children and youth, with an emphasis on educational implications and interventions. Fall semester. (PR: GS, CI)

EED 6246 EDUCATING THE AUTISTIC STUDENT (3) Developing and managing appropriate and effective educational programs and techniques for students who have autism. (PR: GS, introductory course in educating exceptional students; Psycho-educational assessment)

EED 6943 SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS (1-12) Supervised graduate practicum experiences with children who have behavior disorders. Fall and Spring. (For students seeking certification only). S/U. (PR: CI)

EEX 5705 SEMINAR IN PRESCHOOL HANDICAPPED (2) Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services. Fall and Spring.

EEX 5752 WORKING WITH FAMILIES: A PLURALISTIC PERSPECTIVE (3) The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today. Spring Semester. (PR: GS or CI)

EEX 6025 TRENDS AND ISSUES IN SPECIAL EDUCATION (3) Survey of all exceptionalities including current trends and issues related to the field of special education. Fall Semester.

EEX 6222 ADVANCED PSYCHOEDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS (3) Theory and methodology associated with norm-referenced, criterion-referenced, curriculum-based, ecological, and psychoneurological assessment procedures for exceptional students. Fall and Spring. (PR: GS, introductory courses in exceptional student education and educational assessment)

EEX 6245 TRANSITIONAL PROGRAMMING FOR THE ADOLESCENT AND YOUNG ADULT EXCEPTIONAL STUDENT (3) Procedures for implementing educational programs with exceptional adolescents. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy. Spring and Summer Semester. (PR: GS, introductory course in educating exceptional students)

EEX 6248 INSTRUCTIONAL APPROACHES FOR EXCEPTIONAL POPULATIONS (3) In-depth study of instructional strategies that are effective when teaching students with emotional disturbance, mental retardation, and learning disabilities. Content includes techniques for curriculum adaptation, IEP development; direct, data-based and metacognitive strategy instruction; and micro-computer applications. Spring Semester (PR: GS, CI)

EEX 6511 ADMINISTRATION OF EXCEPTIONAL STUDENT PROGRAMS (3) Procedures that local, state, and national administrators may use to implement services for exceptional students. Fall Semester (PR: CI)
EEX 6526 GRANTSMAINTSHIP (3) Fundamental skills for obtaining external funding of training, service, and research projects in education and the social sciences. Includes locating and communicating with sponsors, developing proposals, and preparing budgets. Emphasis is on grantsmanship in an academic environment. (PR: Advanced GS or CI) (Spring)

EEX 6612 MANAGEMENT AND MOTIVATION OF EXCEPTIONAL AND AT-RISK STUDENTS (3) Focuses on approaches to classroom management and motivational strategies when working with exceptional students. Content includes applied behavior analysis techniques, psychoeducational approaches, and social skills training. Available to non-majors. Fall Semester. (PR: GS)

EEX 6706 EDUCATION OF THE PRESCHOOL HANDICAPPED CHILD (3) Education of children ages birth through five with special needs. Basic concepts, curricular intervention strategies, and organizational structures are covered. Fall Semester. (PR: CI)

EEX 6732 CONSULTATION AND COLLABORATION IN SPECIAL EDUCATION (3) Theories of consultation and collaboration. Overview of service delivery models in special education. Fall Semester. (PR: Introductory course in special education, GS or CI)

EEX 6906 INDEPENDENT STUDY: SPECIAL EDUCATION (1-6) Independent study in which students must have a contract with an instructor. Rpt. S/U.

EEX 6936 SEMINAR IN INTEGRATING EXCEPTIONAL STUDENTS IN REGULAR EDUCATIONAL ENVIRONMENTS (3) Designed for non-special education graduate students. Surveys the characteristics of exceptional student populations, identification procedures, and systems for providing appropriate services for "mainstreamed" student in academic and non-academic settings.

EEX 6939 ADVANCED SEMINAR: PARADIGMS, PRACTICES, AND POLICIES IN SPECIAL EDUCATION (3) An advanced graduate seminar stressing cross-categorical relationships. Topics include research that deals with paradigms for providing service, service models, and legal mandates. Spring Semester. (PR: Students should be in the last semester of coursework for master's degree, CC)

EEX 6943 PRACTICUM IN EXCEPTIONAL STUDENT EDUCATION (1-4) Supervised field work in exceptional student education with children (including preschool handicapped) who have learning disabilities, mental handicaps, emotional and behavioral disabilities, physical disabilities, or multiple disabilities. Rpt. up to 12 hours. S/U. Fall and Spring. (PR: Admission to Master's Degree Program in Special Education and CI)


EEX 7203 EDUCATIONAL IMPLICATIONS OF PSYCHOSOCIAL ASPECTS OF EXCEPTIONAL CHILDREN (1-5) This course will be concerned with the identification of the psycho-social needs and characteristics of exceptional children; opportunity of analysis of the educational implications of these needs and characteristics. Rpt. up to 5 hours. (PR: CI)

EEX 7301 SELECTED TOPICS IN SPECIAL EDUCATION (1-8) Identification and study of ethical and research issues in special education. Opportunity will be provided for the student to gather and process data, as appropriate, culminating in a written report and/or oral presentation to fellow student researchers. Rpt. up to 8 hours. (PR: EEX 7341 or CI)
EEX 7341 RESEARCH STUDIES AND THEIR IMPLICATIONS IN THE EDUCATION OF EXCEPTIONAL CHILDREN (3) This course will involve a study of current research and research methods used in exceptional child education. The transition from theory to practice will be made through the examination and discussion of implications in the field of special education that can be drawn from the research. (PR: EDF 6431, EDF 6481, or equiv., CI)

EEX 7741 PHILOSOPHY AND THEORY IN THE PREPARATION OF SPECIAL EDUCATION SPECIALISTS (3) In-depth exploration of the philosophy and theory in special education. A theoretical basis for the preparation of specialists in the field of exceptional child education. (PR: Admission in the Program for Ed.S. or Ph.D. in Education)

EEX 7841 FIELDWORK WITH EXCEPTIONAL STUDENTS (1-5) Practical field experience in curriculum development, classroom teaching, supervision, and/or administrative areas in special education. Rpt. up to 5 hours. (PR: CI)

EEX 7911 SPECIALIZED STUDY IN: MENTAL RETARDATION, BEHAVIOR DISORDERS, SPECIFIC LEARNING DISABILITIES, AND GIFTED EDUCATION (1-8) The specialized study enables advanced exploration of knowledge in an area of interest to the student in special education. May be repeated for a maximum of 8 hours. (PR: CI)

EEX 7980 DISSERTATION (2-24 Var.) Rpt. (PR: Admission to Candidacy)

EGI 5051 NATURE AND NEEDS OF THE GIFTED (3) This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming. Fall Semester.

EGI 5325 THEORY AND DEVELOPMENT OF CREATIVITY (3) This course explores the concept of creativity, its factors, related theories, measurement, and nurturance. A focus on formal and informal applications will include educational programs, curriculum and strategies. Summer Semester.

EGI 6232 ADVANCED EDUCATIONAL STRATEGIES FOR THE GIFTED (3) Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted will be the focus of this course. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring. Spring Semester. (PR: EGI 5051)

EGI 6416 CONSULTATION, COUNSELING, AND GUIDANCE SKILLS FOR GIFTED STUDENTS (3) Primary emphasis of this course will be to provide an awareness, knowledge, and understanding of the unique guidance and counseling needs of students who are gifted and talented or from special populations.
The College of Engineering graduate activity is provided by six departments. Each is responsible for an area of engineering disciplines and the supervision of one or more academic programs. Students are admitted to a specific academic program in a specific department. In addition to the centralized facilities of the college, departments are equipped with their own specialized laboratories and equipment related to their disciplines. The following sections provide more information on the engineering disciplines, academic programs, and resources of each department. For additional information on a specific department, request a copy of the department’s Graduate Student Handbook from its Graduate Program Coordinator.

The College of Engineering offers graduate programs in both Engineering and Applied Sciences to meet the diverse demands of the future. This spectrum of program offerings provides the prospective student with a choice of avenues, depending upon individual interests, career objectives, and capabilities for significant technological contributions.

Laboratory experience, as well as real-world participation in technological problem-solving, is a key aspect of a professional engineer’s college education. The College of Engineering, in addressing this need, augments its own modern laboratory and research facilities by close contact with professional societies and the many industries in the metropolitan Tampa Bay area and beyond.

Students interested in particular programs offered by the College of Engineering should direct their inquiries to the specific department or to the Associate Dean for Academic Affairs of the College of Engineering.

Research
During the academic year 1998-1999, the USF College of Engineering contracted more than $9.5 million in externally sponsored research. All departments, faculty as well as students, contribute to this research at the University of South Florida. The direct exposure of students to real research needs of the state and industry adds additional meaning and depth to the engineering education offered by the college.
College Facilities
In addition to the specialized laboratory facilities of the individual departments, the USF College of Engineering maintains College facilities to support the teaching and research activities of all departments. These facilities include a machine shop, a scanning electron microscope facility, a Class 100 Clean Room, and the computer facilities provided by Engineering Computing Services.

The Machine Shop, manned by expert model makers, includes welding facilities and machine tools to permit fabrication of devices for teaching and research from a wide range of engineering materials.

The Scanning Electron Microscopy facility houses a JEOL scanning electron microscope which can create a magnified image up to 300,000 times the original size. Also used is an energy dispersive X-ray analysis system which identifies and quantifies elements present in a sample. Any dry sample up to six inches in diameter can be placed in the chamber of the microscope to be magnified and photographed and/or analyzed for sample composition.

College Computing Facilities
Engineering Computing provides college-wide access to computing for students and faculty. Students and faculty also have access to local facilities in the engineering departments, the distributed systems of Academic Computing and the IBM facilities at the Central Florida Regional Data Center (CFRDC).

The College of Engineering operates a cluster of file and computer servers for students and faculty within the College. Standard programming languages and larger scale engineering software are provided on these machines. Convenient links are available for access to the vector processor at CFRDC.

In addition to these networked second tier facilities, the College operates open access P.C. labs, 90, 350 MHz, Pentium II, and some 500 MHz Pentium III's. There are 90, 50MHz 486 workstations in these labs. These labs are also networked, and E-mail and Internet access is available from all seats. All engineering faculty and students can have computer accounts, E-mail, and Internet access on request.

The college-wide Ethernet is connected to the USF campus-wide FDDI ring, this provides the connectivity to the IBM facilities and those of Academic Computing. Within the College, connections are provided to offices, laboratories, classrooms, and dial-in access is available both from an engineering modem bank as well as from general USF modem banks. The FEEDS studios are also networked to provide demonstrations for remote classes. In addition, each department has its own computing lab(s).


Master of Science
Specializations:
- Biomedical Engineering (M.S.B.E.)
- Chemical Engineering (M.S.Ch.E.)
- Civil Engineering (M.S.C.E.)
- Computer Engineering (M.S.Cp.E.)
- Computer Science (M.S.C.S.)
- Electrical Engineering (M.S.E.E.)
- Engineering (M.S.E.)
Engineering (Manufacturing Option) (M.S.E.)
Engineering Management (M.S.E.M.)
Engineering Science (M.S.E.S.)
Environmental Engineering (M.S.E.V.)
Industrial Engineering (M.S.I.E.)
Mechanical Engineering (M.S.M.E.)

Master of Engineering (M.E.)
Specializations:
Chemical Engineering (M.Ch.E.)
Civil Engineering (M.C.E.)
Computer Engineering (M.Cp.E.)
Computer Science (M.C.S.)
Electrical Engineering (M.E.E.)
Engineering (M.E.)
Environmental Engineering (M.E.V.E.)
Industrial Engineering (M.I.E.)
Mechanical Engineering (M.M.E.)

Doctor of Philosophy (Ph.D.)
Specializations:
Chemical Engineering
Civil Engineering
Computer Science and Engineering
Electrical Engineering
Engineering Science
Industrial Engineering
Mechanical Engineering

Graduated Certificates offered (refer to Graduate Certificate listing for information):
Biomedical Engineering
Interdisciplinary Transportation
Solid and Hazardous Waste Management
Total Quality Management
Wireless Engineering

Master's Degree Programs
The master's degree is awarded for advanced study beyond the baccalaureate degree within an area of specialty. The College of Engineering offers several programs leading to degrees at the master's level. These programs can be divided into Engineering-oriented and Engineering Science programs.

The Engineering-oriented degree programs offered by the college are: The Master of Science in a designated engineering field, the post-baccalaureate Master of Science in Engineering program, the Master of Engineering in a designated discipline, the Master of Engineering program, and the Five-Year Program leading to the simultaneous award of both the bachelor and master's degree. Each department determines the degree to be awarded, depending upon the student's background and specific program of study pursued.

Master of Science in Designated Engineering Field  See previous list of designated fields. For further information on sub-specialization, see information for each department on the following pages. This degree is normally awarded to a Master's graduate who holds a Bachelor's degree in the designated field and who follows a thesis program.
Master of Science in Engineering Science. This program includes a combination of engineering principles and their application to such varied fields as physical sciences, life sciences, social sciences, environmental sciences, applied mathematics, and bio-medical engineering. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

Master of Science in Engineering. This degree is normally awarded to a Master’s graduate who has an undergraduate degree in engineering or who has a bachelors degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses. It is a thesis program.

Master of Designated Discipline. This degree is normally awarded to a Master’s graduate who has an undergraduate degree in the discipline and who follows an all coursework program or a project program.

Master of Engineering. This degree is normally awarded to a Master’s graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs.

Manufacturing Option. In addition, the departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering offer a Master of Science in Engineering with a Manufacturing Systems Option (consisting of an 18 hour core and 18 hours of electives). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree with areas of Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems available for emphasis. The student, upon completion of the core courses, may choose electives and concentrate within one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making elective course choices from several departments.

Additional College Admission Requirements

1. Admission to a master’s program is dependent upon a favorable evaluation by the department to which the student is applying.

2. Applicants are expected to meet the minimum requirements of the University and those of the College. Individual departments may have additional specific and higher requirements. More complete information may be obtained from the Graduate Programs Coordinator for the specific department.

3. A baccalaureate degree in Engineering from an ABET accredited program or CSAB accredited program for Computer Science is generally required for graduate work in the same designated field. However, due to differences in undergraduate programs at different universities some remedial work may be required for students with undergraduate degrees from other schools. Degrees in Mathematics, Physics, Chemistry, and other fields may be accepted on an individual basis. In such cases, it is probable that supplemental remedial work in engineering will be necessary.
4. Those who do not meet the regular requirements may (with prior approval of the appropriate department representative) attempt a trial program as a non-degree seeking student. Contact the program director for information.

**General Program Requirements**

The requirements for graduate degrees from the College of Engineering consist of University requirements, College requirements, and Departmental requirements. For University requirements refer to the chapter on Academic Policies and Procedures. College requirements are listed below. Refer to the following sections for requirements of each department.

**College of Engineering Requirements for Master’s Degree**

1. A thesis program must contain a minimum of 24 credit hours of coursework and a minimum of 6 credit hours of thesis. (If a student transfers from a thesis program to a project or all coursework program, no thesis hours may be transferred, converted or counted toward the degree.)

2. Non-thesis program requirements vary according to department but must contain a minimum of 33 credits of approved coursework.

3. Students must maintain an overall grade point average of 3.0. No grade below “C” will be accepted in a graduate program. If a student’s average falls below 3.0, the student will be placed on probation and must obtain a directed program from the appropriate advisor, and approval by the Engineering Associate Dean for Academic Affairs, prior to continuing coursework for a degree.

4. All students are required to pass a final oral or written comprehensive examination prior to receiving the degree. These examinations are arranged and administered by the student’s department.

**Five-Year Programs Leading to Bachelor and Master’s Degrees**

Students who, at the end of the junior year, clearly are interested in graduate study are invited to pursue a five-year program leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master of Science in Engineering or Engineering Science degrees. The keys to this program are 1) a two-year research program extending through the fourth and fifth years and 2) The opportunity to take graduate courses during the fourth year and deferring senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately. Students apply for admission to this program through their advisors, who should be consulted when additional information is needed. General requirements include:

1. Senior standing (90 credits) with at least 16 upper-level engineering credits completed at the University of South Florida with a 3.0 GPA.

2. A minimum score of 1000 on the GRE.

**Biomedical Engineering (M.S.B.E.)**

Biomedical Engineering is a highly interdisciplinary program. Student work with an advisor to develop a graduate program which emphasizes biomedical engineering drawing on course work from all the engineering disciplines, the life and physical sciences, and public health. Current active areas of research and coursework include: Imaging Science and Technology, Computer Assisted Analysis and Diagnosis, Telehealth, Biomaterials, Medical Devices, and Bioengineering Education.

The Program consists of a minimum of 24 hours of coursework and 6 hours of thesis. The program is open to qualified engineering students from any engineering discipline and students
from related disciplines (Physics, Biology, Mathematics, etc.). Students from non-engineering disciplines will normally be required to take additional prerequisite engineering courses.

The Program is administered by Dr. Carlos Smith, Associate Dean for Academic Affairs and Directed by Dr. William Lee (Lee@eng.usf.edu).

**Doctoral Degree Programs**

The Doctor of Philosophy degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Unlike the baccalaureate and master's degrees, the Ph.D. degree cannot be earned by an accumulation of course credits over a period of residence alone. After adequate fundamental preparation to gain competence, the student must demonstrate research capability through completion of an authoritative investigation in the chosen engineering field, culminating in a written dissertation. The dissertation must demonstrate that the student possesses the ability to reason logically, the talent for engaging in significant and original research, and the ability to organize and present conclusions in a professional manner.

**Additional Admission Requirements**

In addition to the university's minimum admission requirements, applicants must also have the following:

1. An undergraduate degree in the respective Engineering or Computer Science discipline.
2. Applicants from other disciplines, non-ABET accredited programs, or foreign institutions may be considered for admission; however, they will be required to engage in additional coursework to develop proficiency equivalent to an undergraduate of the discipline in which the student pursues graduate work. The exact number of hours of such remedial work will be determined by the major department.
3. Individual departments may have higher than college standards.

**Program Requirements**

1. **Supervisory Committee.** An advisor will be appointed by the chair of the appropriate department or program for each student during the first semester of registration at the University of South Florida. The advisor will help determine the student's area of research interest and will delineate preliminary course assignments. At the earliest possible date, a major professor will be appointed and a supervisory committee formed. This committee will monitor the student's program of studies and has full responsibility for conducting the student's qualifying examination. The Supervisory Committee consists of a minimum of five members. One member of the committee must be outside the College of Engineering. (The requirement may be waived if special reasons exist and prior approval is obtained from the Engineering Associate Dean for Academic Affairs.) A majority of the committee will be from the College of Engineering, with at least two departments of the college represented.

2. **Credit Hours.** A minimum of 60 hours of coursework beyond the baccalaureate degree plus a minimum of 20 hours of dissertation research is required. Total hours of credit must equal or exceed 90 hours. A minimum of 27 hours coursework in an engineering area of concentration is required. The 27 hours need not be coursework in the same department, but must focus directly upon the areas of concentration; at least 20 hours must be at the 6000 level. In addition, a minimum of 8 hours of mathematics or statistics is required. Engineering Mathematics may be approved by the committee if appropriate. Also, a minimum of 8 hours of coursework as defined by the committee outside the major area of concentration is required. Further requirements may be imposed by the candidate's committee.

3. **Learning Focus.** Throughout the student's program of study, independent learning will be emphasized. For the first time in the participant's career, in most cases, the student will
be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be current literature. Such experience is a necessary preparation for a meaningful career in engineering and other fields where the professional must keep pace with a large, ever-changing body of knowledge.

4. **Diagnostic Examination.** All prospective candidates must pass a Ph.D. diagnostic examination that includes an area of mathematics and a prescribed area of concentration. This examination must be taken after the student has completed appropriate studies, usually equivalent to one year's coursework. Students entering with a master's degree must take this examination before the end of the first year after admission to the program.

5. **Qualifying Examination.** A written and oral qualifying examination, conducted by the supervisory committee, will be taken by each Ph.D. student as soon as a substantial majority of coursework is completed. Completion of this examination and the Tools of Research admits the student to candidacy.

6. **Admission to Candidacy.** Students must be admitted to candidacy before they register for dissertation. Before admission to candidacy, students must have: a) passed the diagnostic examination of paragraph 4; b) passed the qualifying examination of paragraph 5; c) demonstrated proficiency in written and spoken English; d) satisfied the Tools of Research requirement; e) been accepted by a department faculty member credentialed to serve as chair of the dissertation committee. It is the responsibility of the Ph.D. committee for each doctoral student to define the Tools of Research requirement within 2 months after committee formation. It is the responsibility of the Supervisory Committee to certify by letter to the Engineering Associate Dean for Academic Affairs that this has been completed, and the committee shall specify that the Tools/Skills of the candidate are applicable and sufficient for the field of proposed study. Once admitted to candidacy students must enroll for a minimum of 2 credit hours each semester of the academic year until completion of program.

7. **Dissertation Research.** The student must carry out an investigation resulting in an original and significant contribution to the knowledge in the field of research. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. As the final stage of the student's program, the candidate must prepare a written dissertation covering the research. Students in the Ph.D. program must take an appropriate number of doctoral dissertation credits, but not less than 20 hours; the exact number is determined by department and/or individual requirements. The defense of the dissertation will conform to Graduate Studies general rules.

8. **Residency.** Minimum residency requirements may be satisfied by completing at the University of South Florida, beyond the master's degree or equivalent, the following: (1) the University's minimal requirement, or (2) 24 hours in one calendar year, or (3) 30 hours in no more than four semesters within a period of three calendar years. Any graduate work counted toward the fulfillment of the requirement for the Ph.D. degree after admission to candidacy must be accomplished within 5 calendar years.

**Doctor of Philosophy in Designated Engineering Field Degree**
This degree is awarded to students pursuing a program in one of the following Engineering disciplines: Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. Students receiving this degree must demonstrate a thorough foundation in the designated discipline.

**Doctor of Philosophy in Engineering Science Degree**
This program is designed to meet the needs of students who wish to pursue doctoral studies in interdisciplinary areas closely related to engineering. Generally, students in this program are expected
to gain proficiency in two disciplines: an area of science and an area of engineering. Consequently, this program is administered jointly by two departments who cooperate in monitoring the student’s program of studies, examinations, and dissertation research. To derive maximum benefit, the student’s dissertation committee should be constructed to draw on the expertise of the cooperating departments in Engineering and Natural Science or other appropriate discipline.

Basic and Interdisciplinary Engineering
These courses are of a general nature and are taken by students in various engineering disciplines.

Course Descriptions

CGN 6405 NUMERICAL METHODS IN ENGINEERING ANALYSIS (3) Application of computational and mathematical techniques and principles to advanced engineering problems. (PR: EGN 4420 or CI)

EGN 5421 ENGINEERING APPLICATIONS OF VECTOR ANALYSIS I (3) Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications. (PR: MAP 4302 or CC)


EGN 5423 NEURAL NETWORKS AND MATHEMATICAL COMMUNICATION (3) Finite fields and coding applications. Probabilities of error detection and correction. Introduction to neural networks. Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverses. (PR: EGN 4450 or CC, majors only)

EGN 5424 ENGINEERING APPLICATIONS OF COMPLEX ANALYSIS (3) Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics. (PR: MAP 4302 or CC, majors only)

EGN 5425 ENGINEERING APPLICATIONS OF ADVANCED MATRIX COMPUTATIONS (3) Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications. (PR: EGN 4450 and MAP 4302, or CC, majors only)

EGN 6245 PRINCIPLES OF SCANNING ELECTRON MICROSCOPY (3) An introduction to the Scanning Electron Microscope including sample preparation, instrumentation, interpretation of results, and applications. Material science samples will be selected for the study. Emphasis will be on individual research applications.
ESI 6247 DESIGN MODELS (3) Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems. (PR: ESI 5219 or equiv.)

Collaboration with Other Colleges and Departments
Advanced study and research challenges exist at the interfaces between engineering and other academic disciplines. Examples include surface physics and chemistry applied to semiconductor processing technology; semiconductor physics applied to VLSI and analog integrated circuit design, manufacture and quality control; chemical processing and its relation to chemical principles; environmental engineering and chemical identification of minute impurities; environmental and transportation engineering and its relation to public health and public administration; water resources engineering and geohydrology; and biomedical engineering, to name only a few. The College collaborates with other academic units of the University in research activities and selectively educates students to become proficient in such interdisciplinary fields. Degree programs associated with this effort are the M.S. in Engineering Science and the Ph.D. in Engineering Science. Some of the Centers that work with and in the College are listed below.
CENTERS

Florida Engineering Education Delivery Systems (FEEDS)
4202 E. Fowler Ave., ENB 118
Tampa, FL 33620
Located (ETB)
(813) 974-3783

Interim Director: Paul E. Givens

FEEDS is a cooperative effort among all of the institutions in the Florida State University System (SUS). Colleges of Engineering with approved graduate programs are designated as primary centers. The primary centers make courses available to engineers throughout Florida. The other SUS universities are cooperating centers and make space available for local engineers to attend classes supplied by one or more of the primary centers. Many companies elect to support an in-plant site with internal resources.

The purpose of FEEDS is to provide a transparent delivery system and communications link between graduate faculties located on campus and graduate students who are employed by Florida companies in an engineering capacity. Florida’s industrial, political, and educational leaders agree that ready access to the highest quality engineering education by professionals throughout the state plays an important role in the growth of high technology industry and in the economic and social health of all its people.

FEEDS as a delivery system is separate and distinct from the academic programs it carries to distant locations. The graduate degree which is conferred, upon completion of necessary requirements, is the same one associated with the appropriate program and department on campus. Admission and performance criteria are identical for those on- and off-campus. The system is designed to deliver as much of the academic program as is practicable at a FEEDS industrial or cooperating site.

Providing access to graduate degrees at off-campus affiliated locations is the primary purpose of FEEDS. However, access is also provided for individuals who seek only graduate courses for the purpose of professional development. Courses are available in all engineering disciplines supported at USF. Individuals are served only at a cooperating university center or at affiliated corporate sites. Corporations may contact the FEEDS Office about becoming a FEEDS site.

Admissions, Advising, and Registration Since FEEDS is a delivery system providing access to campus programs, all campus admission and performance requirements apply to distance located students. Each student registering for a course delivered through FEEDS must be admitted to one of the primary universities as a degree or non-degree student. Application for admission may be made directly to USF’s Office of Graduate Admissions or contact the FEEDS office. Prospective USF students must refer to the admissions procedures and requirements in this Catalog.

FEEDS Center and site procedures require that students registering for courses coordinate with an advisor prior to registration. All students (degree and non-degree) must register each semester for each course desired. Registration and advising occur at the remote site in most instances and registration for FEEDS sections through normal campus processes is not permitted. Contact the appropriate site director, nearest FEEDS university center, or the FEEDS Office in the College of Engineering for information, schedules and procedures.
The Center for Microelectronics Research (CMR)
4202 E. Fowler Ave., ENB 118
Tampa, FL 33620
Located (ENB 260A)
(813) 974-2096

Director: Mark Anthony

The Center for Microelectronics Research has the mission of conducting new and creative state-of-the-art research in microelectronics materials, devices and processes, design, prototyping and test; and to promote the transfer of this technology to industry and government. The Center consists of research faculty with academic appointments in either the College of Engineering or the Physics Department, a full-time engineering research staff, and research assistants who are graduate students in one of the academic departments. CMR was authorized by the State Legislature in 1986 and began major operations in 1988. CMR has rapidly grown to critical mass with twenty faculty and staff engineers, and an investment of over $5M in seven laboratory facilities. Funding for CMR comes from state, federal and industrial grants.

Investigation of design and test methodologies for very large scale integrated (VLSI) systems remains a major research focus for CMR along with research into high speed test, interconnect and rapid prototyping technologies for ULSI, wafer scale and multichip modules (MCMs). Defect Engineering in semiconductor materials is also a major component of the CMR research agenda, with specific emphasis on development of in-line monitoring techniques for next generation IC fabrication, and on materials technology for flat-panel poly-silicon display systems. For more information contact CMR.

Center for Urban Transportation Research (CUTR)
4202 E. Fowler Ave., CUT 100
Tampa, FL 33620

Located (CUT)
(813) 974-3120

Director: Gary Brosch

Established in 1988, CUTR is a nationally recognized State- and grant-funded research center established to find innovative and implementable solutions to transportation problems. Its multidisciplinary staff includes 38 full-time researchers from the fields of economics, engineering, planning, geography, anthropology and public administration who integrate analytical capabilities with "real world" experience to provide technical support, policy analysis, and research support to a variety of public and private organizations and agencies in Florida and the U.S.

CUTR is designated a National Urban Transit Institute by the U.S. Congress, which allows for $1 million funding per year for the study of national transportation policy issues by a consortium lead by CUTR, which includes Florida A&M University, Florida International University, and Florida State University. State and grant research funding currently exceeds $5 million annually.

CUTR offers graduate students in economics, engineering, and public administration a certificate in transportation after completing a set of core courses. Graduate students from diverse educational backgrounds such as engineering, economics, geography, and public administration who have an interest in transportation are employed as assistants to aid ongoing research of the center.
Southern Technology Applications Center (STAC)
4202 E. Fowler Ave., ENB 118
Tampa, FL 33620
Located (TR 3)
(813) 974-4222

Director: W. Les Cahoon

The Southern Technology Applications Center (STAC) is an integral part of the National Technology Transfer Network and operates as the NASA Southeast Regional Technology Transfer Center. Created by NASA and the State University System of Florida, STAC has evolved into a regional, full-service technology transfer network of technology and business assistance resources. STAC provides linkages with a wide range of university, government, and industry organizations to assist clients in obtaining and applying technology and expertise to produce technological innovation on all scales and be competitive in the marketplace. One of STAC's primary missions is to facilitate private sector access to and commercialization of the $22 billion per year research and development efforts of the federal government.

Resources and problem-solving capabilities offered includes on-line information research, analysis and report preparation, patent and trademark searches, expert and facilities locating, market analysis, commercialization assistance, and technology transfer training. Assistance is provided in participating in federally funded technology programs such as the Small Business Innovation research and Advanced Technology programs. Fees are charged for some services.

Florida's southwest region is served by the STAC office located in the College of Engineering at the University of South Florida.
Chemical Engineering (ECH)

4202 E. Fowler Avenue, ENB 118
Tampa, FL 33620
(located ENG 246)
(813) 974-3997

WebAddress: http://www.eng.usf.edu/CE/chemeng.html

Chairperson: Luis H. Garcia-Rubio
Program Director: Aydin K. Sunol


Degrees Offered: M.S.Ch.E., M.Ch.E., M.E., M.S.E.S., Ph.D.

Specializations: Chemical Engineering, Engineering Science, Master of Engineering (professional, non-thesis)

The Chemical Engineering Department offers graduate degrees leading to M.S. and Ph.D. in Chemical Engineering. The professional non-thesis degree, Masters in Engineering is also available. Beyond the University requirements, the expected composite GRE score for admission is 1200 (Analytical plus Quantitative) for M.S. and 1300 for Ph.D. In addition to the University requirements, all Ph.D. candidates must have a paper on dissertation accepted, in an appropriate refereed journal, before graduation.

The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the COLlege of Medicine, Venter of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior. In addition, the departmental faculty has ongoing projects utilizing several College and University facilities.
Course Descriptions

ECH 5285 TRANSPORT PHENOMENA (3) Basic descriptive equations of fluid, heat, and mass transport. Description and solution to intermediate problems, including unsteady state and multidimensional systems. Estimation of transport and convective coefficients. (PR: Senior or GS in Engineering)

ECH 5320 ENVIRONMENTAL REACTING SYSTEMS (3) Application of chemical reaction engineering principles to problems in environmental engineering. Basic chemical kinetics and the modeling of batch and continuous systems. Applications will include containment fate and transport and remediation.

ECH 5324 AUTOMATIC PROCESS CONTROL II (3) Root Locus and Frequency Response Methods. Ratio, Cascade, Feedforward, Selective, Override and Multivariable Control. Z-transforms and discrete controllers including PID, Dahlin and dead time compensation. 2 hrs lec., 3 hrs. lab/week. (PR: ECH 4314 or CI, majors only)

ECH 5740 THEORY AND DESIGN OF BIOPROCESSES (4) Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems. (Open to majors and nonmajors, CI)

ECH 5742 PHARMACEUTICAL ENGINEERING (2) Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices. (PR: Senior or GS in Engineering or CI).

ECH 5746 INTRODUCTION TO BIOMEDICAL ENGINEERING (3) Introduction to biomedical engineering, including transport phenomena in biomedical systems, biomaterials, biomedical instrumentation, prosthetic devices, and clinical engineering.

ECH 5747C SELECTED TOPICS IN BIOTECHNOLOGY (1-3) Selected topics in chemical biotechnology, including pharmaceutical engineering, immobilized enzyme technology, food engineering, and fermentation. Open to majors and non-majors with CI. May be repeated for credit as subjects vary. (PR: Senior or Graduate in Engineering or CI).

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3) Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. Rpt. as subjects vary. (PR: GS in Engineering)

ECH 5820 PRODUCT DEVELOPMENT (2) Introduction to the development of consumer products, including the history of innovation, creativity development, the product development environment, and a detailed examination of several product areas. (PR: Senior or GS in Engineering or CI)

ECH 5910 DIRECTED RESEARCH IN BIOENGINEERING (1-3) Directed research in an area of biomedical engineering or engineering biotechnology. (PR: CI)

ECH 5930 SELECTED TOPICS III (1-4) (PR: CI)
ECH 5931 SELECTED TOPICS IV (1-4) (PR: CI)

ECH 6105 ADVANCED THERMODYNAMICS I (3) Selected topics in classical and irreversible thermodynamics. (PR: CC, Majors only)

ECH 6107 SELECTED TOPICS IN ADVANCED THERMODYNAMICS (3) Advanced selected topics in Ch.E. Thermodynamics such as: molecular and statistical thermo, adv. phase and chemical equilibria, etc. (PR: GS or CI)

ECH 6230 ADVANCED MASS TRANSFER (3) Advanced topics in mass transfer, including the mathematical description and solution of homogeneous and heterogeneous reacting systems, unsteady state, simultaneous heat and/or fluid transfer, particulate processes, and interfacial transport. (PR: ECH 5285 or equiv.)

ECH 6412 PROCESSES ANALYSIS AND MODELING (3) Computer-controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes. (PR: CI)

ECH 6515 REACTING SYSTEMS (3) Economic factors in the design of chemical reactors. Simulation of complex reacting systems. (PR: ECH 4415C or CI)

ECH 6616 COMPUTER-AIDED PROCESS ENGINEERING I (3) Plant and process design with emphasis on computer-aided design. (PR: ECH 4615 or CI)

ECH 6749 BIOMATERIALS AND BIOCOMPATIBILITY (3) Physical and chemical properties of biomaterials, failure mechanisms, performance in vivo, interfacial phenomena and biocompatibility, including host response to implants. Also will discuss the regulatory aspects of biomaterials. (PR: CI)


ECH 6907 INDEPENDENT STUDY - VARIABLE TITLE (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: GR)

ECH 6930 SPECIAL PROBLEMS I (1-3) (PR: CC)

ECH 6931 SPECIAL PROBLEMS II (1-3) (PR: CC)

ECH 6938 GRADUATE INSTRUCTION METHODS (1-4) Special course to be used for training of graduate teaching assistants. Var. Rpt. to a total of 4 hours. S/U. (PR: CC)

ECH 6939 GRADUATE RESEARCH METHODS (1-4) Special course to be used for training of graduate research assistants. Var. Rpt. to a total of 4 hours. S/U. (PR: CC)

ECH 6971 THESIS: MASTER'S (1-19 Var.) (PR: CC)


ECH 7980 DISSERTATION: DOCTORAL (1-19 Var.) (PR: Admission to Candidacy)
EML 5395 MOTOR SELECTION AND CONTROL (3) Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection; starting and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices. (PR: ENG 3373, EGN 3433)

EML 6145 NUMERICAL METHODS IN HEAT TRANSFER (3) Application of finite difference and finite element techniques to problems of conduction and convection. Cartesian, cylindrical and spherical systems. Steady and transient solutions. (PR: CI)

EML 6154 ADVANCED CONDUCTION ANALYSIS (3) Multi-dimensional heat transfer. Emphasis on solution techniques, exact and numerical. (PR: CI)

EML 6157 RADIATION (3) Review of basic principles of radiation, grey bodies and real surfaces, calculation of shape factors, absorbing gases. (PR: CI)
Civil and Environmental Engineering (EGX)

4202 E. Fowler Avenue, ENB 118
Tampa, Fl 33620
(located ENG 139)
(813) 974-2275
e-mail address: burggraf@eng.usf.edu
WebAddress: http://www.ce.eng.usf.edu

Chairperson: William C. Carpenter
Program Director: Jian Lu

Faculty: Melvin W. Anderson, Alaa K. Ashmawy, Robert P. Camahan, William
C. Carpenter, James F. Devine, Wayne F. Echelberger, Jr., J. Tom Franques, J.E. Griffith*,
Manjriker Gunaratne, Stanley C. Kranc, Jian J. Lu, A.Grey Mullins, Robert J. Murphy,
Mahmood Nachabe, Karim Nohra, Ram M. Pandyala, Bernard E. Ross*, Mark A. Ross,
Alberto Sagues, Rajan Sen, Dan Smith, Richard I. Stessel, Alba Zayed

*Professors Emeritus

Degrees Offered: M.S.E., M.S.C.E., M.S.E.V., M.C.E., M.E.V.E., Ph.D.
Civil Engineering (M.C.E., M.S.C.E)
Engineering (M.E., MSE)
Environmental Engineering (M.E.V.E., M.S.E.V.)
Doctor of Philosophy (Ph.D.).

Specializations: Engineering Mechanics, Environmental Engineering, Geotechnical
Engineering, Graduate Certificate in Solid and Hazardous Waste
Management (refer to the Graduate Certificate Listing for information) Materials Engineering and Science, Structural
Engineering, Transportation Engineering and Planning, and Water
Resources Engineering

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new
technological needs of society. The traditional areas of public works, such as highways, bridges,
water supply, building design, and wastewater treatment, remain very important. In addition,
the modern area of managing the environment has been included in the Civil Engineering domain.
Graduates of the programs are prepared for careers with public agencies or private industry and
firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students, In addition, the
department has a variety of microcomputers available for student use. The department has a
high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also
well equipped environmental, soils, and hydraulics laboratories. These laboratories include
equipment such as an ion chromatograph, atomic absorption unit, environmental chamber,
constant rate of stress consolidometer, and triaxial units.
Master of Science (M.S.C.E., M.S.E., and M.S.E.V.)

The MSCE, MSE, and MSEV are research oriented degrees in which the student writes, as a major part of the degree requirements, a thesis that defines, examines, and reports in depth on a subject area relevant to engineering. The purpose of the thesis is to instill in the student the ability to inspect, evaluate, and report on a subject of interest to the engineering profession. The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis. Students in the environmental engineering program may receive either the MSEV degree or one of the other MS degrees. Students in the other degree programs or environmental engineering student who do not opt to receive the MSEV degree will receive the MSCE degree if they have an undergraduate degree in Civil Engineering, or the MSE degree, if they do not.

Additional Admission Requirements
1. Applicants must have at least a 2.7/4 GPA on their last 60 hours of course work;
2. Applicants must have a score of 400 on the Verbal portion of the GRE, and a combined score of 1000 on the sum of the verbal and quantitative portions of the exam.
3. Applicants without an engineering degree may be considered on an individual basis but will have to complete prerequisite work as specified in the department’s Graduate Brochure before being considered as degree candidates.

Master of Engineering (M.C.E., M.E., and M.E.V.E.)

The MCE, ME, and MEVE degrees provide a student with the opportunity to earn the advanced degree by coursework only. The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours. Students in Environmental Engineering may receive either the MEVE degree or one of the other Master of Engineering degrees. Students in other degree programs or environmental engineering students who do not opt to receive the MEVE degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering, or the ME degree if they do not. The MCE and ME degrees are intended for students who have at least two years of civil engineering related work experience prior to completion of degree requirements. The work experience should include the preparation of engineering reports. The student’s graduate committee may require documentation of report writing ability before approving this degree. These degrees are recommended for part-time students who find it difficult to do thesis research because of their work commitment. All of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

Additional Admission Requirements
1. Applicants must have at least a 2.7/4 GPA on their last 60 hours of course work;
2. Applicants must have a score of 400 on the Verbal portion of the GRE, and a combined score of 1000 on the sum of the verbal and quantitative portions of the exam.
3. Applicants without an engineering degree may be considered on an individual basis but will have to complete prerequisite work as specified in the department’s Graduate Brochure before being considered as degree candidates.
Doctor of Philosophy

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Ph.D. students may work in all of the areas of Civil Engineering: Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Materials Engineering and Science, Structural Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

Additional Admission Requirements
1. Applicants must have at least a 2.7/4 GPA on their last 60 hours of course work;
2. Applicants must have a score of 400 on the Verbal portion of the GRE, and a combined score of 1000 on the sum of the verbal and quantitative portions of the exam.
3. Applicants without an engineering degree may be considered on an individual basis but will have to complete prerequisite work as specified in the department’s Graduate Brochure before being considered as degree candidates.

Centers and Programs

Center for Environmental Studies and Engineering (CESE)
4202 E. Fowler Ave., ENB 118
Tampa, FL 33620
Located ENG 214
(813) 974-5846

Director: Audrey Levine

The Center is headquartered in the department; however, its significant strength is the diversity of additional participants from the Departments of Chemical Engineering, Biology, Chemistry, Geology, and Environmental and Public Health. Faculty work together on distinctive research projects, and this interdisciplinary approach gives students a unique breadth of experience. Cooperative efforts extend to course and program offerings that educate students in the wide variety of fields that are integral to environmental management.

Center for Modeling Hydrologic and Aquatic Systems (CMHAS)
4202 E. Fowler Ave., ENB 118
Tampa, FL 33620
Located ENG 307
(813) 974-5836

Director: Mark Ross

The Center is an integral part of the Department. Formerly the Center for Mathematical Modeling, the Center has contributed significantly to research and understanding of Florida water resources since the early 70’s. The Center’s charge is to perform fundamental and applied research towards developing, maintaining, and upgrading state-of-the-art mathematical models used to study, design, and manage hydraulic, hydrologic and receiving water (inland and coastal) systems. Undergraduate and graduate students actively participate in this research while pursuing
degrees in water resources disciplines of civil engineering, hydrogology, environmental science and other related fields. In cooperation with Engineering Computer Services, the Center maintains the most up-to-date computational resources (hardware and software) available for student use. The Center also maintains a comprehensive water resources library and on-line database of hydrologic information from federal, state, and local agencies.

**Graduate Interdisciplinary Transportation Program**

The Department of Civil and Environmental Engineering, jointly with the Department of Economics and the Public Administration program, and in cooperation with the Center for Urban Transportation Research, offers an interdisciplinary transportation program designed for graduate students in civil engineering, economics, and public administration who desire a better understanding of transportation issues or who plan careers that involve helping solve transportation problems. The students accepted into the program enroll in a common set of core courses that address transportation issues. A common body of knowledge is thereby developed among the disciplines and each student acquires expertise in all three disciplines. Tomorrow's transportation issues will become more and more complex and require an increasing diversity of skills. It is the goal of this program to provide students with the diversity of skills and an understanding of the expertise and methodologies that the civil engineering, economics and public administration disciplines have to offer to the transportation field.

To participate in the program, each student must first be admitted to the master's degree program in civil engineering, economics or public administration. A limited number of research assistantships are awarded to program participants each year by the sponsoring departments and by the Center for Urban Transportation Research. For information, contact Civil Engineering at (813) 974-2275, Economics at (813) 974-4252, Public Administration at (813) 974-2510, or the Center for Urban Transportation Research, (813) 974-3120.

**Graduate Certificate in Solid and Hazardous Waste Management**

Students wanting to focus their graduate study in the area of solid and hazardous waste management may pursue the Certificate of Concentration in Solid and Hazardous Waste Management, which is awarded after completion of the Certificate of Concentration requirements and the Master's or Doctoral degree in the student's home department. This is an interdisciplinary program that supplements Departmental requirements to give the student unique understanding of this area. Further information is available from the Department.

**Course Descriptions**

CEG 5115 FOUNDATION ENGINEERING (3) Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered. (PR: CEG 4011 or CI)

CEG 5205 LABORATORY TESTING FOR GEOTECHNICAL ENGINEERS (3) Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design. (PR: CEG 4011 or CI)

CEG 6210 DEEP FOUNDATIONS (3) Statics and dynamic load capacity of piles, settlement of piles, pile group analysis, laterally loaded piles, pile installation, monitoring of driving and pile load tests. (PR: CEG 5115)
CEG 6219  DESIGN OF STRUCTURES TO RESIST NATURAL HAZARDS (3) Study of natural hazards (wind, earthquakes & ocean waves) and their interaction with structures. Use of exact and approximate methods of analysis, computer modeling, and design provisions for structures to resist the aforementioned loads.

CEG 6320  SOIL DYNAMICS (3) Fundamentals of vibrations, wave propagation, design of foundations, retaining walls and slopes to resist vibrations, liquefaction of soils. (PR: CEG 4011, CEG 4011L, CEG 4012)

CEG 6415  SEEPAGE AND SUBSURFACE DRAINAGE (3) Design of underdrains, wells, soil filters, fabric filters, and dewatering systems with special emphasis on case studies. (PR: CEG 4011 or CI)

CEG 6540  ADVANCED GEOTECHNICAL TOPICS (3) Advanced concepts of shear strength and consolidation of soils; slope stability, nonlinear and secondary consolidation, numerical methods. (PR: CEG 4011, CEG 5205)

CEG 6586  DESIGN OF CONTINUOUS POST-TENSIONED STRUCTURES (3) Methods of analysis and design of post-tensioned statically indeterminate structures. Emphasis will be on the design of two-way slabs for floor systems using the equivalent frame method and load balancing.

CES 5105C  ADVANCED MECHANICS OF MATERIALS I (3) Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beam theory, introduction to theories of elasticity, and bending of thin plates. (PR: EGN 3331, MAP 4302)

CES 5209  STRUCTURAL DYNAMICS (3) Behavior of structural components and systems when subjected to periodic dynamic loads. (PR: CES 3102, EGN 3321)

CES 5715C  PRESTRESSED CONCRETE (3) Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications. (PR: CES 4702, CI, majors only)

CES 6107C  ADVANCED MECHANICS OF MATERIALS II (3) Continuation of CES 5105C. Structural stability of beam-columns and frames, calculus of variations and energy methods, introduction to viscoelasticity and plasticity. (PR: CES 5105C)

CES 6116  FINITE ELEMENT METHODS I (3) Finite element methods in solid mechanics. Applications to beams, frames, trusses, and plane stress and plane strain problems. Theory and computer modeling are covered. (PR: CI)

CES 6117  FINITE ELEMENT METHODS II (3) Finite element methods in continuum mechanics. Theory and computer modeling of linear and non-linear problems are covered. Topics include large deflection problems, plasticity, creep, heat transfer, plates and shells, stability and dynamics. (PR: CES 6116)

CES 6218  STRUCTURAL STABILITY (3) Elastic and inelastic stability of trusses and frames, local buckling of structural members and plates. (PR: CES 5105C, CI)
CES 6326 DESIGN OF CONCRETE BRIDGES (3) Bridge Classification, AASHTO loads and load combinations, load distribution, design of typical superstructures and substructures for concrete and prestressed bridges. (PR: CES 4702, CI)

CES 6609 ADVANCED STEEL DESIGN (3) Advanced topics in steel design. Topics covered include connection design, torsion of wide range sections, and optimum structural design. (PR: CES 4605)

CES 6726 ADVANCED CONCRETE DESIGN (3) Advanced topics in concrete designs. Topics include torsion two way floor systems, composite construction, slabs on grade, and deep beams. (PR: CES 4702, CI)

CGN 5509 CORROSION CONTROL (3) Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

CGN 5933 SPECIAL TOPICS IN CIVIL AND ENVIRONMENTAL ENGINEERING (1-5) New technical topics of interest to civil engineering students. Rpt. up to 6 hours. (PR: CI, majors only)

CGN 6305 OPTIMIZATION TECHNIQUES IN CIVIL ENGINEERING (3) Theory and application of optimization techniques to the planning, design and operation of civil engineering systems. (PR: CI)

CGN 6906 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: CI)


CGN 6933 SPECIAL TOPICS IN CIVIL AND ENVIRONMENTAL ENGINEERING (1-4) (PR: CI, majors only)

CGN 6939 CIVIL ENGINEERING AND MECHANICS SEMINAR (1-4) (PR: CC)

CGN 6941 GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Var. Rpt. to a total of 5 credits. S/U. (majors only)

CGN 6945 GRADUATE RESEARCH METHODS (1-5) Special course to be used primarily for the training of graduate research assistants. Var. Rpt. to a total of 5 credits. S/U (Majors Only)

CGN 6971 THESIS: MASTER'S (1-19 Var.) (PR: ML)

CGN 7915 DIRECTED RESEARCH (1-19 Var.) Rpt. S/U. (PR: G, Ph.D. level, majors only)

CGN 7980 DISSERTATION DOCTORAL (1-19 Var.) S/U (PR: Admission to Candidacy, majors only)
CWR 6209 HYDRODYNAMIC MODEL (3) St. Vennant Equations for unsteady flow in open channels; implicit and explicit solution techniques. The use of hydrodynamic modeling for stormwater planning and design. Transport-diffusion equations and finite difference solutions.

CWR 6538 ADVANCED HYDROLOGIC MODELING (3) To present the theoretical and applied concepts of advanced hydrologic modeling and especially integrated surface water/ground water modeling and to examine various numerical hydrologic models used in engineering practice. (PR: CWR 6535 and GLY 6739)

CWR 6235 FREE SURFACE FLOW (3) Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow, and open channel design. (PR: CWR 4202 or CI)

CWR 6239 WAVES AND BEACH PROTECTION (3) A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures. (PR: CWR 6820)

CWR 6305 URBAN HYDROLOGY (3) A study of the quantity and quality problems and solution techniques associated with urban runoff. (PR: CWR 6535 or CI)

CWR 6534 COASTAL AND ESTUARY MODELING (3) Digital modeling of coastal and estuary systems, currents tide heights, sediment transport, erosion, data collection, temperature distribution, source and sinks. Special emphasis on Florida regions. (PR: CI)

CWR 6535 HYDROLOGIC MODELS (3) A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models. Students will be required to develop and apply computer models. (PR: CWR 4103 or CI)

CWR 6545 WATER RESOURCES SYSTEMS (3) Planning, design, and operation of water resources by the use of systems analysis and operations research techniques. (PR: CI)

CWR 6820 COASTAL WAVES AND STRUCTURES (3) Fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included. (PR: CI)

EGM 6656 THEORY OF ELASTICITY (3) Classical and contemporary elasticity theory with applications to engineering problems. (PR: CES 6116)

EGM 6796 PLATES AND SHELLS (3) Elastic behavior of thin plate and shell structures. (PR: CI)

EGM 6814 ADVANCED FLUID MECHANICS (3) Formulation and analysis of problems in the flow of viscous and nonviscous fluids including Newtonian and non-Newtonian flows. Mathematical methods and techniques of solutions. (PR: CWR 4202, majors only)

ENV 5105 AIR RESOURCE MANAGEMENT (3) Air pollution source impacts on ambient air quality, modeling, regulatory approaches, source strategic controls and surveillance. (PR: CI)

ENV 5345 SOLID AND HAZARDOUS WASTE CONTROL (3) Introduction to solid and hazardous waste management; regulatory concepts, waste types and quantities, and waste collection. Disposal techniques, facility siting, volume reduction, landfill design, incineration and heat recovery, contaminant generation and transport, and remedial action. (PR: CI, majors only)
ENV 5614 ENVIRONMENTAL RISK ANALYSIS (3) Study of comprehensive application of risk analysis techniques for environmental control and protection purposes. (PR: CI, majors only)

ENV 6334 REMEDIAL ACTION IN ENVIRONMENTAL ENGINEERING (3) Covers the clean-up of sites contaminated with hazardous waste. Begins with regulations and related definitions; follows with the objectives of remedial action and site investigations. Focuses on the unique aspects of the implementation of treatment technologies in situ on site, and off-site. (PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only)

ENV 6347 SOLID AND HAZARDOUS WASTE PROCESSING AND TREATMENT (3) Advanced management concepts including: thermal, chemical, and biological treatment, waste-to-energy, and resource recovery. (PR: CI, majors only)

ENV 6438 NATURAL AND SMALL SCALE TREATMENT SYSTEMS (3) A study of the theory, analysis of natural aquatic systems to treat wastewater. Emphasis is on use of treated and partially treated wastewater or residues to enhance, restore, or create wetlands, as well as land application. (PR: CI)

ENV 6519 ADVANCED PHYSICAL/CHEMICAL PROCESSES (3) Theory and design of processes used in advanced water and wastewater treatment, including membrane processes, absorption, electrodialysis, ozonation, irradiation. (PR: CI, majors only)

ENV 6539 SLUDGE TREATMENT & DISPOSAL (3) Examines the physical, chemical, and biological unit operations and processes utilized in treating and disposing of sludges produced at water and wastewater treatment facilities. (PR: CI, majors only)

ENV 6558 INDUSTRIAL AND HAZARDOUS WASTE TREATMENT (3) Industrial waste surveys; contemporary industrial wastewater treatment and control methods; characteristics of industrial wastes and their effects on receiving streams. (PR: CI, majors only)

ENV 6666 AQUATIC CHEMISTRY (3) An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater. (PR: CI, majors only)

ENV 6667 WATER QUALITY FOR ENGINEERS II (3) Study of biochemical relations and processes in treatment of pollutants with emphasis on control of effluents for the protection of water quality. (PR: CI, majors only)

TTE 5205 TRAFFIC SYSTEMS ENGINEERING (3) Traffic models, intersection analysis, capacity analysis, data collection methods, parking studies, volume and speed studies, freeway management, and advanced technologies.

TTE 5501 TRANSPORTATION PLANNING & ECONOMICS (3) Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation and choice of transportation alternatives. (PR: College Algebra, & CI).
TTE 6205 TRAVEL DEMAND MODELING (3) Statistical modeling of travel demand for travel demand forecasting; emphasis on trip generation and trip chaining. (PR: TTE 5501)

TTE 6210 DISCRETE CHOICE MODELS OF TRAVEL BEHAVIOR (3) Theories of Travel Behavior; multinomial logit and nested logit models of mode choices, destination choice, and car ownership. Theory and application to travel forecasting. (PR: TTE 5501)

TTE 6270 INTELLIGENT TRANSPORTATION SYSTEMS (3) ITS architecture design and evaluation, simulation and modeling, advanced traffic management systems, traveler information systems, vehicle control systems, commercial vehicle operations, public transportation systems, and telecommunications. (PR: TTE 5205)

TTE 6315 TRANSPORTATION SAFETY (3) Transportation safety studies, accident data analysis, traffic safety control devices, special population regiment safety, highway conflict studies, accident reconstruction, and tort and liability issues. (PR: TTE 5205)

TTE 6405 TRANSPORTATION AND LAND USE (3) Relationships between transportation and land use, coordinated transportation and land use planning, theory of urban development, urban sprawl, integrated transportation and land use models, transportation friendly urban design, and accessibility.

TTE 6410 PUBLIC TRANSPORTATION (3) Planning, design and operation of public transportation systems; costs and productivity of transit; impacts of transit on travel behavior and urban form; ridership forecasting; public transportation policy analysis.

TTE 6835 PAVEMENT DESIGN (3) Analysis of flexible and rigid pavements, equivalent single wheel loads, pavement materials and their properties, pavement evaluation, reliability, flexible and rigid pavement design, overlay design, pavement life-cycle cost analysis. (PR: TTE 4005 or equivalent)

TTE 6837 PAVEMENT MANAGEMENT SYSTEMS (3) Review of flexible and rigid pavement design, overlay design; pavement evaluation, pavement network delineation, condition prediction models, pavement maintenance and rehabilitation, pavement management techniques, life-cycle cost analysis. (PR: TTE 4005 or Equivalent)

TTE 6930 GRADUATE TRANSPORTATION SEMINAR (1) Seminars, presentations, and discussions of contemporary transportation issues. S/U (PR: Majors only)
Computer Science and Engineering (ESB)

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Chairperson: Abraham Kandel
Program Director: Dmitry Goldgof

Faculty: Samuel Al-Arian, Kevin Bowyer, Kenneth Christensen, Martha Escobar-Molano, Eugene Fink, Dmitry Goldgof, Lawrence Hall, Abraham Kandel, Wac-Kei Mak, Peter Maurer, Robin Murphy, Rafael A. Perez, Les Piegl, N. Ranganathan, Dewey Rundus, Sudeep Sarkar, Murali R. Varanasi.

Degrees Offered: M.S.Cp.E., M.Cp.E., M.S.C.S., M.C.S., Ph.D.
Computer Science (M.S.C.S. {thesis}, M.C.S. {non-thesis})
Computer Science and Engineering (Ph.D.)

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. An excellent selection of courses and laboratories support undergraduate and graduate studies in computer engineering, VLSI Design and Test, software engineering, neural networks, computer networks, computer databases, computer system organization, fault-tolerant computing, artificial intelligence, robotics, theory of computation, coding theory, expert systems, human/computer interaction, computer vision, image processing, and computer graphics.

In addition to the vast array of college-wide computer facilities, the Department's facilities include an open-access computer laboratory equipped with SUN SPARC, SGI and DEC workstations, image processing workstations, an Intel Hypercube of 16 nodes and a substantial number of graphics-oriented personal computers. There are specialized laboratories for research in Artificial Intelligence, Computer Graphics, VLSI design, Computer Vision, Software Engineering, Computer Graphics, and Database/computer networks. These laboratories are each equipped with workstations and other specialized hardware. The college-wide network consists of a number of SUN servers, workstations, and PCs in various configurations. In addition, the University operates a large IBM Mainframe, which is available for the Department's instructional and research purposes.

Graduate students will find that their studies and research prepare them for making contributions in the computer field. Research interests of the department's faculty are diverse, including such areas as distributed computer networks and reliable computing, artificial intelligence, databases, fuzzy logic, machine learning, image processing, computer architecture, computer-aided design, software engineering, user interface design, computer vision, graphics, application-oriented VLSI architectures, and coding theory. Consequently, students have a wide range of research areas available for theses and projects. Many graduate courses offered by the department are available to practicing engineers through the FEEDS (Florida Engineering Education Delivery System) program.
Course Descriptions

CAP 5400 DIGITAL IMAGE PROCESSING (3) Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression. (PR: EEL 4851C or GS)

CAP 5625 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3) Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies. (PR: EEL 4851C)

CAP 5682 EXPERT AND INTELLIGENT SYSTEMS (3) Basic concepts, techniques and tools for the design and implementation of expert intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems. (PR: EEL 4851C, CI or GS)

CAP 6100 HUMAN COMPUTER INTERFACE (3) Introduction to the design and evaluation of interface between a computer based application and a human user. (PR: CI)

CAP 6415 COMPUTER VISION (3) Techniques for description and recognition of objects, use of stereo, texture, and motion information for scene segmentation and description, consistent labeling and matching, use of knowledge and planning in computer vision. (PR: CAP 5400)

CAP 6615 NEURAL NETWORKS (3) Defines models of artificial neural networks, compares these models, and investigates the relationship of neural network learning to other symbolic learning methods. (PR: CAP 5600, CI)

CAP 6638 GEOMETRIC/STATISTICAL PATTERN RECOGNITION TECHNOLOGY (3) (PR: CI)

CAP 6672 ROBOT INTELLIGENCE AND COMPUTER VISION (3) An introduction to robotic systems with emphasis on the computational aspects of robot control. Topics for discussion: overview of the robotics field, analysis of robot arm kinematics and coordinate transformation, real-time computer control of robot arms, and computer vision. Practical experience in programming robotic systems will be included. (PR: COP 4400 or equiv.)

CEN 6016 SOFTWARE ENGINEERING I: BASIC PRINCIPLES AND FORMAL METHODS (3) Basic principles and formal methods for systematic development of software systems. Software life cycle, formal specifications, design, verification, and reliability analysis. (PR: EEL 4851C)

CEN 6017 SOFTWARE ENGINEERING II: TOOLS AND APPLIED TECHNIQUES (3) Tools and cost-effective techniques for requirements, specifications and analysis, module specification, design and integration, verification and validation, maintenance and project management. (PR: CEN 6010, majors only)

CIS 6900 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment. S/U. (PR: GS, majors only)

CIS 6910 COMPUTER SCIENCE GRADUATE PROJECT (3) Computer science engineering project that may be taken by graduate students in place of Master’s thesis. Requires completed contract prior to enrollment. S/U. (PR: CI, majors only)

CIS 6930 SPECIAL TOPICS (3) (PR: CI)


CIS 6940 GRADUATE INSTRUCTION METHODS (1-4) Special course to train graduate teaching assistants. Var. Rpt. to a total of 4 credits. S/U. (Majors only)

CIS 6971 THESIS: MASTER’S (1-19 Var.) S/U (PR: GS, majors only)

CIS 7910 DIRECTED RESEARCH (1-19 Var.) Rpt. Requires completed contract prior to enrollment. S/U. (PR: GR. Ph.D. level, majors only)

CIS 7980 DISSERTATION: DOCTORAL (1-19 Var.) Rpt. (PR: Admission to Doctoral Candidacy)

COP 6611 OPERATING SYSTEMS (3) Operating systems functions and design, resource management, protection systems, process communication, and deadlocks. (PR: CC, majors only)

COP 6621 PROGRAMMING LANGUAGES AND TRANSLATION (3) Grammars and languages, symbols, strings, syntax, parsing, the design of a compiler, storage organization and symbol tables, translator writing systems. (PR: CI, majors only)

COT 6405 INTRODUCTION TO THE THEORY OF ALGORITHMS (3) Analysis techniques for algorithms. Characterizing algorithms in terms of recurrence relations, solution of recurrence relations, upper and lower bounds. Graph problems, parallel, algorithms, Nondeterministic Polynomial time Completeness and approximation algorithms, with relationship to practical problems. (PR: COT 3100, COT 4400, or equiv., GS or CI)

EEL 5771 INTRODUCTION TO COMPUTER GRAPHICS I (3) An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages. (PR: CC)

EEL 6522 INFORMATION THEORY (3) Concepts of information, information channels, channel capacity, information sources and Shannon’s fundamental theorem, and error correcting codes. (PR: CI, majors only)

EEL 6706 TESTING AND FAULT TOLERANCE IN DIGITAL SYSTEMS (3) Test generation for combinational and sequential digital circuits, fault analysis and diagnosis. Methods for reliability improvement through fault tolerant and testable circuit design. Introduction to software reliability. (PR: CC)
EEL 6707 ADVANCED DIGITAL SYSTEMS (3) Principles of combinational circuit analysis, duality, hazards, IC gates, circuit design. Analysis of fundamental mode sequential circuits, sequential circuit synthesis, design for testability, using MSI and standard cells. Register transfer design and hardware description languages. (PR: EEL 4705 or equivalent)

EEL 6764 PRINCIPLES OF COMPUTER ARCHITECTURE (3) Arithmetic algorithms, CPU speedup techniques, memory hierarchies, virtual memory, input-output. Study of the number systems and the algorithms used for digital arithmetic computation with emphasis on their implementation, speed and reliability considerations. (PR: CDA 4100 or CI)

EEL 6766 ADVANCED COMPUTER ARCHITECTURE (3) Control unit and microprogramming, reduced instruction set computers (RISC), object oriented systems, multiprocessor systems, supercomputers. The macrostructure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers. (PR: EEL 6764 or CI)

EEL 6773 RASTER GRAPHICS (3) Advanced course covers the methods of representing three dimensional objects in the plane of the graphics screen and the hardware and software required for their processing. (PR: EEL 5771 or CI, majors only)

EEL 6846 CODING THEORY (3) Error-correcting codes, algebraic block codes, linear codes and feedback shift registers; BCH codes; convolutional codes; burst error codes; arithmetic codes; decoding methods. (PR: EEL 6522)
Electrical Engineering (EEL)

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Chairperson: Elias K. Stefanakos
Program Director: Kenneth Buckle

Faculty: Mark Anthony, Kenneth Buckle, Charles T. Chen, Yun-Leei Chiou, M.R. Donaldson*,
Lawrence P. Dunleavy, Chris Ferekides, Paul G. Flikkema, Samuel J. Garrett, Andrew
Hoff, Horace C. Gordon, Rudolf E. Henning***, Vijay K. Jain**, Firman D. King,
Michael G. Kovac, James T. Leffew, Herschel Marchman, Don L. Morel, Wilfredo A.
Moreno, Ravi Sankar, Arthur D. Snider, Elias K. Stefanakos, Thomas E. Wade, Thomas
Weller, Paris H. Wiley
*Chairperson Emeritus **Distinguished Research Professor
***Distinguished Service Professor

Degrees Offered: M.S.E.E., M.S.E, M.S.E.S, M.E., M.E.E., Ph.D.

Specializations: Digital architectures and design; circuits, controls, and systems;
communications and signal processing; microelectronics; wireless circuits
and systems; and electric power systems.

Graduate Certificate in Wireless Transmission (refer to Graduate Certificate
listing for information)

The Department of Electrical Engineering of the University of South Florida offers degrees at
the Doctoral and Master’s level. The major areas of instruction in the department are as listed
above. Occasionally projects in other areas such as modal analysis, computations, optimization,
thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the
areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and
reliability, thin dielectric films, restructurable VLSI, communications and signal processing,
and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building
II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and
devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability);
communications and signal processing (communication networks, packet switching, digital video and
HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals,
microprocessors and VLSI for signal processing); systems and controls; solid state material and device
processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave
engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

Master’s programs include options in the six major areas listed above. Other programs
may be tailored for students with special interests. Non-thesis master’s studies, comprising 33
credit hours.
Joint M.S. Degree--Physics/Engineering
See program description under Physics in College of Arts and Sciences section

Course Descriptions

EEL 5250 POWER SYSTEM ANALYSIS (3) Analysis techniques for AC power systems.

EEL 5344C DIGITAL CMOS/VLSI DESIGN (3) Design, layout, simulation, and test of custom digital CMOS/VLSI chips, using a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops, CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.

EEL 5356 INTEGRATED CIRCUIT TECHNOLOGY (3) Physics and chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.


EEL 5382 PHYSICAL BASIS OF MICROELECTRONICS (3) Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.

EEL 5437 MICROWAVE ENGINEERING (3) Introduction to passive and active components, devices, and circuits (including transmission lines and wave guides) employed in microwave integrated circuits and systems.

EEL 5462 ANTENNA THEORY (3) Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas, and arrays.

EEL 5572C LOCAL AND METROPOLITAN AREA NETWORKS (3) Basics of data communication exchange of digital information over communication media; Basics of LANS/MANs and its components: media topologies, access methods, etc.; LAN/MAN architectures and protocols-IEEE 802.xLAN Standards; High speed LANs such as FDDI, IEEE 802.6 MAN, etc., Internetworking; LAN/MAN Design and selections.

EEL 5631 DIGITAL CONTROL SYSTEMS (3) Sampled data and digital control processes.

EEL 5754 MICROPROCESSOR BASED DIGITAL SIGNAL PROCESSING (3) Arithmetic systems, processing structures, efficient algorithms, DSP hardware, TI, NEC, and other DSP microprocessors; multi-processing hardware, software, and system development. Application to telecommunications.

EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III (1-3, 1-3, 1-3)  
EEL 6141, 6142, NETWORK SYNTHESIS I, II (3,3) Network functions; physical realiability, two terminal network synthesis methods, frequency transformation, potential analogy, approximation problems, insertion-loss and transfer function synthesis.
EEL 6150, 6151 ADVANCED CIRCUIT THEORY I, II (3,3) Network fundamentals; network characterization, frequency analysis; superposition integrals; signal-flow techniques, stability problems; real and imaginary relations.

EEL 6174 OPTIMAL FILTERING AND IDENTIFICATION (3) Estimation theory and development of the Kalman-Wiener filter for continuous discrete-time systems. System identification through deterministic and stochastic approaches. Application to control and communication systems.

EEL 6318 CHARACTERIZATION OF SEMICONDUCTORS (3) Electrical, optical, chemical, and physical methods used to characterize semiconductor materials and devices; includes surface and near surface spectroscopies. Available to non-majors.

EEL 6345 VLSI FOR SIGNAL PROCESSING (3) VLSI applications in signal processing and telecommunications. General purpose DSP architectures. ASIS architectures: systolic arrays, data-flow multiprocessing, wavefront arrays. Case histories: modems, echo cancelers, digital PLL, etc. High-speed arithmetic and algorithms.

EEL 6353, 6354 SEMICONDUCTOR DEVICE THEORY I, II (3,3) Theory of operation and application of circuits and devices.

EEL 6355 COMPOUND SEMICONDUCTOR TECHNOLOGY (3) Bulk crystal and epitaxial growth technologies of III-V and II-VI compound semiconductors. The properties, characterization, and device applications of these compounds will be emphasized.

EEL 6387 NOISE THEORY (3) Electrical noise and signals through linear filters and electronic systems.

EEL 6391 NOISE IN ELECTRICAL DEVICES (3) Characteristics, measurements and generation mechanisms of noise sources observed in electronic materials and devices. Materials and devices to be considered include thin and thick films, superconductors, semiconductors and semiconductor devices. (PR: EEL 6387 or Equivalent)

EEL 6434 ACTIVE MICROWAVE STRUCTURES AND DEVICES (3) Theory and design of solid state low noise and high power amplifiers, solid state oscillators and high power tubes for waveguide, coax and integrated circuit applications. (PR: EEL 5437)

EEL 6447 OPTOELECTRONICS (3) Basic principles and operations of lasers and analyses of power output and frequency pulling in laser oscillators. (PR: EEL 3410, PHY 4604)

EEL 6463 ADVANCED ANTENNA THEORY (3) Electromagnetic radiating systems studied by analytical and numerical methods.


EEL 6486C ELECTROMAGNETIC FIELD THEORY (3) Time harmonic electromagnetic fields emphasizing problems in transmission lines and electric power transmission.
EEL 6487C ADVANCED ELECTROMAGNETIC FIELD THEORY (3) Time harmonic fields emphasizing problems with exact solutions in the rectangular, cylindrical and spherical coordinate systems. Solutions by methods, Green’s functions and vector methods.


EEL 6509 SATELLITE COMMUNICATION (3) Satellite characteristics, link calculations, earth station, frequency management, large and small (mobile) earth terminals. Digital communication for satellites: modulation coding and multiple-access techniques. Examples including the INTELSAT series. (PR: EEL 6534)

EEL 6531 TELECOMMUNICATIONS I (3) Introduction to telecommunications. Telephone (voice and data), video and facsimile transmission. Intersymbol interference, adaptive equalizers, error correcting codes.


EEL 6535 COMMUNICATIONS SYSTEMS II (3) Probability of symbol error in sequence detection. Intersymbol interference; linear and decision feedback equalizers; adaptive equalization. Spectrum control and line coding. Trellis coding. Synchronization: Phase-locked loops; Carrier recovery; Symbol timing recovery. (PR: EEL 6534)

EEL 6537C APPLIED DETECTION THEORY (3) Fundamental principles of signal detection. Likelihood functions; threshold detection; parameter estimation; applications to radar, sonar and digital communication systems. (PR: EEL 6545)

EEL 6545 RANDOM PROCESSES IN ELECTRICAL ENGINEERING (3) Review of probability theory, functions of random variables; examples in electrical engineering. Sequences of random variables. Concepts in random processes, correlation functions, power spectrum, random inputs to linear systems. Spectral analysis. Applications to engineering systems.

EEL 6563 OPTICAL FIBER COMMUNICATION (3) A study of fiber-optic technology as applied to communications systems. (PR: EEL 6545)

EEL 6586 SPEECH SIGNAL PROCESSING (3) Speech models: acoustic tube, source-filter. Time and frequency domain properties. Linear prediction analysis of speech. Speech coding: APCM, DPCM, ADPCM, sub-band, VQ, etc. Speech synthesis and recognition. Speech processing hardware. (PR: EEL 6502)

EEL 6592 DIGITAL VIDEO AND MULTIMEDIA (3) Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and high definition television principles, standards and technology.

EEL 6593 MOBILE PERSONAL COMMUNICATION (3) Characteristics of wireless mobile channels (indoor and outdoor); multipath and shadow fading, frequency reuse; micro and pico cells; base-station and portable units. Cell coverage, blocking, and co-channel interference. TDMA, FDMA, CDMA and hybrid approaches to multiple access. Protocols, hand-over. Voice, data, and multi-media over wireless indoor channels. (PR: EEL 6534)

EEL 6613 MODERN CONTROL THEORY (3) A study of modern control techniques including optimum and adaptive control.

EEL 6614 SYSTEMS AND CONTROL THEORY I (3) Analysis of multi-variable linear systems (continuous and discrete time, state-space methodology and transfer functions description). Analysis and design of feedback control systems. Effects of plant and measurement noise. Optimal control.

EEL 6615 SYSTEMS AND CONTROL THEORY II (3) Continuation of EEL 6614. (PR: EEL 6614)

EEL 6620 NONLINEAR CONTROL SYSTEMS (3) Principles of state-variables, phase-plane and describing functions.

EEL 6640 RANDOM PROCESSES IN CONTROL SYSTEMS (3) Analysis and design of control systems subject to random inputs and disturbances.


EEL 6753 DIGITAL SIGNAL PROCESSING III (3) Advanced topics in digital signal processing, e.g. (a) Adaptive arrays, beamforming, and applications to radar and sonar, (b) Multirate filtering, multi-resolution analysis, sub-band analysis, wavelet transforms, and applications to images and other large-scale measurements, (c) Noise cancellation, and (d) inverse problems, such as CT reconstruction. (PR: EEL 6502 or EEL 6580 or EEL 6752)

EEL 6820 IMAGE PROCESSING (3) Two-dimensional signals (including random), convolution and system functions. Fourier transform and FFT in two dimensions. Digitization of two-dimensional signals, quantization and aliasing errors. Filtering, restoration, and low bit-rate coding of images. Application to video-conferencing.
EEL 6825 PATTERN RECOGNITION THEORY AND APPLICATIONS (3) Theory of pattern recognition. Parametric and non-parametric methods, training theorems, unsupervised learning. Biomedical, industrial, speech, image and other applications. (PR: EEL 6545)

EEL 6846 CODING THEORY (3) Error-correcting codes, algebraic block codes, linear codes and feedback shift registers; BCH codes; convolutional codes; burst error correcting codes; arithmetic codes; decoding methods. (PR: ENG 5423)

EEL 6908 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U.

EEL 6932 ADVANCED ENGINEERING SEMINAR (1-3)

EEL 6935 SELECTED ELECTRICAL TOPICS (1-3)

EEL 6936 SPECIAL ELECTRICAL PROBLEMS (1-3)


EEL 7931 SELECTED TOPICS IN COMMUNICATION (3) Advanced topics in communications such as synchronization, spread-spectrum communications, fading channels, large constellation signaling schemes, mobile radio, statistical multiplexing, performance measurement, etc. (PR: EEL 6535)

EEL 7980 DISSERTATION: DOCTORAL (1-19 Var.) S/U (PR: Admission to Candidacy)

Industrial and Management Systems Engineering (EGS)

4202 E. Fowler Avenue, ENB 118
Tampa, Fl 33620
(located ENG 242)
(813) 974-2269
brett@eng.usf.edu
WebAddress: http://www.ie.eng.usf.edu/grad_prog/

Chairperson: Paul E. Givens
Acting Associate Chairperson: Anita Callahan
Industrial Program Director: Michael Weng
Management Program Director: Dolores Gooding

Faculty: S. Busansky, Anita L. Callahan, Tapas K. Das, Paul E. Givens, Dolores Gooding, Suresh K. Khator, P. McCright, William A. Miller, O. Geoffrey Okogbaa, Michael Weng

Degrees Offered: M.S.I.E., M.I.E., M.S.E.M., Ph.D.
Industrial Engineering (M.I.E., M.S.I.E., Ph.D.)
Engineering Management (M.S.E.M.)

Specializations: Manufacturing systems and quantitative analyses (production scheduling and control, quality and reliability, repair and maintenance), System modeling and simulations, and Engineering management

Graduate Certificate in Total Quality Management (refer to Graduate Certificate Listing for information)

The department participates in the college’s MSE, ME and MSES programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, applications in robotics, human factor engineering. The departmental laboratories include two full-size industrial robots, CNC machine tool systems, a manufacturing cell with industrial grade conveyor and ASRS equipment, table top robotic trainers, microcomputers, eye-tracking devices, physiological measurement devices, speech synthesis and voice recognition equipment, noise, vibration and illumination measurement devices, dynamic anthropometry equipment, and data collecting equipment.

The Master of Science in Engineering Management (MSEM) program is an off campus, part-time program designed to prepare practicing engineers from various disciplines to make the transition to the technical management track. The courses are offered via FEEDS in the late
afternoon and evening hours at a number of industrial centers throughout the state. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. A minimum of 33 credits of approved coursework beyond the bachelor level is required, 18 credits of core work and 15 credits of electives. A thesis option is available to MSEM students who are interested in applied research. Up to 6 hours of advanced courses in the student’s area of specialty may be taken as electives.

**Master of Science in Engineering -- Manufacturing Option**

In addition, the Departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering, offer a Master of Science in Engineering with a Manufacturing option (consisting of 18 hours core and either 18 hours of electives or 6 hours of electives and a thesis). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree emphasizing Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems.

The student may choose electives and concentrate in one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making their elective course choices from several departments.

Specific questions pertaining to admission and program requirements may be answered by contacting the Industrial and Management Systems Department.

**Course Descriptions**

**EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT** (3) Introduction to the fundamentals of accounting, finance, management, and marketing as needed by engineers, scientists, and other professionals in managerial positions. (Majors only)

**EIN 5357 ENGINEERING VALUE ANALYSIS** (3) Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems. (PR: EIN 5219 or equiv., majors only)

**EIN 5914 SPECIAL INDUSTRIAL PROJECTS I** (1-3) (PR: CC, majors only)

**EIN 6106 TECHNOLOGY AND LAW** (3) Selected topics related to the relationships between and among technology, law and social policy, including governmental regulation, products liability, professional liability, contract negotiation and formation, and developments and trends affecting engineering professionals. (PR: CI, majors only)

**EIN 6107 PROFESSIONAL BEHAVIOR AND THE ENGINEER** (3) A study of professional ethics and morals as faced by technical managers in the development, production, and marketing of industrial products and services. Emphasis on case studies, class discussions, and guest lecturers regarding ethical issues in managerial decision making. (PR: CI)

**EIN 6108 ENGINEERING MANAGEMENT** (3) Human relations, understanding oneself, understanding other people, influencing and motivation performance, improving moral and discipline, and self appraisal and analysis for the technical manager.
EIN 6119 DECISION SUPPORT SYSTEMS IN ENGINEERING MANAGEMENT (3) Conceptual foundations of decision support systems with focus on the needs of engineering managers and effective decision making in technological and scientific organizations. (Majors only)

EIN 6121 TECHNOLOGY AND MARKETS (3) Marketing strategy and management of R&D programs, engineering projects and systems from the viewpoint of interaction between the technical enterprise and its industrial and government customers. (Majors only)

EIN 6215 ENGINEERING SYSTEM SAFETY (3) The theory and practical implications of the systems safety concept as these relate to the life cycle of a product or system. Analysis of the fundamental concepts, design implications, and specifications of safety in human machine environments. (PR: Statistics)

EIN 6216 OCCUPATIONAL SAFETY ENGINEERING (3) Introduction to the principles of designing, maintaining and managing a workplace free from hazards. Covers mechanical hazards, fall and lifting hazards, climatic and environmental hazards, electrical hazards, fire and explosive hazards, and pressure hazards. Considers design issues, warnings, and personal protective equipment. Term project required. (PR: GS in Public Health or Engineering, or CI)

EIN 6218 HAZARDS CONTROL ENGINEERING (3) A study of occupational hazards and their control in the work place including regulations, organizational aspects and methodologies to control the industrial environment. (PR: CI, majors only)

EIN 6258 HUMAN/COMPUTER INTERACTION (3) Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer-controlled devices in man/machine systems. (PR: EIN 5245, majors only)

EIN 6265 INDUSTRIAL MENTAL HEALTH (3) Theories and concepts of mental hygiene and positive mental health as applied to organizational settings. Review of research studies related to industrial mental health; stress management; strategies for improving mental health and employee performance. (Majors only)

EIN 6319 WORK DESIGN AND PRODUCTIVITY ENGINEERING (3) Foundations of motivated work performance, job satisfaction and organizational productivity. Analysis of job content and job context, comparison of different concepts for improving organizational effectiveness; suggestions for productivity improvements through effective work redesign. (Majors only)

EIN 6323 ENGINEERING MANAGEMENT POLICY AND STRATEGY (3) Strategic planning and policy formulation in technical and scientific organizations. General managers in the middle. Translation of strategic plans into action plans and implementation of the strategic change process. This is a capstone course in the EM program to be taken during the last semester of the student’s program. (Majors only)

EIN 6324 TECHNICAL ENTREPRENEURSHIP (3) A comprehensive study of developing and starting an engineering venture. Student teams work out a complete business plan for a company to develop, manufacture, and distribute a technical product or service. (Majors only)
EIN 6336 PRODUCTION CONTROL SYSTEMS (3) Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems. (PR: CC, majors only)

EIN 6386 PROBLEMS IN ENGINEERING MANAGEMENT (3) A study of problems encountered by managers in the planning, organizing, directing, and controlling of resources in technology-based organizations. (Majors only)

EIN 6605C ROBOTICS AND ASSEMBLY AUTOMATION (3) The use of robots in manufacturing assembly; coordinated use of robots, machine tools, feeders, holding devices, and material handling systems. (Majors only)

EIN 6933 ADVANCED ENGINEERING SEMINAR (1-3) (Majors only)

EIN 6934, 6935, 6936 SPECIAL INDUSTRIAL TOPICS I, II, III (1-3 Each) (PR: CC, majors only)

EIN 6971 THESIS: MASTER'S (1-19 Var.) Rpt. S/U (Majors only)

ESI 5219 STATISTICAL METHODS FOR ENGINEERING MANAGERS (3) Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty. Not open to students who have had EGN 3443.

ESI 5236 RELIABILITY ENGINEERING (3) Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability. (PR: ESI 5219 or equiv., majors only)

ESI 5306 OPERATIONS RESEARCH FOR ENGINEERING MANAGEMENT (3) Linear programming, non-linear programming, queuing, inventory, network analysis. Not open to students who have had ESI 4315. (ESI 5219 or equiv., majors only)

ESI 5470 MANUFACTURING SYSTEMS ANALYSIS (3) The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization. (PR: CC, majors only)

ESI 5522 COMPUTER SIMULATION (3) Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output. (PR: ESI 4521 or equiv., majors only)

ESI 6213 THEORY OF INDUSTRIAL STATISTICS (3) Study of the theory behind the statistical techniques applied to the solving of engineering problems. (PR: ESI 5219 or equiv.)

ESI 6225 QUALITY ASSURANCE PLANS (3) Advanced techniques in quality control systems. Includes study of articles in current journals. (PR: ESI 5219 or equiv., majors only)

ESI 6247 STATISTICAL DESIGN MODELS (3) Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems. (PR: ESI 5219 or equiv)
ESI 6291 SPECIAL TOPICS IN STATISTICS (3) Special topics in statistics related to research in engineering. (PR: CC, majors only)

ESI 6336 QUEUING THEORY (3) Introduction to queuing models. Poisson queues, non-Poisson queues, decision models, transient analysis and special queuing topics. (PR: ESI 4315, majors only)


ESI 6555C TOPICS IN AUTOMATION (3) Study of recent advances in automated systems, automation concepts, control methods, numerical control, adaptive control. (PR: CC, majors only)

ESI 6906 INDEPENDENT STUDY (1-19 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (Majors only)

ESI 6911 DIRECTED RESEARCH (1-19 Var.) Rpt. S/U. (PR: GR. ML, majors only)

ESI 7911 DIRECTED RESEARCH (1-19 Var.) Rpt. S/U. (PR: GR. Ph.D. level, majors only)

ESI 7980 DISSERTATION: DOCTORAL (1-19 Var.) (PR: Admission to Candidacy)
Mechanical Engineering (EGR)

4202 E. Fowler Avenue, ENB 118
Tampa, Fl 33620
(located ENG 135)
(813) 974-2280
E-mail Address: britten@eng.usf.edu
WebAddress: http://www.me.eng.usf.edu

Chairperson: Rajiv Dubey
Program Director: Muhammad M. Rahman

Faculty: Glen H. Besterfield, Roger A. Crane, Daniel P. Hess, Ronald H. Howell, Autar Kaw, Jose Porteiro, Muhammad M. Rahman, L.A. Scott*, W.A. Smith*, Stuart Wilkinson, Shuh J. Ying
*Professors Emeritus

Degrees Offered: M.S.E., M.S.M.E, M.M.E., Ph.D.
Engineering (M.S.E.)
Mechanical Engineering (M.S.M.E.) - thesis or design project
Mechanical Engineering (M.M.E.) - non-thesis
Mechanical Engineering (Ph.D.)

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD and Algor and a CFD Laboratory with Phoenics.

Additional Admission Requirements:

1. Master’s students must have a minimum GRE score of 1100 (verbal and quantitative) with a minimum of 600 on the quantitative portion or a GPA of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program.

2. Doctoral students must have a minimum GRE score of 1200 (verbal and quantitative) with 650 on quantitative.

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements.
Course Descriptions

EML 5107 INTERNAL COMBUSTION ENGINES (3) This course is for the application of thermodynamics, chemistry, dynamics of machinery, electronics and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanism and emission control of exhaust pollutants. (PR: EML 4106C or CI)

EML 5245 TRIBOLOGY (3) Introduction to friction, lubrication and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection. (PR: EML 4503)

EML 5325 MECHANICAL MANUFACTURING PROCESSES (3) Description of mechanical cutting, forming, and fabrication methods as used in modern industrial processes. (PR: CI, majors only)

EML 5395 MOTOR SELECTION AND CONTROL (3) Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices. (PR: ENG 3373, ENG 3433)

EML 5930, 5931 SPECIAL TOPICS III, IV (1-4 each) (PR: CC, majors only)

EML 6105 ADVANCED THERMODYNAMICS AND STATISTICAL MECHANICS (3) Topics in classical thermodynamics, some elementary subjects in statistical mechanics and some applications in combustion. (PR: ECH 3023 or EML 4106 or CI)

EML 6145 NUMERICAL METHODS IN HEAT TRANSFER (3) Application of finite difference and finite element techniques to problems of conduction and convection. Cartesian, cylindrical and spherical systems. Steady and transient solutions. (PR: CI, majors only)

EML 6154 ADVANCED CONDUCTION ANALYSIS (3) Multi-dimensional heat transfer. Emphasis on solution techniques, exact and numerical. (PR: EML 4142, EML 4041, majors only)

EML 6157 RADIATION (3) Review of basic principles of radiation, grey bodies and real surfaces, calculation of shape factors, absorbing gases. (PR: EML 4142, majors only)


EML 6232 COMPOSITE LAMINATED MATERIALS (3) Fundamental relationships for predicting the mechanical and thermal response of multi-layered materials and structures. Micromechanical and macromechanical relationships are developed for laminated materials with emphasis on continuous filament. Material, structural and strength optimization to design laminated composite materials using user-friendly software. (PR: EML 3500, majors only)
EML 6375 DIR DIG CTRL I

EML 6606 HVAC SYSTEMS DESIGN (3) Criteria for selection of systems types; performance, characteristics of single zone, multizone, double duct and variable volume systems; energy conservation in HVAC design; HVAC controls; computer models of HVAC systems; solar energy used in HVAC. (PR: EML 4601 or CI, majors only)

EML 6653 APPLIED ELASTICITY (3) Students apply the fundamentals of elasticity to engineering problems. Practical problems will be solved and advantages of using particular methods will be illustrated. (PR: EML 3500)

EML 6713 ADVANCED FLUID MECHANICS (3) Introduction to computational problem solutions in fluid mechanics and heat and mass transfer as applied to mechanical engineering. The emphasis is on the formulation and solution of computational engineering problems. (PR: CI, majors only)

EML 6801 ROBOTIC SYSTEMS (3) Overview of existing industrial and specialized robot types and operation; vision systems; tactile sensors; ranging and proximity techniques; actuation/transmission methods; power sources; autonomous vehicle mobility and navigation methods; and artificial intelligence. (PR: CI, majors only)

EML 6907 INDEPENDENT STUDY (1-6 Var.) Independent study in which students must have a contract with an instructor. Rpt. S/U. (PR: GR, majors only)

EML 6930 SPECIAL PROBLEMS I (1-3) (PR: CC, majors only)

EML 6931 SPECIAL PROBLEMS II (1-3) (PR: CC, majors only)

EML 6971 THESIS: MASTERS (1-6 Var.) (PR: CC, majors only)

EML 7915 DIRECTED RESEARCH (1-6 Var.) S/U. (PR: CC and GR. Ph.D. level, majors only)

EML 7980 DISSERTATION: DOCTORAL (1-12 Var.) (PR: Admission to Candidacy)
The College of Fine Arts provides opportunities for students to develop their interests and talents to the highest level possible, and encourages them to do so whether they wish to commit to a life in the arts or to develop appreciation for and involvement in the arts. For these purposes, the college educates students in the practice of creating, performing, presenting, teaching and understanding theatre, music, dance, and the visual arts.

In recognition of its academic and artistic achievements, the College of Fine Arts has been given the program-of-emphasis-status by the Board of Regents of the State University System. The college offers degree programs in art, dance, music, theatre, music education, and art education.

### Degrees Offered
- Master of Fine Arts (M.F.A.)
- Master of Arts (M.A.)
- Master of Arts in Art Education (M.A.)
- Master of Arts in Music Education (M.A.)
- Master of Music (M.M.)
- Doctor of Philosophy (Ph.D.) in Curriculum and Instruction with an Emphasis in Music Education

### Financial Aid
Graduate assistantships and other fellowships are available to students who show a potential for creative contribution to the profession. Students who are interested in assistantship positions should contact departmental graduate advisors early in the spring for best consideration for the following academic year. Additionally, loans, grants, and work programs are available to qualified students. Financial aid is granted on the basis of need, academic promise, and character.
General Admission Requirements:
In addition to the university's minimum admission requirements, each program within the College of Fine Arts has its own requirements for admission. Students should check the program description that follows for specific requirements.

College Activities and Events
The College of Fine Arts arranges a full schedule of concerts, plays, lectures, films, and workshops featuring students, faculty, and visiting artists. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the Fine Arts Events Office.

Visiting Artists Program and Artist-in-Residence
The College of Fine Arts is committed to creating and cultivating an artistic environment to enhance the total learning experience of its students and the community at large. Each year performing groups are invited to the campus for a period of residency. The visiting artists provide opportunities for students and the community to participate in their teaching, creative, and performing activities. The Art Department has brought to the campus internationally known artists and lecturers, such as Vito Acconci, Alice Aycock, Robert Colescott, Barbara Kruger, Lucy Lippard, Robert Mapplethorpe, Robert Morris, Matt Mullican, Robin Winters, Mary Sheniz, Lorna Simpson, Hal Foster, Renee Stout, Guillermo Gomez-Pena, Albert Chong, and Matthew Barney

Art Museum
The Art Museum presents exhibitions that focus on contemporary American and European art and also showcase the work of faculty, students and alumni. The exhibitions and art collection serve as an integral part of the studio and art history curriculum of the Art Department. Educational programs are offered to the University and Tampa Bay community. The Art Museum houses the USF art collection which is composed of original graphics, drawings, photographs, and African and Pre Columbian artifacts.

Graphicstudio/The Institute for Research in Art
Graphicstudio was founded in 1968 as an experimental, research oriented collaborative workshop in the College of Fine Arts. Over sixty leading international artists have created more than 400 limited edition fine art works at Graphicstudio, in intaglio, photogravure, lithography, relief, serigraphy, sculpture, and artist books. Graphicstudios' works are archived at the National Gallery of Art in Washington, D.C., the only university-based workshop so honored. Graphicstudio offers unique opportunities for graduate students to work and learn in a professional environment. Offerings include classes, conferences, internships and graduate assistantships in printmaking, sculpture fabrication, curation, education and arts administration.
African Art Program
In conjunction with the Endowed Chair and program in African Art History, the College promotes understanding of African Art and provides research opportunities for persons interested in African Art. A curriculum with an interdisciplinary emphasis on traditional African Arts, new world diaspora, or transAfrican forms is being coordinated with specialists and collectors in the field. USF exchange and partnership programs in contemporary art instruction and exhibition are also being developed with the Federation of Bantu-speaking Nations in Africa.

The British International Theatre Program
The BRIT program provides residencies for major British theatre artists to work from two to eight weeks each year in master classes and on department productions. Recent artists include Bill Bryder, Ronald Harwood, Louise Page, Matthew Francis, Dorothy Tutin, Christopher Fry, and Brian Rix.

The John W. Holloway Endowed Chair in Theatre and Dance.
The Holloway endowment provides residencies for major dance and theatre artists to work from two weeks to one semester in master classes and on productions in dance and theatre. Recent artists include Joe Goode (U.S.), Roni Pinkovitch (Israel), and Lee Kenneth Richardson (U.S.)
Art (ART)

4202 E. Fowler Avenue, FAH 110
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(813) 974-2360
e-mail address: olinge@arts.usf.edu
WebAddress: http://www.arts.usf.edu/art/art.html

Chairperson: Wallace Wilson
Program Director: Diane Elmeer

Faculty: Richard Beckman, Rozalinda Borcila, Amanda Carlson*, Alan Eaker, Hansan Elahi
Diane Elmeer, Charles J. Fager, Victoria Hirt, Jeffrey M. Kronsno ble, Mernet R. Larsen,
Charles P. Lyman, Lou S. Marcus, Bruce L. Marsh, Thom McLaughlin, M.A. Miller,
Bradley Nickels, Brad Shanks, Helena Szepe, Wallace Wilson, David R. Wright, Theo
Wujcik

*Stuart Golding Scholar in African Art

Degrees Offered: M.F.A., M.A., M.A. in Art Education

Specializations: Drawing, Painting, Sculpture, Ceramics, Electronic Media, Printmaking,
and Photography. Students who wish to work with more than one media or in a combination of media are encouraged to do so.

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

Additional Admission Requirements

1. Deadline: The MFA program admits students in the fall semester only. Applications must be mailed to the Graduate Admissions Office and postmarked prior to February 15. In addition, other than GRE scores and transcripts, all materials supporting the application (described below) should be sent to the Art Department, c/o of the Graduate Advisor, by February 15. Incomplete applications will not be reviewed.

2. The applicant must submit a portfolio of art work directly to the Graduate Program Director in the Art Department for faculty review. The portfolio should consist of 10-15 separate works in 35mm slides. Applicants in drawing, printmaking, and photography should consider sending the original works. Electronic Media applicants should send materials in the most appropriate format: CD, tape, disk, etc. The portfolio should provide recent evidence of maximum strength in the area of the applicant's primary interest. However, work submitted may represent more than one discipline. A self addressed, stamped envelope with sufficient postage for return of all materials must accompany the portfolio.

3. A statement of intent, which indicates their aims and goals as a graduate student at USF, is required.

4. In addition, 3 letters of recommendation, sent directly from those professionally qualified to comment upon the quality of the applicant's art work or potential success in a graduate program, should be directed to the Graduate Program Director in the Art Department for faculty review.
Acceptance into the M.F.A. Program

Students who are accepted into the USF Art Department's M.F.A. Studio Degree Program are required to participate in activities that extend beyond the fulfillment of course requirements and a thesis exhibition. The Art Department graduate faculty has carefully designed the M.F.A. Studio Degree as a course of study that will maximize a student's potential for in-depth exploration of his or her chosen artistic ideas, mediums, themes and theories. The M.F.A. students are expected to be in the program full-time and to have made a commitment to graduate study. It is incumbent upon the M.F.A. student to become engaged, through participation in critiques, exhibitions, forums and lectures, in the general discussion about art that is pervasive in the department and fundamental to the vitality of the M.F.A. Studio Program.

M.F.A. Degree Requirements

The MFA degree requires a minimum of 60 hours. Specific program requirements include the following:

*ART 6798 Contemporary Thought
*ART 6956 Graduate Studio Thesis Documentation
ART 6940 Graduate Art Forum - repeated 4 times
ART 6055 Graduate Art History
ART 6937 Graduate Instructor Methods (exceptions made for students who have assisted as T.A.s in the Foundation courses.)
ART 6971 Thesis
ART Studio and Discretionary Electives

*20th Century Art History is a prerequisite to ARH 6798
*ARH 6798 and acceptance of Thesis Project Proposal are prerequisite for Graduate Studio Thesis Documentation (offered Spring Term only).
*20th Century Art History is a prerequisite to admission to the graduate program. It may be taken during the first year of graduate school but will not count as part of the 60 hour requirement.
*All M.F.A. student must take at least one course in non-western art or thought. This course can be taken as an art history course or through another department offering such an emphasis. Course work taken as undergraduate studies in non-western art may substitute but only at the discretion of the Art faculty.

The rest of the program is discretionary and can be planned with the advice of the Graduate Art Advisor in its initial stages. After faculty acceptance of the student's proposed thesis project, a Supervisory Committee will be selected and serve in an advisory capacity with the student for planning the rest of their program.

Non-degree Seeking Student

Requests for use of transfer credits or credits earned as a non-degree seeking student should be made when the student applies to the graduate program. The faculty will decide at the time of admission whether or not transfer credits and credits (maximum 8 semester hours) earned as a non-degree seeking student will be used toward the MFA degree.

Thesis Examination

MFA students also are required to participate in a thesis orals session in conjunction with the thesis exhibition. This is a forum for questions from faculty representatives and is open to other graduate students and the general public.

Studio Space

An M.F.A. graduate student normally is assigned a studio, when available, in the department and is expected to remain in residence with regular studio hours while enrolled.
Master of Arts (M.A.) - Art History

The Art Department offers high quality M.A. studies in art history from the Middle Ages to the present, including an emphasis of study in African Art History. The focus of all art history courses and programs is on intellectual history and art historiography, supplemented by practical internships in galleries and museums as well as study-abroad programs. While a reading knowledge of French or German is preferred, other languages may be substituted with advisor’s approval if more appropriate to the student’s interests.

Additional Admission Requirements

1. Students are admitted into the MA program in fall semester only. The university application for admission to graduate study must be mailed to the Graduate Admissions Office and postmarked prior to February 15. In addition, other than GRE scores and transcripts, all materials supporting the application (described below) should be sent to the Visual Arts Department, c/o of the Graduate Program Director, by February 15. Incomplete applications will not be reviewed.

2. The student must submit directly to the Graduate Program Director in the Visual Arts Department a research paper dealing with Art History or a related discipline (literature, political history, anthropology, psychology, philosophy or classical studies), and a statement of intent, which indicates the student’s aims and goals in the MA program.

3. In addition, three letters of recommendations from those professionally qualified to comment upon the quality of the applicant’s academic work or potential for success in a graduate program in Art History should be sent to the Graduate Advisor in the Visual Arts Department for faculty review.

4. A personal interview by the Art History faculty may also be requested.

5. All applicants who do not have an undergraduate degree in art history will be expected to complete a minimum of 4 undergraduate courses and two critical studies courses in the art history program. Any exceptions can be granted only by the art history faculty only.

Program requirements

Course work consists of 18 hours of specially designated courses, 18 hours of electives, and 2 hours of thesis for a total of 38 hours.

1. Students must take the following courses:
   a. methods of Art History (must be taken during first two semesters in program)
   b. one historiography course
   c. one cultural intellectual history course
   d. one seminar
   e. Thesis Writing for Art History

2. Museum internship, arranged through the Art History faculty, is optional and can be taken any term after the first semester.

Thesis

By the end of the student’s second semester and completion of 18 hours, the student will select (in consultation with the art history faculty) a Faculty Graduate Thesis Committee. Students will be advanced to candidacy by the art history faculty based in part upon satisfactory completion of a thesis proposal. The Graduate Thesis Committee must approve the written thesis and conduct the oral defense of the thesis in satisfaction of degree requirements.
Transfer of Credit
The Art Department will approve the transfer of only 6 credit hours from another institution and only 8 credit hours taken as a non-degree seeking student.

Course Descriptions:

Admission to all 5000 level studio courses by Consent of Instructor.

ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART (4) A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history. (PR: CI)

ARH 5795 METHODS OF ART HISTORY (4) This course introduces students to various methods used by art historians to analyze the form and content of individual works of art, and to various modes of historical explanation. (Must be taken during the student’s first two semesters in the M.A. program.)

ARH 5797 GALLERY AND MUSEUM INTERNSHIP (2-6) By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary owing to the work at hand in particular museums, but possible areas of work include registration, installation, conversation, writing of grants, or museum education. (Students are eligible after completing one semester in the program.) S/U only.

ARH 6055 ART HISTORY (4) Rpt. (PR: CI)

ARH 6798 SEMINAR IN ART HISTORY (4) Var. Specialized topics in art history. (PR: CI)

ARH 6865 CURRENT HISTORIOGRAPHY: RENAISSANCE (4) This course explores current perspectives on problems of Renaissance historiography.

ARH 6867 CURRENT HISTORIOGRAPHY: 19TH CENTURY (4) This course explores current perspectives on problems in the historiography of 19th Century Art.

ARH 6868 CURRENT HISTORIOGRAPHY: 20TH CENTURY (4) Cultural and intellectual history of Modern Art.

ART 5125C CERAMICS (4) Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Rpt. (PR: ART 4111C)

ART 5340C DRAWING (4) Advanced problems in various drawing techniques. Emphasis on individual creative expression. Rpt. (PR: ART 4320C)

ART 5422C LITHOGRAPHY (4) Advanced problems in various lithographic techniques. Emphasis on individual creative expression. Rpt. (PR: ART 4421C)

ART 5472C INTAGLIO (4) Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. Rpt. (PR: ART 4471C)

ART 5536C PAINTING (4) Advanced problems in the various painting techniques. Emphasis on individual creative expression. Rpt. (PR: ART 4520C)
ART 5730C SCULPTURE (4) Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Rpt. (PR: ART 4702C)

ART 5910 RESEARCH (1-4) Rpt. (PR: CI)

ART 5936 STUDIO TECHNIQUES: SELECTED PROJECTS (2) Concentration in specialized technical data and process. Rpt. for different topics only. (PR: CI)

ART 6126C CERAMICS (4) Rpt. (PR: CI)

ART 6341C DRAWING (4) Rpt. (PR: CI)

ART 6423C LITHOGRAPHY (4) Rpt. (PR: CI)

ART 6473C INTAGLIO (4) Rpt. (PR: CI)

ART 6580C PAINTING (4) Rpt. (PR: CI)

ART 6731C SCULPTURE (4) Rpt. (PR: CI)

ART 6907 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U.


ART 6936 GRADUATE SEMINAR (2) Advanced course in theoretical and conceptual foundations of the visual arts. The specific structure and content to be determined by the instructor.

ART 6937 GRADUATE INSTRUCTION METHODS (1-4) Special course to be used primarily for the training of graduate teaching assistants. Var. Rpt. up to 4 credits. S/U.

ART 6940 SELECTED TOPICS IN ART (1-4) Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty. Rpt. (PR: GS and CI)

ART 6956 GRADUATE STUDIO THESIS DOCUMENTATION (2) An advanced seminar focused on the problems of documenting in verbal form the development of a body of work in the visual arts. (PR: Achieved Candidacy)


FIL 5205C CINEMATOGRAPHY (4) (PR: CI)

FIL 6206C CINEMATOGRAPHY (4) (PR: CI)

PGY 6108C PHOTOGRAPHY (4) Rpt. (PR: CI)
Introduction to Art Education

The Art Department at the University of South Florida offers the Master of Arts Degree through three different programs designed to train for leadership in one of several areas: Artist/Teacher, Program Design Specialist in Art, and Community Arts.

The M.A. in Art Education is offered in cooperation with the College of Education. The M.A. in Advanced Studio Studies offers a degree for certified educators to continue their studio skills. Through interfacing with other academic disciplines within the University, the M.A. in Arts and the Community offers an interdisciplinary degree combining the skills and knowledge of visual arts, education, social science, and medicine.

Acceptance into the M.A. Program in Art Education

Applications for admission to the M.A. program in Art Education are accepted for the Fall, Spring, and Summer terms. The application deadline for Fall and Summer terms is February 15. The deadline for applying for admission for the Spring Term is October 1.

University Requirements for Acceptance

1. All applicants to the M.A. Program in Art Education must have recorded a current GRE score (not more than five -5- years old).
2. Applicants must have a minimum score of 800, combined verbal and quantitative, on the GRE and an undergraduate GPA of 3.0. OR and undergraduate GPA of 2.5 and a minimum combined verbal and quantitative score of 1000 on the GRE
3. A Bachelors Degree from a regionally accredited institution.

Departmental Requirements for Acceptance

1. Three letters of recommendation from people who can professionally assess the applicant’s ability to do scholarly and academic work.
2. A statement of intent indicating the applicant’s goals as a student in the M.A. program in Art Education.
3. A personal interview with the Art Education faculty.
4. A portfolio demonstrating Art/Art Education. Including the five areas of Art requirements for State Certification for Plan II. A portfolio demonstrating basic skills in Art for Plan III.

Undergraduate Deficiencies in Art Education

1. Students who do not have an undergraduate degree in Art or Art Education will be expected to complete up to four undergraduate Art Studio courses plus one course in Art Education.
2. The Art Department has designated an 8 hour limit on all credits taken with special student status that can be petitioned to be transferred in time for admission to the planned program.

M.A. PROGRAM REQUIREMENTS

Upon acceptance to the program, students are required to meet with either Art Education M.A. Program director or the Graduate Advisor for file a plan of study for their tenure as students in the M. A. Program. The plan of study form is available from the Graduate Advisor, but must be signed by the director of the Art Education Program, the student, the student’s academic file - and for Plan II - the College of Education.

Please Note: All students admitted in the M.A. program must file a plan of study before they can register.
Art Education Plan Requirements

Plan I: M.A. in Art Education Advanced Studio Studies
This program is formulated specifically for those who are already state certified to teach art. It allows the candidate to advance his or her career through studies in studio art. Alternate emphases are available in advanced educational studies or the integration of the arts into the education, creativity, or well-being of the community. Students in Plan I file their program plan of studies with the student’s academic advisor. Minimum of 34 semester hours; see Graduate Program Director for the current outline.

Plan II: M.A. Art Education Teacher Certification K-12
This program is for candidates who wish to be eligible for state teacher certification at the completion of the M.A. Program. This is a cooperative degree with the College of Education and fulfills the College of Education requirements to meet State requirements for certification of K-12. Students in Plan II file a program of study with the academic advisor in Fine Arts and Office of Graduate Studies in the College of Education. Minimum of 46 hours; see Graduate Program Director for the Curriculum outline.

Plan III: M.A. Art Education Arts and the Community
This program is for students who wish to integrate the arts into community institutions outside of educational institutions. Students create a program of study depending upon their background, training, and artistic development with the permission of the Art Education M.A. Program. These studies include: Inter-modal Arts, Art Education, Studio Arts, Art History, Interdisciplinary and Therapeutically oriented skills. Minimum of 46 hours; see Graduate Program Director for the curriculum outline.

Course Descriptions:

ARE 6262 MANAGEMENT DESIGN FOR ART INSTITUTIONS (3) Principles of administration and supervision of art programs in the school and art institutions.

ARE 6746 BASIS OF INQUIRY INTO ARTISTIC MIND (3) An in-depth study of the contemporary basis of inquiry into artistic mind including a multi-disciplined review of literature and research in art education. Includes a visual inquiry project.

ARE 6844 EXPERIENTIAL AND THEORETICAL BASIS OF ARTISTIC MIND (3) Experiential and theoretical explorations into past and contemporary philosophies and practices in art and art education.

ARE 6944 FIELD WORK IN ART EDUCATION (1-4) For student with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.
School of Music

4202 E. Fowler Avenue, FAH 110
Tampa, FL 33620
(813) 974-2311
e-mail address: hunter@arts.usf.edu
WebAddress: http://www.arts.usf.edu/music/music.html

Director: Christopher Doane
Associate Director: John Richmond
Program Director: Don Owen


*Emeritus

Degrees Offered: Master of Music (M.M.)

Specializations: Performance, Theory, Composition, Conducting, Piano Pedagogy, Jazz Studies

USF's music faculty has been carefully chosen for its training, performing ability, and ability to teach. USF music alumni are found teaching successfully in public schools and universities around the country and performing in a variety of concert settings.

The School of Music at USF offers the student the opportunity to study with a distinguished faculty, work with the newest in creative equipment, and be in the company of other superior music students for an exciting and exacting period of study.

Visiting Artists and Artists-In-Residence
The School of Music invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Student Organizations
Sigma Alpha Iota, a national professional music fraternity for women, and Phi Mu Alpha Sinfonia, a professional music fraternity for men, are dedicated to serve the cause of music in America. College Music Educators National Conference is an affiliate of the Music Educators National Conference and is open to all interested students. An International Association of Jazz Educators chapter is open to anyone interested in jazz. Pi Kappa Lambda, an academic honorary society for musicians, maintains a chapter in the School of Music.
Master of Music Degree (M.M.)

Additional Admission Requirements
1. An undergraduate degree in Music or Music Education from an accredited four-year institution or demonstrated proficiencies in the areas of performance (composition), music theory, and history/literature. Details regarding proficiency exams may be obtained from the Graduate Advisor's office.
2. A performance audition or portfolio examination is required of all entering graduate students.
3. Options for students re-taking the Graduate Theory Placement Examination include:
   a. Enrolling in an undergraduate class in the area of deficiency.
   b. Taking a Graduate Review Course.
   c. Correcting the deficiency through private tutoring or other instruction before re-taking the examination.

Dates and times for auditions and diagnostic examinations may be obtained by calling or writing the School of Music.

Program Requirements
Students seeking the Master of Music or Master of Arts in Music Education degrees must successfully complete the Theory Assessment Test prior to graduation or before enrolling in a graduate theory course at the 6000 level. It is strongly recommended that a student take this exam at the beginning of graduate study. The applicant for the Master of Music degree must successfully complete a comprehensive examination at the end of the program of study. Details regarding this examination may be obtained from the Coordinator of Graduate Music Studies, School of Music. (The format for this exam may differ according to a particular field of study.)

Course work:

Techniques of Research in Music**
20th Century Music Literature
Critical Analysis of Theory or Critical Analysis of History
** Recommended for the first semester of enrollment.

3 hours
3 hours
2 hours

For performance majors, a secondary applied music course may not be used to satisfy the requirements for applied music. A student must enroll for the major applied offering (4 hours). Degree requirements vary according to the program chosen and the student's needs and interests. Each program of study must be approved by the department's Coordinator of Graduate Studies to conform with guidelines established by the music faculty. The responsibility for seeing that all graduation requirements are met rests with the student.

Course Descriptions

MUC 5625 JAZZ COMPOSITION (2) Private instruction in original composition. Required of jazz composition majors. (PR: CI)


MUC 6444, 6445 ELECTRONIC MUSIC/ANALOG/DIGITAL SYSTEMS RESEARCH (3,3) State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory. (PR: CI)
MUC 6625 SEMINAR IN JAZZ COMPOSITIONAL STYLES (2) A seminar study of the major compositional figures in jazz. Oriented toward the continuing development of students' own writing ability. MM candidates in Jazz Performance must repeat with different content. (PR: CI)

MUC 6626 JAZZ COMPOSITION (4) Private instruction in original composition. Required of jazz composition majors. (PR: CI)

MUG 6256, 6257, 6258 CHORAL LITERATURE AND CONDUCTING (4,4,4) Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance. (PR: CI)

MUG 6307 BAND/WIND ENSEMBLE CONDUCTING (3) Combination of lecture, seminar, laboratory and individual instruction experiences designed to provide development of advanced conducting skills. Rpt. up to 12 hours.

MUL 6375 TWENTIETH CENTURY MUSIC LITERATURE (3) A study of the literature, compositional techniques, and music philosophies of the major 20th century composers from Debussy to the present. (PR: CI)

MUL 6505 SYMPHONIC LITERATURE (2) A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective. (PR: CI)

MUL 6555 BAND/WIND ENSEMBLE LITERATURE (3) Combination of seminar and classroom experiences designed to provide depth in historical study of band and wind ensemble literature. Rpt up to 9 hrs.

MUL 6565 CHAMBER MUSIC LITERATURE (2) A survey and stylistic analysis of chamber music repertory from 1750 through the present day. (PR: CI)

MUL 6624 SONG LITERATURE (2) Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs, and contemporary English and American songs; special emphasis on performance. (PR: CI)

MAJOR ENSEMBLE PERFORMANCE COURSES (below)
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments. Rpt. (PR: CI)

MUN 6145 WIND ENSEMBLE (1)
MUN 6215 UNIVERSITY ORCHESTRA (1)
MUN 6315 UNIVERSITY SINGERS (1)
MUN 6385 UNIVERSITY-COMMUNITY CHORUS (1)
MUN 6455, 6456 PIANO ENSEMBLE (1, 1)
MUN 6715 JAZZ ENSEMBLE (1)
MUN 6716 JAZZ CHAMBER ENSEMBLE (1)

CHAMBER MUSIC ENSEMBLES COURSES (below)
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano. Rpt. (PR: CI)

MUN 6345 CHAMBER SINGERS (1)
MUN 6416 STRING QUARTET (1)
MUN 6429 WOODWIND QUINTET (1)
MUN 6436 BRASS QUINTET (1)
MUN 6445 PERCUSSION ENSEMBLE (1)
MUN 6446 MARIMBA ENSEMBLE (1)
MUN 6475 COLLEGIAN MUSICUM (1)
MUN 6485 CLASSICAL GUITAR ENSEMBLE (1)
MUN 6716 JAZZ CHAMBER ENSEMBLE (1)

MUSIC WORKSHOP COURSES (below)
Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students. (PR: CI)

MUS 5905 DIRECTED STUDY

MUS 6793 TECHNIQUES OF RESEARCH IN MUSIC AND MUSIC EDUCATION (3)
A study of the methods of research and professional bibliography and with an individual, formal project as a terminal requirement. (PR: CC)

MUS 6906 INDEPENDENT STUDY (1-19 Var.) Independent study in which student must have a contract with an instructor. Rpt. S/U. (PR: CC)


MUS 6976 GRADUATE RECITAL (2) (PR: CC)

MUT 5051 GRADUATE REVIEW OF MUSIC THEORY (2) A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and as such does not count toward the degree.

MUT 6545 CRITICAL ANALYSIS-THEORY (2) A study of analytical procedures and compositional practices from the common practice period. An emphasis on consistent practices that provide a theoretical basis for composition and/or performance. (PR: CI)

MUT 6586 CRITICAL ANALYSIS-HISTORY (2) A study of historical developments of music in western civilization. Emphasis on a different historical period each semester, from the Middle Ages through the Romantic Period. Rpt. up to 6 hours. (PR: CI)

MUT 6629 ANALYTICAL SYSTEMS (2) May not be repeated. The investigation and practical application of various systems of musical analysis from traditional to the alternative systems of Schenker, Reti, Schoenberg, etc. (PR: CI)

MUT 6665 SEMINAR JAZZ STYLES AND ANALYSIS (2) (PR: CC)
MUT 6751 TEACHING OF MUSIC THEORY (3) Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory. (PR: CI)

MUT 6760 HISTORY OF MUSIC THEORY (2) Evolutionary history of the materials of western music including tuning systems, scales, models, tonality, rhythm, counterpoint and harmony; also the exploration of treatises and theorists contributing to the evolution. (PR: CI)

APPLIED MUSIC COURSES (below)
Required of all applied music majors. Private and class instruction. Required registration in major performance ensemble. (PR: Necessary competency determined by faculty jury audition.)

MVB 5251 APPLIED TRUMPET, SECONDARY (2-4)
MVB 5252 APPLIED FRENCH HORN, SECONDARY (2-4)
MVB 5253 APPLIED TROMBONE, SECONDARY (2-4)
MVB 5254 APPLIED EUPHONIUM, SECONDARY (2-4)
MVB 5255 APPLIED TUBA, SECONDARY (2-4)
MVB 6451 APPLIED TRUMPET (4)
MVB 6452 APPLIED FRENCH HORN (4)
MVB 6453 APPLIED TROMBONE (4)
MVB 6454 APPLIED EUPHONIUM (4)
MVB 6455 APPLIED TUBA (4)

MVJ 5250 APPLIED JAZZ PIANO SECONDARY (2)
MVJ 5252 APPLIED JAZZ BASS SECONDARY (2)
MVJ 5253 APPLIED JAZZ GUITAR SECONDARY (2)
MVJ 5259 APPLIED JAZZ PERCUSSION SECONDARY (2)
MVJ 5951 APPLIED JAZZ PERFORMANCE (2)
MVJ 6460 APPLIED JAZZ PIANO MAJOR (4)
MVJ 6463 APPLIED JAZZ GUITAR (4)
MVJ 6464 APPLIED JAZZ BASS (4)
MVJ 6469 APPLIED JAZZ PERCUSSION (4)
MVJ 6952 APPLIED JAZZ PERFORMANCE (4)

MVK 5251 APPLIED PIANO, SECONDARY (2-4)
MVK 5253 APPLIED ORGAN, SECONDARY (2-4)
MVK 6451 APPLIED PIANO (4)
MVK 6453 APPLIED ORGAN (4)

MVP 5251 APPLIED PERCUSSION, SECONDARY (2 or 4)
MVP 6451 APPLIED PERCUSSION (4)

MVS 5251 APPLIED VIOLIN, SECONDARY (2-4)
MVS 5252 APPLIED VIOLA, SECONDARY (2-4)
MVS 5253 APPLIED CELLO, SECONDARY (2-4)
MVS 5254 APPLIED DOUBLE BASS, SECONDARY (2-4)
MVS 5255 APPLIED HARP, SECONDARY (2-4)
MVS 5256 APPLIED CLASSICAL GUITAR, SECONDARY (2-4)
MVS 6451 APPLIED VIOLIN (4)
MVS 6452 APPLIED VIOLA (4)  
MVS 6453 APPLIED VIOLONCELLO (4)  
MVS 6454 APPLIED DOUBLE BASS (4)  
MVS 6455 APPLIED HARP (4)  
MVS 6456 APPLIED CLASSICAL GUITAR (4)  

MVV 5251 APPLIED VOICE (2-4)  
MVV 6451 APPLIED VOICE (4)  

MVV 5251 APPLIED FLUTE, SECONDARY (2-4)  
MVV 5252 APPLIED OBOE, SECONDARY (2-4)  
MVV 5253 APPLIED CLARINET, SECONDARY (2-4)  
MVV 5254 APPLIED BASSOON, SECONDARY (2-4)  
MVV 5255 APPLIED SAXOPHONE, SECONDARY (2-4)  
MVV 6451 APPLIED FLUTE (4)  
MVV 6452 APPLIED OBOE (4)  
MVV 6453 APPLIED CLARINET (4)  
MVV 6454 APPLIED BASSOON (4)  
MVV 6455 APPLIED SAXOPHONE (4)  

MASTER COURSES (below)  Study and performance of selected literature with special emphasis on style, form, and techniques; especially designed for teachers, piano majors, and talented secondary school students. (PR: CI)  

STUDIO TEACHING SEMINAR (below)  Emphasis on techniques used in teaching the individual student in performance. (PR: GS in performance and CI)  

MVK 6650 GRADUATE PIANO PEDAGOGY I  
MVK 6651 GRADUATE PIANO PEDAGOGY II
Music Education

4202 E. Fowler Avenue, FAH 110
Tampa, FL 33620
(813) 974-2311
e-mail address: hunter@arts.usf.edu
WebAddress: http://www.arts.usf.edu/music/music.html

Coordinator: David A. Williams

Faculty: Jack Heller, Janet Moore, John Richmond, Ivan Wansley, David Williams, Christopher Doane

Degrees: M.A., Ph.D.
Specializations: General Music, Instrumental Music, Vocal/Choral Music

Master of Arts (M.A.) -- Music Education

Additional Admission Requirements
Concurrently, the applicant must fulfill the specific acceptance requirements to the Music Education Division. Full acceptance cannot be given until the applicant passes an interview with the Coordinator of Music Education.

Program Requirements
Plans in instrumental, vocal, and general music are offered. Three plans are available to the student: 35 hours of class work; or 32 hours including recital; or 30 hours including thesis.

Required are: 4 credits in education to include EDF 6215; 9 credits in music education including MUE 6080 and MUE 6145, 6 credits in music theory/history/literature; 2 credits in applied music, MUS 6793, and successful completion of the general examination at the end of the program. Program requirements include successful completion of the Graduate Theory Examination. Date and time for the theory examination may be obtained by calling or writing the School of Music.

The student will not be allowed to enroll in a graduate theory course at the 6000 level until the examination is passed. If a student does not pass the Graduate Theory Examination, it is recommended that he/she re-take an alternate examination by the end of the first semester of enrollment as a degree-seeking student.

Options for students re-taking the Graduate Theory Examination include:
   a. Enrolling in an undergraduate class in the area of deficiency.
   b. Taking a Graduate Review Course.
   c. Correcting the deficiency through private tutoring or other instruction before re-taking the examination.

Students seeking music teacher certification should contact the College of Education listings under Program, Plans of Study.
Ph.D. in Curriculum and Instruction -- Music Education
The Ph.D. is a research degree granted upon evidence of proficiency and distinctive achievement in music and demonstration of the ability to do original, independent investigation.

Additional Admission Requirements
1. Undergraduate grade point average of 3.0 minimum during the last 2 years of the baccalaureate degree or a grade point average of 3.5 at the master’s level and a minimum score of 1000 on the GRE
2. Three letters of recommendation
3. Favorable recommendations from program faculty
4. A Master’s degree in music education or music from an accredited institution of higher education
5. At least 2 years of full-time public or private school music teaching experience.

After consulting the Music Education Coordinator, the applicant should contact the College Coordinator of Graduate Advising (EDU 312), College of Education, in order to file the College Data Form and the University application.

Program Requirements
Specialization 21 hours
Cognate area 12
Dissertation
Foundations 8
Statistics/measurement/research design 12
Total 83

Other specific requirements can be obtained by contacting the Coordinator of Music Education.

Course Descriptions

MUE 6080 FOUNDATIONS AND PRINCIPLES OF MUSIC EDUCATION (3)
Investigation of historical, philosophical, and psychological foundations of music education. (PR: Acceptance into Music Education Graduate Program or CI)

MUE 6116 ADVANCED ELEMENTARY SCHOOL MUSIC (3)
Study and appraisal of children’s musical growth, curriculum plans, materials, and teaching techniques essential for the sequential development of musical learning. (PR: Acceptance in the Music Education Graduate Program or CI)

MUE 6145 MUSIC SUPERVISION AND ADMINISTRATION (3)
The music curriculum in relation to the total school program; staff and budgetary needs. (PR: Acceptance in the Music Education Graduate Program or CI)

MUE 6336 ADVANCED SECONDARY VOCAL MUSIC (3)
Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program that emphasizes musical sensitivity. (PR: Acceptance in the Music Education Graduate Program or CI)

MUE 6347 ADVANCED MATERIALS FOR INSTRUMENTAL MUSIC EDUCATION (3)
Course designed to examine published and unpublished materials, develop curricula and resources, including media hardware, appropriate for use in school instrumental music programs. (PR: Acceptance in the Music Education Graduate Program or CI)
MUE 6906 INDEPENDENT STUDY: MUSIC EDUCATION (1-6) Independent study in which students must have a contract with an instructor. Rpt. S/U.

MUE 6971 THESIS: MASTERS/EDS (2-19) (In CI)

MUE 7815 FOUNDATIONS OF MUSICAL LEARNING AND TEACHING (3) A critical examination of current findings regarding the phenomena of the psychology of musical behaviors including the investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning. (PR: Acceptance in the Music Education Graduate Program, a graduate level educational psychology course or its equivalent, or CI)

MUE 7835 AESTHETICS IN MUSIC EDUCATION (3) A course designed to investigate the nature of philosophical aesthetics as they relate to aesthetic and educational theories that influence programs in music education. (PR: Acceptance in the Music Education Graduate Program or CI)

MUE 7980 DISSERTATION: DOCTORAL (2-30) (Ph.D Candidate only) (In CI)
Theatre (THE)
4202 E. Fowler Avenue, TAR 230
Tampa, Fl 33620
(813) 974-2701
e-mail address: calandra@arts.usf.edu
WebAddress: http://www.

Chairperson: Denis Calandra
Program Director: Barton Lee/Denis Calandra

Faculty: Jack W. Belt, Mary Ann Bentley, Denis Calandra, Nancy B. Cole, Patrick Finelli, Fannie Green, Robin Gordon, Roland Guidry, Judith Kase-Polisini, Barton W. Lee, William A. Lorenzen, P. Massie, Christopher Steele, Gerald B. Stephens, Peter O'Sullivan, David K. Williams

Degrees: M.Ed.in Curriculum and Instruction with an Emphasis in Theatre Education
Specializations: Theatre Education

Course Descriptions

THE 5909 DIRECTED STUDY (1-6) Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration. (PR: CC)

THE 5931 SELECTED TOPICS IN THEATRE (1-8) The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format. Rpt. for different topics only. (PR: CI)

Theatre Education

The Theatre Department offers graduate courses in dramatic writing and theatre production process. The Master of Education Degree in Curriculum and Instruction with an Emphasis in Theatre Education is offered in coordination with the College of Education. The program will be planned with the student’s advisory committee. (See M.Ed. Program of Study in the Department of Secondary Education listing under College of Education

Additional Admission Requirements
After consulting with the Theatre Chairperson, the applicant should contact the Theatre Advisor, College of Fine Arts and the Coordinator of Graduate Studies, College of Education (EDU 106) in order to file the College Data Form and the University application.

Currently inactive program.
Course Descriptions

EDG 6329 CREATIVe DRAMA IN A DEVELOPMENTAL CONTEXT (3) Theories and methods of applying three major approaches of creative drama to the use of improvised drama from kindergarten through secondary school. The course will involve students in applying the drama process as a teaching method which can be applied by classroom teachers of elementary, middle and high school.

THE 6720 DRAMA IN ELEMENTARY SCHOOL (3) Methods of using theatre and drama activities in elementary school, including use of drama and theatre for interdisciplinary, integrated projects. Available to majors and non-majors, no extra laboratory sections.

THE 6730 CURRENT TRENDS IN THEATRE EDUCATION (3) A study of curricular patterns and instructional practices in K-12 theatre education, including methods of teaching theatre aesthetics through the study of plays and their production, adoption of state and national standards, methods of assessment and utilization of media in theatre education.
The Graduate Faculty of the College of Medicine consists of scientists who conduct research in many fields of science basic to understanding disease processes and to the development of improved methods of diagnosis, treatment and prevention of disease. Students receive their research training in up-to-date methods of scientific investigation and gain experience in modern well-equipped laboratories. The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement.

Ph.D. in Medical Sciences

The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course
of study, evaluates the student’s progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation.

Departments within the College of Medicine may have additional requirements that pertain to their respective training program. These can be found in the guidelines prepared by the individual Departments which should be consulted for further information.

Additional Admission Requirements

1. Completed application forms, GRE scores, and two official transcripts of undergraduate and any previous graduate work should be sent to the University of South Florida Graduate Admissions Office, FAO 100N, Tampa, FL 33620.
2. An overall GPA of 3.0 on a 4.0 scale with a minimum GPA of 3.0 in undergraduate science courses.
3. A GRE score of 1100 (total verbal and quantitative) or higher. However, if the applicant scores 600 or higher on the advanced GRE test in the major field and has a score of 1000 or higher on the General test, the minimum score of 1100 may be waived.
4. Three letters of recommendation should be sent to the Associate Dean for Research and Graduate Affairs, University of South Florida College of Medicine, MDC Box 40, 12901 Bruce B. Downs Blvd., Tampa, FL 33612.
5. The applicant must have a background in the sciences, including biology, chemistry, physics, and mathematics. Particular admission criteria are available from the individual departments.

In addition to course requirements summarized above, the department may require additional course work before admission into the program. Specific deficiencies may be corrected through courses taken within a specified period of time at the discretion of the department. Each course to be taken, as well as the acceptable grade, is agreed upon by the student and the department at the time the student is accepted into the Graduate Program. This information will be communicated to the student and to the Associate Dean for Research and Graduate Affairs (College of Medicine) prior to registration. Except for the State or University minimum admission criteria, all other requirements herein summarized, may under exceptional circumstances, be waived in consideration of the applicant’s expected success in the program, with the recommendation of the faculty of the major department, and with the approval of the Associate Dean for Research and Graduate Affairs.

Financial Aid

A limited number of assistantships, fellowships, and tuition waivers are available for graduate students. Applicants seeking support should contact the chairperson of the department to which they are applying.
Anatomy

12901 Bruce B. Downs Blvd., MDC 006
Tampa, FL 33612
(located MDC 2005)
(813) 974-2843
e-mail address: salway@com1.med.usf.edu
WebAddress: http://www.med.usf.edu/ANAT/anat1.html

Acting Chairperson: Christopher Phelps
Program Director: Stephen Alway

Faculty: Stephen E. Alway, Don F. Cameron, Li-Tsun Chen, Julian J. Dwornik, Don R. Hilbelink, Nancy Olashaw, Christopher P. Phelps, Karl E. Muffy, Michael F. Nolan, Johannes A.G. Rhodin, Samuel Saporta, Marzenna Wiranowska

Degrees Offered: Ph.D.

Major Research Areas:
Neuroendocrinology, exploration of testicular function and dysfunction, embryo development, computer-aided anatomical reconstruction and diagnosis, pain mechanisms and stimulation-produced analgesia, angiogenesis, cardiac morphometry and dysfunction, muscle hypertrophy, development and aging-induced sarcopenia development and cell surface binding proteins, and cytoskeletal proteins.

Course Descriptions

BMS 6100C GROSS ANATOMY (5-10) (PR: Anatomy Students only)

BMS 6110 MICROSCOPIC ANATOMY (5-10) (PR: Anatomy Students only)

GMS 6020 NEUROSCIENCE (5-6) An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior. (PR: CI)

GMS 6601 METHODS OF ELECTRON MICROSCOPY IN MEDICAL RESEARCH (3) This lecture and laboratory course deals with theoretical and technical issues regarding the use of the electron microscope in biomedical research. (PR: GMS 6608 or CC)

GMS 6602 NEURAL CORRELATES OF BEHAVIOR (3) This course focuses on the organization and function of nervous system structures that control and regulate various aspects of somatic and visceral motor behavior. (PR: CC)

GMS 6604 HUMAN EMBRYOLOGY (3) This course deals with the structural and functional development of the human from conception to birth. (PR: CC)
GMS 6608 ADVANCED MICROSCOPIC ANATOMY (3-6) This lecture and laboratory course examines the human organism at the microscopic level, focusing on cellular morphology and the histological organization of tissues and organ systems. (PR: CC)

GMS 6609 ADVANCED HUMAN GROSS ANATOMY (6-12) This lecture and laboratory course focuses on the anatomical relationships between various structures that comprise the human body. (PR: CC)

GMS 6610 ADVANCED NEUROANATOMY (3-6) This lecture and laboratory course deals with the structure and function of the human nervous system. The course is organized using both regional and systemic approaches. (PR: Admission to Ph.D. Program in Medical Sciences and acceptance into Anatomy Dept.)

GMS 6611 INTRODUCTION TO ANATOMICAL RESEARCH (2) This course consists of scheduled rotations through the laboratory at least three members of the anatomy department faculty. (PR: Admission to Ph.D. Program in Medical Sciences and Anatomy Dept.)

GMS 6612 SUPERVISED TEACHING IN HUMAN ANATOMY (1-3) This course deals with the philosophy and mechanics of teaching. The course also involves supervised, practical experience in the various aspects of teaching in both the classroom and laboratory. (PR: GMS 6608, 6609, or 6610 and acceptance into the Anatomy Dept.)

GMS 7418 DIRECTED RESEARCH (1-19) S/U. (PR: Gr. Ph.D. level)

GMS 7930 SELECTED TOPICS (1-3) (PR: CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admission to Candidacy)
Biochemistry and Molecular Biology

12901 Bruce B. Downs Blvd., MDC 007
Tampa, Fl 33612
(located MDC 3535)
(813) 974-9573
e-mail address: nsinglet@com1.med.usf.edu
WebAddress: http://www.med.usf.edu/BlOCHEM/graduateadmissions/index.htm

Chairperson: Larry P. Solomonson
Program Director: Gene C. Ness


Degrees Offered: Ph.D.

Major Research Areas:

Course Descriptions

BCH 5105 BIOCHEMISTRY LABORATORY ROTATIONS (1-3) A course in which first year graduate students rotate through selected professor’s laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

BCH 6135C METHODS IN MOLECULAR BIOLOGY (4) An introduction to modern molecular biological techniques and instrumentation. Lec., Lab. (PR: BCH 6255 or CC)

BCH 6411 MOLECULAR BIOLOGY (4) A discussion of experimental systems being used to investigate the organization and expression of genetic information in eukaryotic cells. Every other year. (PR: GMS 6200C or CC)

BCH 6506 ADVANCES IN ENZYMOLOGY (3) A discussion of the theory and mechanism of enzymological reactions with emphasis on enzymological techniques. (PR: GMS 6200C, CC)
BCH 6746 PHYSICAL BIOCHEMISTRY (3) The theory and application of modern physical biochemical techniques. (PR: GMS 6200C, or CC)

BCH 6806 BIOCHEMICAL ENDOCRINOLOGY (2) A study of the biochemical mechanisms of polypeptide, thyroid, and steroid hormones, including sites of action. Offered every other year. (PR: GMS 6200C or CC)

BCH 6876 CURRENT TOPICS IN BIOCHEMISTRY (1) A Journal Club in which graduate students present research publications from recent literature. S/U (PR: Admission to Ph.D. Program in Medical Sciences or CC)

BCH 6888 COMPUTER APPLICATIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY (2) An introduction to computer software applications for research in Biochemistry and Molecular Biology. Emphasis on database searching and submission, data analysis and graphical presentation, DNA and protein sequence analysis and molecular modeling. Lec./Pro. (PR: CC)

GMS 6020 NEUROSCIENCE (5-6) An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior. (PR: CI)

GMS 6200C CORE COURSE IN MEDICAL BIOCHEMISTRY (5) A comprehensive introductory course in biochemistry with emphasis on intermediary metabolism and its regulation. (PR: Admission to Ph.D. Program in Medical Sciences or CC)


GMS 7930 SELECTED TOPICS (1-3) (PR: GMS 6200C or CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: GMS 6200C or CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admitted to Candidacy)
Medical Microbiology and Immunology

12901 Bruce B. Downs Blvd., MDC 010
Tampa, Fl 33612
(located MDC 4005)
(813) 974-3281
e-mail address: pmedvecz@com1.med.usf.edu
WebAddress: http://www.med.usf.edu/MEDMICRO/mmihome.html

Chairperson: Herman Friedman
Program Director: Peter Medveczky


Degrees Offered: Ph.D.

Major Research Areas:
Host responses to infection, cellular immunology and cytokine gene regulation, signal transduction in various cells including immune cells, molecular biology of bacteria including Bartonella henselei, Legionella pneumophila, Streptococcus mutans, molecular biology of oncogenic herpesviruses, development of anti-HIV and anti-tumor vaccines, regulation of transcription and signaling in cancer.

Course Descriptions

GMS 6041 MOLECULAR MICROBIOLOGY TECHNIQUES AND APPLICATIONS (2) A discussion and presentation of modern techniques used to study the molecular biology of viruses and bacteria.

GMS 6100C CORE COURSE IN MEDICAL MICROBIOLOGY (5) An in-depth survey of modern microbiology including studies of bacterial agents, parasitic and fungal organisms, viruses and immunology. (PR: Admission to Ph.D. Program in Medical Sciences)

GMS 6101 DIAGNOSTIC MICROBIOLOGY (3) This course consists primarily of conferences, reading assignments and laboratory training. The student is presented with the theoretical background in understanding the indigenous microflora of man and is guided in developing practical skills and familiarity with methodology in handling clinical specimens and in isolating, identifying and reporting pathogenic microorganisms. (PR: GMS 6100C or CC)

GMS 6102 RESEARCH PLANNING AND METHODS (3) Topics presented in this course form the foundation of the research project selected by the student and aid in avoidance of problems associated with ill-conceived experimental design. (PR: GMS 6100C or CC)
GMS 6104 CELLULAR IMMUNOLOGY (3) Current concepts of cellular interactions in the immune response. (PR: GMS 6100C or CC)

GMS 6105 ADVANCES IN IMMUNOLOGY (2) Detailed study of the cellular and biochemical events associated with the development and regulation of immunity and hypersensitivity. (PR: GMS 6100C or CC)

GMS 6107 ADVANCES IN VIROLOGY (2) The course covers regulation of viral replication and the effects of virus infection on host cell function and survival. (PR: GMS 6100C or CC)

GMS 6110 HOST-PARASITE INTERACTIONS (2) Lectures and discussions concerned with properties of microorganisms that pertain to their virulence and with anatomic, physiologic, and biochemical alterations occurring in animal and human hosts in response to invasion by virulent microorganisms. (PR: GMS 6100C or CC)

GMS 6130 MOLECULAR BIOLOGY OF TUMOR VIRUSES (2-3) This course is focused on tumor viruses which are involved in the pathogenesis of cancer and utilized in gene therapy as vectors. The lectures will cover current concepts of the field, specific viral genes and gene products involved in cancer, and molecular mechanisms by which viruses transform normal cells to cancer cells. (PR: Medical Microbiology, CI)

GMS 6182 MICROBIOLOGY LABORATORY ROTATIONS (1-4) A course in which first and second year graduate students rotate through selected professor's laboratories to familiarize the student with ongoing research in the Department and facilitate the selection of a mentor. (PR: Working knowledge of Microbiology and Immunology, CI)

GMS 6940 SUPERVISED TEACHING IN MEDICAL MICROBIOLOGY AND IMMUNOLOGY (1-3) To instruct student in teaching methods that are employed in training of medical students; acquaint student with evaluation procedures used to measure academic progress of medical students. S/U. (PR: GMS 6100C or CC)


GMS 7930 SELECTED TOPICS (1-3) (PR: Departmental Core Course or CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: Departmental Core Course or CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admission to Candidacy)
Pathology and Laboratory Medicine

12901 Bruce B. Downs Blvd., MDC 11
Tampa, FL 33612
(located MDC 2040)
(813) 974-3133
e-mail address: sshelley@hsc.usf.edu
WebAddress: http://wwwmed.usf.edu/PAltVpathology.html

Chairperson: Santo Nicosia
Program Director: Sue Shelley

Faculty: Wenlong Bai, John U. Balis, Kaaron Benson, Jin Q. Cheng, Domenico Coppola,
Jose I. Diaz, Robert W. Engelman, Philip R. Foulis, William A. Janssen, Patricia A. Kruk,
Lynn C. Moscinski, Carlos Muro-Cacho, Santo V. Nicosia, Sue A. Shelley

Degrees Offered: Ph.D.

Major Research Areas:
Growth regulation of ovarian surface epithelial cells, and ovarian cancer pathobiology, acute injury, and regulation of bone marrow maturation.

Course Descriptions

GMS 6111 HUMAN SYSTEMIC PATHOLOGY (3) Gross and microscopic study of specific disease states are covered. Lecture and reading assignments cover each organ system. (PR: GMS 6300C or CC)

GMS 6112 BIOCHEMICAL PATHOLOGY (2) Biochemical studies are conducted in attempts to correlate chemical alterations with morphologic changes in the pathogenesis of disease. (PR: GMS 6300C or CC)

GMS 6300C CORE COURSE IN PATHOLOGY (5) The course covers fundamentals of general pathology. (PR: Admission to Ph.D. Program in Medical Sciences)


GMS 7930 SELECTED TOPICS (1-3) (PR: Departmental Core Course or CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: Departmental Core Course or CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admission to Candidacy)
Pharmacology and Therapeutics

12901 Bruce B. Downs Blvd., MDC 9
Tampa, Fl 33612
(located MDC 4014)
(813) 974-2543

e-mail address: graduate@pharm.med.usf.edu
WebAddress: http://www.med.usf.edu/PHARM/index.html

Chairperson: Lynn Wecker
Program Director: James Polson

Faculty: Jahanshah Amin, Javier Cuevas, Samuel Edwards, David F. Fitzpatrick, Marcia N. Gordon, Paul E. Gottschall, Joseph J. Krzanowski, Jr., David G. Morgan, Mary Pacheo, Keith Pennypacker, James B. Polson, Hong-Gong Wang, Lynn Wecker

Degrees Offered: Ph.D.

Major Research Areas:
Molecular, cellular, and systemic actions of drugs with an emphasis on neuro- and cardiovascular pharmacology. Neuropharmacological studies include regulation of acetylcholine synthesis, animal models of Alzheimer's disease and the response of the brain to injury and aging, role of metalloproteinases in neurological diseases, expression and involvement of fos-related gene transcription factors in neurotoxicology, regulation of nicotinic receptors in brain, expression and function of GABA receptor subunits, and drug metabolizing enzymes in the brain; smooth muscle studies include a focus on the effects of cyclic nucleotide phosphodiesterases on cell proliferation and the role of nitric oxide in mediating the antihypertensive effects of natural products.

Course Descriptions

BMS 6400C PHARMACOLOGY (5-10) (PR: Pharmacology Students only)

GMS 6020 NEUROSCIENCE (5-6) An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior. (PR: CI)

GMS 6500C CORE COURSE IN PHARMACOLOGY (5) A survey course designed to acquaint the student with the basic principles of pharmacology, major groups of drugs and the effects of drugs on living systems. (PR: GMS 6200C, GMS 6400C or CC)
GMS 6501 CELLULAR AND MOLECULAR PHARMACOLOGY (4) An in-depth analysis of dose-response relationships, pharmacological receptor theory, molecular consequences of drug-receptor interactions, and pharmacological approaches to the characterization of receptor populations. (PR: GMS 6500C or CC)

GMS 6502 PHARMACOLOGY OF PHYSIOLOGICAL SYSTEMS (4) Basic and clinical aspects of major pharmacological agents focusing on the systems level of analysis. Emphasis on cardiovascular, immunologic and neural agents plus special topics including drug metabolism.

GMS 6503 METHODS IN PHARMACOLOGY (2) This course is designed to familiarize students with selected research methods in pharmacology. (PR: GMS 6500C or CC)

GMS 6504 IMMUNOPHARMACOLOGY (3) A study of the physiology and pharmacology of cells of the immune system, including biochemistry of activation, immunotoxicology, and clinical applications of drugs and cytokines on immunosuppression and immunostimulation. (PR: GMS 6500C, GMS 6500 or instructor’s consent, or CC)

GMS 6507 DRUG METABOLISM (3) The course is divided into two sections. The first section presents the basic theoretical and practical application of pharmacokinetics to drug research and therapy. The second section covers the phase I and phase II reactions involved in drug biotransformation. (PR: GMS 6500C or CC)

GMS 6511 CURRENT LITERATURE IN PHARMACOLOGY (1) The course is designed to help students develop skills in the analysis of pharmacological data through discussions of scientific literature and critiques of departmental seminars. In addition, students will gain knowledge of ongoing research in selected areas of pharmacological interest. (PR: CI)


GMS 7930 SELECTED TOPICS (1-3) (PR: Departmental Core Course or CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: Departmental Core Course or CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admission to Candidacy)
Physiology and Biophysics

12901 Bruce B. Downs Blvd., MDC 8
Tampa, Fl 33612
(located MDC 3040)
(813) 974-2527
e-mail address: jprice@hsc.usf.edu
WebAddress: http://www.med.usf.edu/PHYSl0/physiol.html

Chairperson: Bruce Lindsey
Program Director: Joel Price

Faculty: Eric Bennett, John R. Dietz, Craig Doupnik, Hugo L. Fernandez, Bruce G. Lindsey, Stanley J. Nazian, Daniel S. Papineni, Joel M. Price, P. Rao, Roger Shannon, Bernd Sokolowski, David Vesely, Kay-Pong Yip

Degrees Offered: Ph.D.

Major Research Areas:
Neural coding and parallel information processing and computation in the brain; network mechanisms for the generation and modulation of the respiratory rhythm; induction and expression of long-term facilitation of breathing; neurophysiology of cough; endocrine and neuroendocrine control of reproductive processes; cardiac hormones and kidney function; structure/function correlates of ion channels and membrane excitability and synaptic transmission; vascular smooth muscle reactivity and long-term control of blood pressure in normotensive and hypertensive states; studies on cerebral and coronary vascular endothelial dysfunction in Alzheimer’s disease and aging.

Course Descriptions

BMS 6500 MEDICAL PHYSIOLOGY (5-10) (PR: Physiology Students only)

GMS 6020 NEUROSCIENCE (5-6) An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior. (PR: CI)

GMS 6400C CORE PHYSIOLOGY (5) A study of the physiologic principles and control mechanisms of the organ systems of the body. (PR: Admission to Ph.D. Program in Medical Sciences or CC)

GMS 6401 KIDNEY, FLUIDS AND ELECTROLYTES (4) A study of the mechanisms controlling salt and water excretion, including both intrarenal and extrarenal factors regulating renal function. (PR: GMS 6400C or CC)
GMS 6402 RESPIRATION (4) Provides advanced study of lung gas exchange function and control of breathing. (PR: GMS 6400C or CC)

GMS 6403 ENDOCRINE MECHANISMS (4) An examination of current concepts of endocrine and neuroendocrine systems. Emphasis will be placed on control at the organismal and organ system levels. (PR: GMS 6400C or CC)

GMS 6404 SYSTEMS NEUROPHYSIOLOGY (4) Considers current topics in systems neurophysiology including sensory processing, motor control, and learning. Literature in both invertebrate and vertebrate animal models and neural network simulations is considered. (PR: GMS 6400C or CC)

GMS 6407 SMOOTH AND SKELETAL MUSCLE (4) Covers mechanisms of contraction and their relationship of mechanical behavior in skeletal muscle and smooth muscle. New theories of contraction will be presented. (PR: GMS 6400C or CC)

GMS 6409 PERIP/CIRCUL/HEMODY (4) A study of the hemodynamic principles controlling flow, capillary exchange, and control mechanisms at the small blood vessel level in different vascular beds. (PR: GMS 6400C or CC)

GMS 6410 CARDIOVASCULAR REGULATION (4) A study of the hemodynamic principles controlling cardiac output, pressure-flow relationships, and venous return in the pulmonary and systemic circulations. (PR: GMS 6400C or CC)

GMS 6433 MEMBRANE PHYSIOLOGY (4) Advanced readings and discussion of the molecular physiology of excitable membranes. (PR: GMS 6400C or CC)

GMS 6494 INTRODUCTION TO PHYSIOLOGICAL RESEARCH (1-5) S/U Survey of research areas and techniques currently available in the Department of Physiology and Biophysics. Laboratory. (PR: GMS 6400C or CC)


GMS 7930 SELECTED TOPICS (1-3) (PR: Departmental Core Course or CC)

GMS 7939 GRADUATE SEMINAR (1) (PR: Departmental Core Course or CC)

GMS 7980 DISSERTATION: DOCTORAL (1-19) S/U (PR: Admission to Candidacy)
Neuroscience Concentration

12901 Bruce B. Downs Blvd., MDC 040
Tampa, Fl 33612
(813) 974-1081
e-mail address: blindsey@com1.med.usf.edu
WebAddress: http://www.med.usf.edu/PHD/NEURO/neuro.html

Chairperson, Neuroscience Concentration Committee: Bruce G. Lindsey

Degree Offered: Ph.D. Program in Medical Sciences (See program for details)

Major Research Area:
The Ph.D. Program in Medical Sciences at the University of South Florida offers an interdisciplinary Neuroscience Concentration for research training. Faculty representing both basic science and clinical departments are engaged in research on the nervous system. Areas of expertise include biochemistry and cellular and molecular neuroscience, neural systems and computational neuroscience, behavioral neuroscience, developmental neuroscience, neuroimmunology, and neuropsychopharmacology, among others. Students are encouraged to carry out research during their entire period of study. The interdisciplinary structure permits considerable flexibility in training; each student’s training is tailored to meet individual requirements.

The application process, admission requirements, program description, funding, financial support. Faculty are available on the website above or in writing by request.
School of Physical Therapy (PHT)

12901 Bruce B. Downs Blvd., MDC 77
Tampa, Fl 33612-4766
(located MDC)
(813) 974-8870
e-mail address: ptinfo@hsc.usf.edu
web address: http://www.hsc.usf.edu

Director: Martha A. Clendenin
Program Director:

Faculty: M. Boyd, J. Nyland, C. Page, I. Ross

Degrees Offered: M.S.

Physical therapists are health professionals with special expertise in the science of movement. They use this knowledge to provide preventive and therapeutic services and psychological support to people of all ages with movement dysfunction. Professional education includes study of basic sciences and the professional skills needed for client examination, evaluation, diagnosis, prognosis, intervention and outcomes. Students will participate in comprehensive clinical internships throughout the program. The School of Physical Therapy is a component of the College of Medicine and is a limited access professional program with an annual enrollment of 30 students per year.

M.S. in Physical Therapy

Additional Admission Requirements:

1. Baccalaureate degree in any discipline
2. Upper GPA of 3.0; Prerequisite GPA of 3.0
3. 10 hours of observational experience in Physical Therapy
4. GRE test scores
5. Interview by invitation

The prerequisite course requirements for admission to physical therapy programs in Florida are standardized across the State University System. For information on necessary prerequisites, contact the program director.
Program Requirements:

Students must complete 78 credit hours of professional coursework and meet the general graduate requirements of the university, for admission and graduation.

Course Descriptions

PHT 5021 INTRODUCTION TO THE PROFESSION (2) Introduction to systems thinking, decision making, professional expression, responsibility and accountability in the context of the roles of the physical therapist in administration, consultation, critical inquiry, education and patient/client management. Restricted to majors.

PHT 5022 PROFESSIONAL EXPRESSION (2) Development of a learning unit(s) on physical therapy research and the investigation of patient care plans by application of theories of systems thinking, decision making, professional expression, responsibility and accountability (including legal/ethical concepts), culture and argumentation with emphasis on the critical inquiry and education roles of the physical therapist. Restricted to majors. (PR: PHT 5021)

PHT 5023 THE PHYSICAL THERAPIST AND OTHER HEALTH CARE PROVIDERS (3) Development of a prevention, wellness, or health program, and the determination of the legal scope of practice of the physical therapist and other health care providers by application of theories of systems thinking, decision making, professional expression, responsibility and accountability (including legal/ethical concepts), culture and argumentation with emphasis on the consultation role of the physical therapist. Restricted to majors. (PR: PHT 5022)

PHT 5171 BASIC SCIENCE I (4) Introduction to the peripheral neuromuscular, skeletal, integumentary, and circulatory systems in normal and pathological states. This includes the anatomy and physiology of bones, joints, skin, nerves, and blood vessels, as well as the response of these tissues to injury and their potential for healing. Topics will be correlated with PCM I. Restricted to majors.

PHT 5172C BASIC SCIENCE II (2) Emphasis on anatomy of the head, neck, and trunk and physiology of the internal organ systems. Restricted to majors. (PR: PHT 5171)

PHT 5173C BASIC SCIENCE III (2) Guided integrative study of the brain, central and peripheral nervous systems, infectious disease processes, systemic diseases, aging and the degenerative process. Includes the anatomy, physiology and functional components of the brain and its descending tracts with respect to motor control and learning. Restricted to majors. (PR: PHT 5172C)

PHT 5271 PATIENT/CLIENT MANAGEMENT I (3) A seminar in which basic principles of patient/client management are introduced. Also introduces students to the group learning and interactive process. Restricted to majors.

PHT 5272 PATIENT/CLIENT MANAGEMENT II (2) Seminar in which students apply principles of patient/client management. This course further develops the group learning and interactive process used throughout the curriculum. Restricted to majors. (PR: PHT 5271)
PHT 5273 PATIENT/CLIENT MANAGEMENT III (3) Seminar in which students apply principles of patient/client management to cases with increasing complexity (medical, functional, behavioral, psychodynamic, socioeconomic). Restricted to majors. (PR: PHT 5272)

PHT 5275C PHYSICAL THERAPY SCIENCE I (3) Introduction to basic physical therapy skills in examination, evaluation, diagnosis, prognosis, intervention and outcomes. Activities will be correlated with the tutorial case in PCMI. Restricted to majors.

PHT 5276C PHYSICAL THERAPY SCIENCE II (3) Further development and integration of basic physical therapy skills in examination, evaluation, diagnosis, prognosis, and intervention and outcomes. Restricted to majors. (PR: PHT 5275C)

PHT 5277C PHYSICAL THERAPY SCIENCE III (3) Integrative laboratory experience in skills for examination, evaluation, diagnosis, prognosis, and intervention for functional limitation and disability secondary to selected movement impairments. Restricted to majors. (PR: PHT 5276C)

PHT 5822 CLINICAL EDUCATION I (3) Initial clinical practice experience for the development of patient care skills. S/U. Restricted to majors.

PHT 5906 DIRECTED INDEPENDENT STUDY (1-10) Directed independent study, content to be decided. Restricted to majors.

PHT 6391 INTEGRATED BASIC AND CLINICAL SCIENCE I (2) Guided integrative study of normal development changes throughout the life span, issues of men’s and women’s health, autoimmune diseases (Guillain Barre, MS, HIV, Aids), genetic disorders of the brain, central and peripheral nervous systems. This course includes integration of complex pathological processes across multiple systems supported by guided anatomical dissection. Restricted to majors. (PR: PHT 5173C)

PHT 6392 INTEGRATED BASIC AND CLINICAL SCIENCE II (1) Application of foundational science to clients with complex, multisystem dysfunction. Restricted to majors. (PR: PHT 6391)

PHT 6521 MANAGEMENT OF PHYSICAL THERAPY SERVICES (3) Development of a budget and policies and procedures which comply with the Code of Ethics by application of theories of systems thinking, decision making, professional expression, responsibility and accountability (including legal/ethical concepts), culture and argumentation with emphasis on the administration role of the physical therapist. Implementation of a selected wellness project. Restricted to majors. (PR: PHT 5023)

PHT 6522 PROFESSIONAL DEVELOPMENT (2) Development of a strategic plan for professional growth which reflects commitment to all roles of the physical therapist - administration, consultation, critical inquiry, education, and patient/client management beginning with goals for Clinical Education II and III. Report on outcomes and efficacy of the wellness project. Restricted to majors. (PR: PHT 6521)

PHT 6731 ADVANCED PATIENT/CLIENT MANAGEMENT I (3) An advanced seminar in which students adapt principles of patient/client management to complex multi-system situations (medical, functional, behavioral, psychodynamic, socioeconomic). Restricted to majors. (PR: PHT 5273)
PHT 6732 ADVANCED PATIENT/CLIENT MANAGEMENT II (2) Advanced seminar in which students adapt principles of wellness and prevention to complex multisystem disorders in acute and chronic patient/client management. (PR: PHT 6731)

PHT 6735C ADVANCED PHYSICAL THERAPY SCIENCE I (4) Integrative laboratory experience in physical therapy skills of examination, evaluation, diagnosis, prognosis, intervention and outcomes for functional limitation and disability secondary to complex acquired and congenital disorders. Restricted to majors. (PR: PHT 5277C)

PHT 6736C ADVANCED PHYSICAL THERAPY SCIENCE II (2) Integrative laboratory experience in the design, implementation and justification of plans of care of disability secondary to complex multisystem disorders. Restricted to majors. (PR: PHT 6735C)

PHT 6823 CLINICAL EDUCATION II (5) First 7-week component of a 20-week clinical experience that takes place in an comprehensive center or cluster of centers. S/U. Restricted to majors. (PR: PHT 5822)

PHT 6824 CLINICAL EDUCATION III (12) Final 13-week component of a 20-week clinical experience that takes place in an comprehensive center or cluster of centers. S/U. Restricted to majors. (PR: PHT 6823)
COLLEGE OF NURSING

12901 Bruce B. Downs Blvd., MDC 22
Tampa, FL 33612
(813) 974-2191
WebAddress: http://www.med.usf.edu/PUBAFF/hsc/nursing1.html

Dean: Patricia Burns
Interim Associate Dean: Mary Tittle

Faculty: Theresa Beckie, Jason Beckstead, Joan F. Bezou, Candace Burns, Patricia Burns, Sarah Boyd*, Doris Campbell, Deborah Cantero, Debra Danforth, Kathy Echevarria, Grace Erickson, Mary Evans, Jane Fanning, Laurie Ferguson, Elaine Francis, Lois Gonzalez, Joanne Goot, Joan Gregory, JoAnne Grunow, Carole Holsonback, Rosemary Keller, Imogene King**, Cecile A. Lengacher, M. Charlene Long, Susan C. McMillan, Kathy Milholland, Jeanne Merritt, Nancy Menzel, Linda Moody, Phyllis A. Page, Judith A. Plawecki, Barbara Redding, Ona Z. Riggin, Elaine Slocumb, Rebecca Sisson, Mary Tittle, Mary L. VanCott, Mary Walker, Mary Webb

*Associate Professor Emeritus
**Professor Emeritus

Degrees Offered: M.S., Ph.D.
Specializations: Certificate: Post-Master's Nurse Practitioner Advanced Certificate

The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities.

The College of Nursing limits enrollment on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical resources for nursing practice experience for students. Florida residents are given priority. Applications from all qualified applicants are accepted without regard to age, sex, cultural, racial, religious, or ethnic background. This program is accredited by the National League for Nursing. Accreditation Commission, 61 Broadway, New York, NY 10006; (212) 363-5555 extention 153.

M.S. in Nursing

The program in Nursing leading to a Master of Science degree prepares its graduates for careers in advanced practice. The Family Health Nursing program is 50 hrs. All other concentrations are 44 hrs. Students choose from a variety of nursing specialty options in advanced practice roles and enroll in a prescribed set of core courses central to all specialty options student as well as specialty courses and electives.
Successful completion of the master’s program in advanced nursing practice (Adult, Health, Family Health, Child Health, Oncology Nursing, and Psychiatric-Mental Health) meets the eligibility requirements for advanced practice licensure (ARNP-nurse practitioner) in Florida and qualifies students to sit for specialty national certification examinations.

### Graduate Programs Objectives
Graduates of the M.S. in Nursing at the University of South Florida are prepared to:

1. Synthesize knowledge from the natural and social sciences, the arts and humanities, and the art of science of nursing in advanced practice nursing.
2. Apply principles of advanced nursing practice to improve health outcomes in culturally diverse and vulnerable populations.
3. Contribute to the advancement of the profession through research, consultation, collaboration, education, leadership and clinical excellence.
4. Influence the development of health policy through leadership as a clinical expert, client advocate, or professional participant in the health care delivery system.
5. Create a professional practice environment that values and integrates legal/ethical principles in the provision of quality health care.
6. Embrace the pursuit of life-long learning for professional development through participation informal and informal education.
7. Support excellence in health care delivery by utilizing research findings, participating in the research process and indentifying new issues for further investigative development.

### Additional Admissions Requirements
Admission to the program is competitive and is based on the satisfactory review of all required submitted materials and on the availability of adequate classroom, clinical facilities and faculty. Prospective students must submit evidence of the following:

1. Baccalaureate degree in nursing from an accredited program
2. Upper division GPA of 3.0 and combined score of 1000 or greater on the verbal and math sections of the GRE. Transcripts of all previous college work should be submitted.
3. Current licensure as a registered nurse in the State of Florida. One year or more of recent clinical practice is highly recommended.
4. Three letters of reference, indicating potential for graduate study, from persons who can attest to the applicant’s academic ability, clinical competence, and commitment.
5. A course in statistics, including introduction to probability and testing hypotheses.
6. An undergraduate research course and a health assessment course.
7. Personal interview (optional) with designated College of Nursing faculty (phone interviews are acceptable for out-of-state students).

A full-time student must take 9 hours per semester; part-time students are advised to take 5-6 hours per semester.

### Admission Requirements - Non-Degree Seeking Students
If space is available, non-degree seeking students may enroll in selected courses or elective courses if the applicant meets the following criteria:

1. A baccalaureate degree in nursing from an accredited program.
2. Upper division GPA of 3.0. Transcripts of all previous college work should be submitted.
3. GRE results pending.
5. An application for admission has been submitted.
6. Permission of the instructor teaching the course.
Non-degree seeking students may take no more than 12 hours of credit. Courses open to non-degree seeking students include NGR 6121 Theoretical Basis of Advanced Practice Nursing, NGR 6080 Family and Population Based Health, NGR 6140 Advanced Pathophysiology, and electives. Courses in the concentration and clinical courses are not open to non-degree seeking students.

**Program Requirements**

The M.S. program in nursing requires completion of a minimum of 44 hours for all concentrations except Family Health Nursing, which is 50 hours. Academic advisors work with students to design both full-time and part-time program plans in the specialty areas. The curriculum for all advanced practice concentrations includes the following components: theory-research component, advanced practice component, advanced practice specialty courses, and electives. A capstone comprehensive examination is required of students who elect the directed research or biostatistics option in lieu of a thesis.

The Master's Program is organized in four curriculum components:

1. **Theory-Research Component (9 credit hours)**
   - NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
   - NGR 6800 Nursing Research (3)
   - NGR 6971 Thesis (3)
   - or
   - NGR 6915 Directed Research (3) and Capstone Comprehensive Examination
   - or
   - PHC 6050 Biostatistics (3) and Capstone Comprehensive Examination

2. **Advanced Practice Component (15 credit hours)**
   - NGR 6140 Pathophysiology for Advanced Practice (3)
   - NGR 6155 Ethical, Legal, and Policy Issues in Advanced Practice (3)
   - NGR 6080 Family and Population Based Health Promotion (3)
   - NGR 6199 Pharmacology for Advanced Practice (3)
   - NGR 6001 Health Assessment for Advanced Practice (3)

3. **Advanced Practice Specialty Courses (17-26 credit hours depending upon the specialty)**
   - Adult
     - NGR 6204 Primary Care of Adolescents (2)
     - NGR 6206 Primary Care of Young and Middle Aged Adults (3)
     - NGR 6255 Primary Care of Older Adults (3)
     - NGR 6212L Advanced Practicum I in Adult Health (3)
     - NGR 6213L Advanced Practicum II in Adult Health (3)
     - NGR 6214L Advanced Practicum III in Adult Health (3)
     - Electives (3)
   - Child
     - NGR 6300 Primary Care of the Well Child (3)
     - NGR 6301 Primary Care of the Well Child II (3)
     - NGR 6204 Primary Care of Adolescents (2)
     - NGR 6302L Clinical Practicum I in Advanced Child Health Nursing (3)
     - NGR 6303L Clinical Practicum II in Advanced Child Health Nursing (3)
     - NGR 6304L Clinical Practicum III in Advanced Child Health Nursing (3)
   - Family
     - NGR 6300 Primary Care of the Well Child (3)
     - NGR 6301 Primary Care of the III Child (3)
     - NGR 6634 Primary Care of the Childbearing Family (2)
     - NGR 6204 Primary Care of Adolescents (2)
     - NGR 6206 Primary Care of Young and Middle Aged Adults (3)
Nursing

NGR 6255   Primary Care of Older Adults (3)
NGR 6617L  Practicum I in Family Centered Nursing (3)
NGR 6618L  Practicum II in Family Centered Nursing (3)
NGR 6619L  Practicum III in Family Centered Nursing (3)
NGR 6620L  Practicum IV in Family Centered Nursing (1) - Capstone

**Oncology**
NGR 6096   Oncology Nursing Concepts (3)
NGR 6142   Pathobiology of Neoplasia (3)
NGR 6206   Primary Care of the Young and Middle-Aged Adult (3)
NGR 6947   Practicum I in Advanced Oncology Nursing (3)
NGR 6948   Practicum II in Advanced Oncology Nursing (3)
NGR 6949   Practicum III in Advanced Oncology Nursing (3)
Electives (3)

**Psych/Mental Health**
NGR 6500   Scientific Foundation of Advanced Psychiatric Mental Health Nursing (3)
NGR 6501   Scientific Foundation of Advanced Psychiatric Mental Health Nursing II (3)
NGR 6508   Psychiatric Mental Health Nursing with Groups (2)
NGR 6509   Psychiatric Mental Health Nursing with Families (2)
NGR 6538   Psychopharmacology (1)
NGR 6500L  *Clinical Practicum I: Advanced Psychiatric Mental Health Nursing (1-4)
NGR 6501L  *Clinical Practicum II: Advanced Psychiatric Mental Health Nursing (1-4)
NGR 6503L  *Clinical Practicum III: Advanced Psychiatric Mental Health Nursing (1-4)
Elective (1)

* Students are required to complete a minimum of 9 credits in practicum courses.

**M.S./M.P.H. Dual Degree in Occupational Health Nursing**

The Interdisciplinary Dual Degree (M.S./M.P.H.) program in Occupational Health Nursing (OHN) is a collaborative endeavor between the College of Nursing and the College of Public Health. The purpose of the OHN specialty is to provide training to registered nurses to obtain advanced practice preparation in occupational health nursing and to be prepared as an adult nurse practitioner. Upon completion of the program, graduates are able to practice in direct care, administration, education, consultation, and research in occupational health nursing. Students earn both degrees concurrently in the 64 credit program which is comprised of 36 credits in Nursing (Core, OHN, and Adult Specialty, including clinical practicums) and 28 credits in Public Health (Core, Occupational Health Specialty, and Special Project).

Students are expected to complete the following minimum requirements:
College of Nursing Courses (36 credits)

NGR 6121   Theoretical Basis of Advanced Practice Nursing (3)
NGR 6140   Pathophysiology for Advanced Practice (3)
NGR 6199   Pharmacology for Advanced Practice (3)
NGR 6800   Nursing Research (3)
NGR 6001   *Health Assessment in Advanced Practice (3)
NGR 6650   Occupational Health Nursing I (2)
NGR 6651  Occupational Health Nursing II (2)
NGR 6204  Primary Care of Adolescents (2)
NGR 6206  Primary Care of Young/Middle-aged Adults (3)
NGR 6255  Primary Care of Older Adults (3)
NGR 6212L  *Advanced Practicum I in Adult Health (3)
NGR 6213L  *Advanced Practicum II in Adult Health (3)
NGR 6214L  Advanced Practicum III in Adult Health (3)
Capstone Comprehensive Examination

College of Public Health Courses (28 credits)
   PHC 6357  Environmental and Occupational Health (3)
   PHC 6000  Epidemiology (3)
   PHC 6050  Biostatistics I (3)
   PHC 6102  Principles of Health Policy Management (3)
   PHC 6423  Occupational Health Law (2)
   PHC 6360  Safety Principles and Practice (2)
   PHC 6356  Industrial Hygiene (2)
   PHC 6xxx  Occupational Medicine (2)
   PHC 6354  Occupational Health and Safety Administration (2)
   PHC 6310  Environmental/Occupational Toxicology (3)
   PHC 6977  Special Project (3)

   Comprehensive Examination

*Total 600 clinical clock hours (includes adulty health and occupational health).

Post-Master's Nurse Practitioner Advanced Certificate
Admission to this certificate program is through the Office of Student Affairs of the College of Nursing (813) 974–9305

Certificate Program Prerequisites/or Equivalents include:
   NGR 6140  Pathophysiology
   NGR 6001  Advanced Health Assessment
   NGR 6199  Advanced Pharmacology
   NGR 6155  Ethical, Legal and Health Policy Issues

Students may obtain a Post-Master’s Certificate in the following clinical areas: Adult Health, Child Health, Psych/Mental Health, Oncology Nursing, or Substance Abuse Nursing. The credit hours will vary depending on the area of specialization.

Registered Nurse to Master’s Degree Program (RN to MS)
The RN/MS option is designed for registered nurses who have earned a baccalaureate degree in another discipline. These students may be eligible for admission to the master’s program in nursing. The student must also complete the following courses at the undergraduate level before admission to the Master’s program: statistics, research, health assessment, community health theory, and community health clinical practice. Contact the Office of Student Affairs in the College of Nursing for more information at (813) 974-9305.

Associate Degree in Nursing to Master’s Degree (ADN to MS)
The ADN/MS option allows the Associate Degree in Nursing prepared nurse the opportunity to earn preparation as an advanced registered nurse practitioner. This curriculum will combine
learning opportunities and allow an ADN graduate currently studying in the baccalaureate program to apply for early enrollment in the Master's of Science in nursing program. Admission to this option begins with an undergraduate component and admission to the baccalaureate program. Students will complete 18 credit hours of coursework in the baccalaureate program. The student must then complete the GRE and the process for graduate school admission. With admission to the Graduate School and the graduate program in nursing, the student will complete the credit hours required for the program and selected specialization in the M.S. in Nursing. Contact the Office of Student Affairs in the College of Nursing for more information (813) 974-9305.

Ph.D. in Nursing

The Ph.D. prepares scholars to 1) generate and disseminate knowledge through independent and/or collaborative efforts; 2) conduct intra/interdisciplinary research; (3) assume leadership roles in nursing education and practice; 4) influence the delivery of health care services, especially for high risk and medically underserved groups; and 5) educate future generations of nurses for health care delivery in the 21st Century through the use of innovative intra/interdisciplinary educational approaches.

Additional Admission Requirements

Students who exceed or meet the following criteria will be given priority for admission:

1. Baccalaureate or master's degree in nursing
2. 3.0 GPA for upper division undergraduate work
3. 1100 GRE (verbal + quant.)
4. Graduate course in nursing research
5. Professional experience and demonstrated leadership in the discipline
6. Three letters of reference from current or previous employer, current or previous colleague, and a faculty member from the applicant’s master’s program familiar with the applicant’s academic ability and potential for doctoral study.
7. One page typewritten statement of professional goals and reason for pursuing doctoral education, including evidence of successful nursing practice and current involvement and leadership in professional organizations and commitment to doctoral study.
8. One page typewritten description of applicant’s proposed area of research for the doctoral dissertation.
9. A personal interview (on site or by telephone)
10. Copies of Thesis Abstract, Directed Research, or other scholarly works such as research posters, manuscripts, or publications may be submitted with the application.

Program Requirements

A minimum of 60 hours post-master's (90 hrs. post-baccalaureate) is required. The program can be completed in four years by full-time students and five or more years for part-time students. Specific program requirements are determined on an individual basis by the student’s advisory committee. To complete the degree, the following must be completed:

Knowledge Building (Theory and Research) - 18 Hrs.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Advances in Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>Research Designs and Methods in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>Statistical Methods in Nursing Research, I and II</td>
<td>6</td>
</tr>
<tr>
<td>Qualitative Methods in Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>Nursing Research Pro Seminar</td>
<td>3</td>
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Students may take additional courses in the minor and elective areas in qualitative or quantitative research from other departments on campus: anthropology, psychology, educational measurement, and biostatistics and epidemiology. Satisfactory completion of the Knowledge Building Core satisfies the research tools requirements and prepares students to successfully complete the dissertation research.

**Nursing Practice -12 Hrs.**

- Concepts in Nursing Practice 3
- Esthetics and Ethics in Nursing and Health Care 3
- Health Policy Issues in Nursing and Health Care 3
- Advanced Practice Pro-Seminar in Nursing 3

**Minor (12-15 Hrs.)**

Students select a minor area of study to further support the student’s area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the minor might be organizational administration, health policy and physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics, administration, applied anthropology, and educational measurement.

**Electives (3-6 Credit Hours)** May be taken in any graduate area.

**Qualifying Examinations**

**Dissertation (12-24 Hrs.)** complete and successfully defend a dissertation.

**Course Descriptions**

**NGR 6 INTERDISCIPLINARY PERSPECTIVES IN CULTURALLY SENSITIVE HEALTH CARE** (3) Focuses on interdisciplinary perspectives of culturally sensitive health care, including cultural beliefs, customs, and behaviors and their impact on health care practices of selected cultural groups.

**NGR 6001 HEALTH ASSESSMENT IN ADVANCED PRACTICE** (3) An advanced history and physical examination course designed to increase students competency in obtaining and recording systematic integrated physical examinations. The course covers examination across the human life space. (PR: NUR 3064C or equivalent; NGR 6140)

**NGR 6050 SPECIALIZED TECHNIQUES IN CHILD HEALTH ASSESSMENT** (3) Designed to teach the reliable administration and interpretation of the NCAST II instruments. Skill is gained in the use of four instruments. Inter-observer reliability will be achieved through observation of parent-child interactions.

**NGR 6080 FAMILY AND POPULATION-BASED HEALTH PROMOTION** (3) Focuses on the assessment of family and population groups for the purpose of planning, implementing, and evaluating nursing interventions for health promotion, health maintenance, and disease and injury prevention.

**NGR 6096 ONCOLOGY NURSING CONCEPTS** (3) Provides advanced oncology nursing content with a focus on nursing management of physical problems resulting from cancer and its treatment. (CI)
NGR 6097 PEDIATRIC ONCOLOGY NURSING (2) Emphasizes basic concepts in the pathogenesis of pediatric oncology and hematology. Also emphasized is the role of the advanced practice nurse in relation to the epidemiology and pathophysiology of specific types of cancers.

NGR 6121 THEORETICAL BASIS OF ADVANCED PRACTICE NURSING (3) Examination of knowledge development in nursing science. Emphasis given to evaluation of utility of theories and models from nursing and related fields in explaining and guiding advanced practice. Beginning skills in concept analysis/development included. (CI)

NGR 6140 PATHOPHYSIOLOGY FOR ADVANCED PRACTICE (3) Central concepts of pathophysiology: cells and tissues and organs and systems. Provides essential knowledge base in pathophysiology across the life space for advanced nurse practitioners. (CI)

NGR 6142 PATHOBIOLOGY OF NEOPLASIA (3) Emphasizes basic concepts of cellular differentiation and the abnormal cytologic changes occurring in the pathogenesis of neoplasia. Also emphasized is the role of the advanced practice nurse in relation to the role of the immune system and diet in oncogenesis, and the epidemiology and pathology of specific types of cancers. (CI)

NGR 6143 PATHOPHYSIOLOGIC CONCEPTS IN ACUTE CARE NURSING (3) This course will explore pathophysiologic mechanisms of the major body systems in critically ill patients across the lifespan. (PR: NGR 6140; NGR 6121; CI)

NGR 6155 ETHICAL, LEGAL, AND POLICY ISSUES IN ADVANCED NURSING PRACTICE (3) Primary emphases on contemporary ethical, legal, and policy issues related to advanced nursing practice and health care delivery. Issues are analyzed at the global, national, and local levels. Nursing’s role in agenda setting and strategies for health care reform are presented. (CI)

NGR 6194 SUBSTANCE ABUSE ACROSS THE LIFESPAN (3) Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.

NGR 6197 NURSING INTERVENTIONS INTO THE EFFECTS OF DRUG AND ALCOHOL ABUSE (2) Focuses on the assessment and treatment of individuals and families who are in the acute phase of addiction. Emphasis will be placed on treatment outcomes for designated populations with consideration for cultural, socioeconomic, political, and legal/ethical factors.

NGR 6198 NURSING INTERVENTIONS IN THE REHABILITATION OF CLIENTS WITH DRUG OR ALCOHOL ABUSE (2) Focuses on models of treatment and interventions for clients and families who are in the rehabilitation and maintenance phases of substance abuse. Emphasis will be placed on rehabilitation outcomes for designated populations with consideration for cultural, socioeconomic, political and legal/ethical factors.

NGR 6199 PHARMACOLOGY FOR ADVANCED PRACTICE (3) This course for advanced nurse clinicians is a learning experience designed to provide a current knowledge base and to promote and encourage life-long learning in pharmacology. Lectures, interactions with faculty, and examinations are utilized to stimulate and to evaluate the knowledge base of students in the discipline of pharmacology. (PR: NGR 6140, CI)
NURSING 6204 PRIMARY CARE OF ADOLESCENTS (2) Focuses on selected concepts, theories and research applied to the health promotion, health maintenance, prevention of illness, and the clinical management of epidemiologically significant health problems of culturally diverse adolescents. (PR: NGR 6001, NGR 6140, NGR 6199).

NGR 6206 PRIMARY CARE OF YOUNG AND MIDDLE-AGED ADULTS (3) Focuses on selected concepts, theories and research applied to the health promotion, health maintenance, prevention of illness, and the clinical management of epidemiologically significant health problems of young and middle-aged adults. (PR: NGR 6001, NGR 6140, NGR 6199, CI)

NGR 6212L PRACTICUM I, ADULT HEALTH (3) Provides the clinical experiences necessary for the development of competencies as an adult nurse practitioner. Practicum I focuses on health promotion and prevention of illness. (PR: NGR 6140, NGR 6001, NGR 6199; CO; NGR 6204 or NGR 6206 or NGR 6255 - 1:4 ratio)

NGR 6213L PRACTICUM II, ADULT HEALTH (3) Provides the clinical experiences necessary for the development of competencies as an adult nurse practitioner. Builds on Practicum I. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6212L; CR: NGR 6204 or NGR 6206 or NGR 6255 1:4 ratio)

NGR 6214L PRACTICUM III, ADULT HEALTH (3) Provides the clinical experiences necessary for the development of competencies as an adult nurse practitioner. Builds on Practicum I and II. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6212L; CR: NGR 6204 or NGR 6206 or NGR 6255 1:4 ratio)

NGR 6232 SELECTED CONCEPTS IN THE ACUTELY ILL ADULT (3) This course analyzes the multiple needs of the critically ill adult. Focuses on age specific critically ill population. Examines the response to the experience of critical illness. (PR: NGR 6140, NGR 6143)

NGR 6243 CLINICAL MANAGEMENT OF THE ACUTELY ILL ADULT (3) Focuses on advanced therapeutics and clinical management of selected acute health problems of adults. Diagnostic reasoning and intervention strategies are emphasized. (PR: NGR 6001, NGR 6143, CI)

NGR 6255 PRIMARY CARE OF OLDER ADULTS (3) Emphasis is placed on the functional ability of the older adult. Normal biological aging changes, developmental tasks, psychological, cultural and spiritual dimensions. The focus is on health promotion, disease prevention and management of acute chronic illness of culturally diverse older adults. (PR: NGR 6001, NGR 6140, NGR 6199, CI)

NGR 6258 ADVANCED PRIMARY CARE OF OLDER ADULTS (3) Provides in-depth knowledge of: demographic, comparative, and differential aging; geriatric anatomy and physiology; the biological influence on aging psychology; the control of aging sociology; geriatric pharmacology; management of geriatric syndromes; and management of multiple diagnoses. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6255, CI)

NGR 6259 GERONTOLOGICAL NURSING PRACTICUM: CASE MANAGEMENT (1-9) Students will apply gerontological theories and assessment techniques in the advanced care of the elderly (1:6 ratio). (PR: NGR 6255, NGR 6001, NGR 6140, NGR 6199)
NGR 6300 PRIMARY CARE OF THE WELL CHILD (3) This course focuses on the common primary health concerns of children. Emphasis is on assessment, promotion and maintenance of wellness, and prevention of illness. Research and theory related to child growth and development, parenting skills, and common health risks form the basis of study of children from birth through age 12. (PR: NGR 6001, NGR 6140, CI)

NGR 6301 PRIMARY CARE OF THE ILL CHILD (3) This course focuses on the health problems commonly seen in children in ambulatory settings. Emphasis is placed on the pathophysiology, diagnosis and treatment of selected illnesses and management of acute and chronic health problems in children from birth to age 12. (PR: NGR 6001, NGR 6140, CI)

NGR 6302L CLINICAL PRACTICUM I IN ADVANCED CHILD HEALTH NURSING (3) This first practicum course provides the clinical experiences necessary for the development of competencies as a Pediatric Nurse Practitioner. Emphasis is on history taking, physical assessment, critical thinking, and developing a research based practice. (PR: NGR 6001, NGR 6140; CI - 1:4 ratio)

NGR 6303L CLINICAL PRACTICUM II IN ADVANCED CHILD HEALTH NURSING (3) This second practicum course provides the clinical experiences necessary for the development of competencies as a Pediatric Nurse Practitioner. Emphasis is on differential diagnosis and developing treatment plans. (PR: NGR 6140, NGR 6001, 1-4 ratio; CI)

NGR 6304L CLINICAL PRACTICUM III IN ADVANCED CHILD HEALTH NURSING (3) This third practicum course provides the clinical experiences necessary for the development of competencies as a Pediatric Nurse Practitioner. Emphasis is on role transition, collaborative, practice, and integrating a broad knowledge base into responsible legal and ethical practice. (PR: NGR 6140, NGR 6001; CI 1-4 ratio)

NGR 6313 SELECTED CONCEPTS IN ACUTELY ILL INFANTS AND CHILDREN (3) This course analyzes multiple needs of critically ill infant and/or children and their families. Focuses on age-specific morbidity, management and responses related to critical illnesses. (PR: NGR 6140, NGR 6143)

NGR 6500 SCIENTIFIC FOUNDATION OF ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING I (3) Theoretical basis for advanced practice in Psychiatric Mental Health Nursing. Course will include selected theories, models and crisis intervention. Advanced role functions for psychiatric mental health nursing are emphasized. (PR: NGR 6121)

NGR 6500L CLINICAL PRACTICUM I: ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING (2) Clinical Experience in advanced psychiatric mental health nursing that focuses on comprehensive mental health assessment, crisis intervention and psycholterapeutic interventions with individuals (1:4 ratio)

NGR 6501 SCIENTIFIC FOUNDATION OF ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING II (2) An examination of advanced psychobiological and psychodynamic models, theories, and interventions. Course content will focus on advanced nursing interventions into dysfunctional patterns of behavior.

NGR 6501L PRACTICUM II: ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING (1-4 var.) Clinical experience in advanced psychiatric mental health nursing that focuses on psycholterapeutic interventions with individuals and groups from diverse sociocultural populations (PR: NGR 6500L, CI; 1:4 ratio)
NGR 6503L PRACTICUM III: ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING (1-4) Clinical experience in advanced psychiatric mental health nursing that focuses on individual, group, and family community interventions with culturally diverse populations. (PR: NGR 6500L, NGR 6501L, 1:4 ratio)

NGR 6508 PSYCHIATRIC MENTAL HEALTH NURSING WITH GROUPS (2) An examination of advanced group models, theories and interventions. Course content will focus on advanced nursing interventions with groups.

NGR 6509 PSYCHIATRIC MENTAL HEALTH NURSING WITH FAMILIES (2) The focus is on the theoretical and conceptual foundation for the specialized practice of psychiatric mental health nursing with families. Family theories, conceptual models and intervention strategies with families in a variety of settings are analyzed. Current research is examined.

NGR 6511 GEROPSYCHIATRIC NURSING (3) Focuses on theoretical implications and foundations for providing geropsychiatric nursing care for the elderly who have been diagnosed or have potential emotional/mental problems with emphasis of various therapies in a variety of clinical settings. (CI)

NGR 6538 PSYCHOPHARMACOLOGY IN ADVANCED NURSING PRACTICE (1) Focuses on the pharmacokinetics of anti-anxiety, antidepressants, and anti-psychotic medications. Emphasis will be placed on assessment, indication for medication, dosage requirements, side effects monitoring and, client teaching. (PR: NGR 6140, CI)

NGR 6617L PRACTICUM I, FAMILY CENTERED NURSING (3) Provides experiences necessary for the development of clinical competencies as a family nurse practitioner for providing primary care to clients across the life span. The student is provided a variety of clinical experiences in multi-cultural settings. (PR: NGR 6001, NGR 6140; NGR 6300 or NGR 6301 or NGR 6204 or NGR 6634 or NGR 6206 or NGR 6525; CO: NGR 6199 - 1:4 ratio)

NGR 6618L PRACTICUM II, FAMILY CENTERED NURSING (3) Focuses on the advanced clinical competencies necessary for providing primary care to clients across the life span. The family health practitioner student is provided a variety of clinical experiences in multi cultural settings. Builds on Practicum I. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6617, one of NGR 6300, NGR 6301, NGR 6204, NGR 6634, NGR 6206, NGR 6255 - 1:4 ratio)

NGR 6619L PRACTICUM III, FAMILY CENTERED NURSING (3) Provides for the integration of advanced clinical competencies into practice when providing primary care to clients across the lifespan. The family health practitioner student is provided a variety of clinical experiences in multi cultural settings. Builds on Practicum I and II. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6617L, NGR 6618L, one of NGR 6300, NGR 6301, NGR 6204, NGR 6634, NGR 6206, NGR 6255 - 1:4 ratio)

NGR 6620 STRATEGIES FOR COMMUNITY HEALTH NURSING (3) Examines the variables that influence and guide community health nursing practice, and the application of relevant nursing concepts and theories. (PR: Concurrent NGR 6121 or CI)

NGR 6620L PRACTICUM IV, FAMILY CENTERED NURSING (1) This final clinical course in family health provides for the integration of advanced clinical competencies into practice when providing primary care to multi cultural families in a variety of settings. This practicum can be taken concurrently with Practicum III. (PR: NGR 6001, NGR 6140, NGR 6199, NGR 6617L, NGR 6618L, one of NGR 6300, NGR 6301, NGR 6204, NGR 6634, NGR 6206, NGR 6255 - 1:4 ratio)
NGR 6634 PRIMARY CARE OF CHILD BEARING FAMILIES (2) This course focuses on health promotion, health maintenance, differential diagnosis and management of common acute and chronic problems of child bearing families. Emphasis is on the specialized knowledge necessary to provide primary care to this population. (PR: NGR 6001, NGR 6140, CI)

NGR 6650 OCCUPATIONAL HEALTH NURSING I (2) Primary care of the worker relative to health promotion/risk reduction/acute injuries/chronic conditions, assessment of the workplace and needs of worker aggregates, and planning for health services relative to worker lifestyles and risk factors. (PR: CI)

NGR 6650L CLINICAL EXPERIENCES IN OCCUPATIONAL HEALTH NURSING I (1) Clinical experiences at selected worksites to apply content from NGR 6650 Occupational Health Nursing with an emphasis on analysis of the workplace and worker aggregates, occupational health nurse(s) roles/functions. (PR: CI)

NGR 6651 OCCUPATIONAL HEALTH NURSING II (2) Focuses on the synthesis of interdisciplinary knowledge for developing, implementing, and evaluating comprehensive occupational health programs; applying the principles of nursing informatics, health promotion, adult education and quality assurance; analysis of effects of managed care; identification of occupational health problems needing research. (PR: NGR 6650, PHC 6650, PHC 6356, PHC 6360)

NGR 6651L CLINICAL EXPERIENCES IN OCCUPATIONAL HEALTH II (1) Clinical experiences relative to the application of content in NGR 6650 Occupational Health Nursing II with a focus on workplace assessment utilizing a comprehensive instrument and evaluation of worker’s compensation managed care programs. (PR: CI)

NGR 6790 CONSULTATION LIAISON NURSING (3) Examines the evolution of the consultation/liaison role for advanced practice nurses with emphasis on the consultation process in a variety of clinical settings. (PR: Clinical and Theoretical courses for clinical concentration, or CI)

NGR 6xxx INTERDISCIPLINARY PERSPECTIVES IN CULTURALLY SENSITIVE HEALTH CARE (3) Focuses on interdisciplinary perspectives of culturally sensitive health care, including cultural beliefs, customs, and behaviors and their impact on health care practices of selected cultural groups.

NGR 6794 INTERDISCIPLINARY TEAM BUILDING (3) Focuses on interdisciplinary team building among health professionals from medicine, nursing, social work and public health for the purpose of professional socialization and ability to work together for providing collaborative rural health care. (PR: CI)

NGR 6795L INTERDISCIPLINARY CLINICAL / FIELD EXPERIENCE (3) Interdisciplinary clinical / field experience in medically underserved rural communities for the purposes of participation in primary care clinical experiences and to conduct community health projects. (PR: CI)

NGR 6800 NURSING RESEARCH (3) Research designs and methods for nursing with primary emphasis on these topics: critique of research studies, researchable problems, research designs, instruments and other data collection methods, approaches to data analyses using computer applications, and preparation of research proposals for thesis, directed research, or funded research.
NGR 6822 MEASUREMENT FOR NURSING EDUCATION AND RESEARCH (3) Course purposes are to increase skill in measurement of nursing variables as part of the research process, to enhance ability of nurse educators to identify or develop valid and reliable measurement instruments for evaluation of students, clients and educational programs. (CI)

NGR 6905 INDEPENDENT STUDY (1-6) Specialized individualized study determined by students’ needs and interests; requires an approved contract with a faculty member. S/U. (CI)

NGR 6915 DIRECTED RESEARCH (1-4) Var. Rpt. Builds on knowledge gained in NGR 6800 and specialty concentration by participating in a research project under the direction of selected faculty. (PR: NGR 6800)

NGR 6931 SELECTED TOPICS (1-4) Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty. (CI)

NGR 6944 PRACTICUM IN ACUTE CARE NURSING (1-9) Clinical experiences in critical care settings focusing on the role of the advanced practice nurse (1:4 ratio). (PR: NGR 6143, NGR 6333 or NGR 6232, CI

NGR 6947L PRACTICUM I IN ADVANCED ONCOLOGY NURSING PRACTICE (3) Provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer. Practicum I emphasizes assessment and documentation skills and prevention and early detection of cancer. (PR: NGR 6140, NGR 6199, NGR 6001, NGR 6121, NGR 6080, NGR 6155, NGR, 6096, NGR 6142, NGR 6206 - 1:4 ratio)

NGR 6948L PRACTICUM II IN ADVANCED ONCOLOGY NURSING PRACTICE (3) Provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer. Practicum II emphasizes diagnostic reasoning, clinical management and interdisciplinary collaboration in care of the adult with cancer and builds on Practicum I. (PR: NGR 6199, NGR 6140, NGR 6001, NGR 6121, NGR 6155, NGR, 6096, NGR 6142, NGR 6206, NGR 6947L, 1:4 ratio)

NGR 6949L PRACTICUM III IN ADVANCED ONCOLOGY NURSING PRACTICE (3) Provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer. Emphasis is on evidenced based practice, evaluating clinical outcomes, professional role development and legal and ethical aspects. Practicum III builds on the objectives of Practicums I & II. (PR: NGR 6199, NGR 6140, NGR 6001, NGR 6121, NGR 6155, NGR 6080, NGR, 6096, NGR 6142, NGR 6206, NGR 6947L, NGR 6948L, 1:4 ratio)

NGR 6971 THESIS (1-19) Var. Rpt. (PR: NGR 6800, CI)

NGR 7810 ADVANCES IN NURSING SCIENCE (3) Focus on history and philosophy of science: history and development of nursing’s scientific knowledge base and theoretical progress. Emphasis methods of theory building and theory testing through research. Explore progress in middle range theories and areas of high priority of additional research for the discipline.
NGR 7811 RESEARCH DESIGNS AND METHODS IN NURSING (3) Focus on designs used in nursing research to test or develop theoretical models, or concepts, including clinical or outcome variables, or hypotheses. Emphasis on quantitative designs.

NGR 7830 QUALITATIVE RESEARCH METHODS IN NURSING (3) An overview of qualitative research methods in nursing, identification of problems appropriate for qualitative research methods, and application of appropriate qualitative research method to a researchable problem. (PR: NGR 6800)

NGR 7841 STATISTICAL METHODS IN NURSING RESEARCH I (3) Standard parametric and nonparametric statistical methods in nursing research; role of assumptions and theory in selecting the appropriate statistic for testing hypotheses/research questions. Emphasis on analysis of variance and simple linear regression. Statistical software applications are integrated into the course. (PR: NGR 6800 or equivalent and statistics)

NGR 7842 STATISTICAL METHODS IN NURSING RESEARCH II (3) Focus on advanced multivariate methods in nursing research: regression (linear, multiple, logistic) and multiple analysis of variance (MANOVA) and covariance (MANCOVA), canonical correlation, discriminant and path analysis. Statistical software applications are integrated into the course. (PR: NGR 7841)

NGR 7905 DIRECTED READINGS (1-6) Specialized independent study determined by individualized students' needs and interests.

NGR 7910 CONCEPTS IN NURSING PRACTICE (3) Emphasis on analysis of phenomena (concepts) that impact on nursing practice. Phenomena are selected and analyzed from theoretical and research perspective.

NGR 7911 ESTHETICS AND ETHICS IN NURSING AND HEALTH CARE (3) Explores issues and research in esthetics (curative factors-art of healing) and ethics in advanced practice. Focuses on use of alternative approaches to healing and application of ethical decision making models to complex health care issues.

NGR 7912 HEALTH POLICY ISSUES IN NURSING AND HEALTH CARE (3) Use of data bases to develop approaches for decision making, policy formulation and outcome evaluation. Focus on policy analysis, agenda setting, and factors affecting nursing and health care policy. (PR: Statistical Methods I and II, or CI)

NGR 7915 ADVANCED DIRECTED RESEARCH IN NURSING (1-6)

NGR 7940 ADVANCED CLINICAL RESEARCH PRO SEMINAR (3) The clinical arena provides the research laboratory to explore clinical or management problems. Students are matched with a mentor who has expertise in the student’s selected area of study. (PR: NGR 7910)

NGR 7941 NURSING RESEARCH PRO SEMINAR (3) The Pro seminar provides didactic and experiential opportunities for students in measurement, testing innovative methods and technologies in a variety of field settings. Seminars designed to critique current research in the area.

NGR 7980 DISSERTATION RESEARCH (3) Directed research and writing of dissertation topic appropriate to the discipline. (PR: Admission to Candidacy)
The College of Public Health provides coursework, research methods, and field experiences to prepare students in the public health professions for the challenging health problems facing the State, nation, and other countries. The field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Business, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College's four departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Health Policy and Management. The College is fully accredited by the Council on Education for Public Health.

Core content is directly related to addressing and meeting public health issues. Off campus programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes and state-of-the-art distance learning classes at numerous sites throughout the state.

The College hosts several centers that augment the learning opportunities for students, including the Florida Health Information Center, Institute on Aging, National Social Marketing Training Center, Center for Product Ergonomics, The Lawton and Rhea Chiles Center for Healthy Mothers and Babies, Public Health Leadership Institute of Florida, The James and Jennifer Harrell Center for the Study of Domestic Violence, Florida Prevention Research Center, Sunshine Educational and Research Center, Center for Disaster Management and Humanitarian Assistance, Center for Environmental/Occupational Risk Analysis and Management, and The Deep South Agricultural Health and Safety Center.

**Degrees Offered:** M.P.H., M.S.P.H., M.H.A., Ph.D.

**Master of Public Health (M.P.H.)**

**Specializations:**

- Accelerated M.P.H. in Public Health Education (for undergraduates only)
- Biostatistics
Environmental Health
Epidemiology
Health Care Organizations and Management
Health Policies and Programs
International Health Management

Master of Public Health (M.P.H.)
- Maternal and Child Health/Clinical Social Work (M.P.H./M.S.W. dual degree)
- Occupational Health for Health Professionals
- Occupational Health Nursing (M.S./M.P.H. dual degree)
- Occupational Medicine Residency
- Public Health Education
- Safety Management
- Toxicology
- Tropical Public Health/Communicable Disease

Master of Science in Public Health (M.S.P.H.)
Specializations:
  - Refer to each department

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

Doctor of Philosophy (Ph.D.)
Specializations:
  - Refer to each department

Certificate in Infection Control (See Graduate Certificates section for description and requirements)

**General Program Requirements**

**Additional Admission Requirements (all programs)**
Applications are accepted each semester, but it is recommended that prospective students apply for Fall semester in order to best accommodate the sequence of courses in the concentration areas. **Ph.D. applications must be received by December 15 to be considered for admission the following Fall Semester.** Students considering admission to the Public Health program who do not have adequate courses or training in the health and human biological sciences may be required to take HSC 4554 Survey of Human Disease or equivalent, and HSC 4203 Introduction to Public Health. Other requirements for proficiency in specific content areas may be set by departments as a condition of/or prior to admission. In many departments, prospective Master's students may apply for any of the three semesters.

Students who are qualified to enroll, but do not have the required documents by the application deadline dates, or those who do not intend to work toward a graduate degree, can complete up to 12 hours as non-degree seeking students. Grades of "B" or higher will be considered for transfer to the student’s program when the student is accepted as degree-seeking. Those planning to enroll as non-degree seeking students are advised to contact the Office of Academics at (813) 974-6665 or toll free 1-888-USF-COPH for more detailed program information and (813) 974-6610 for registration guidelines.
Admission to any of the programs is competitive and dependent upon a favorable evaluation by the department to which the student is applying. Applicants are expected to meet the minimum requirements of the University, College and individual departments. Meeting minimum requirements does not guarantee admission. Applicants who have advanced professional or terminal academic degrees (e.g. M.D., D.D.S., Ph.D., J.D. etc.) may request to have the GRE or GMAT requirement waived. Departments may have additional requirements and prerequisites. See Program Descriptions for details.

Beginning in Fall, 2000 students are expected to have access to a laptop computer during their educational program. Prior to purchasing a laptop, students should contact the College Advisement Office at 813-974-6665 for laptop specifications.

**Comprehensive Examination**

The Comprehensive Examination is a requirement for all students seeking an M.P.H., M.S.P.H. or M.H.A. degree in the College of Public Health. To be eligible for the examination, a student must have:

1. completed all required core courses
2. completed all or currently enrolled in required concentration area courses;
3. attained a 3.0+ GPA and be in good graduate standing;
4. met with their advisor to determine eligibility;
5. enrolled for minimum of two (2) semester hours during the semester of the Comprehensive Examination;
6. at least one month prior to the examination date, the student must submit to the Office of Academics, the Comprehensive Examination Application, which has been approved by the student’s advisor and department chairperson.

The written Comprehensive Examination will focus on the student’s concentration and the core public health courses. The content of the examination will include the breadth of the field of public health as represented in the student’s course work. Students retaking the exam must formally reapply through their advisor, departmental chairperson and the Office of Academics. Each department will determine the format of the single retake of the examination. Comprehensive exams will be given on the Friday of the first full week of November, March and June. Each department has detailed written guidelines.

**Field Experience.**

All M.P.H. students are required to complete a field experience. The type and length of the field experience is dependent on the student’s background and experience, and is determined by the academic advisor. All M.H.A. students are expected to complete an internship. Each department has written guidelines.

**Degree Requirements for the Doctor of Philosophy (Ph.D.)**

Applicants must register as full-time students (a minimum of 9 credits per semester of substantive course work) for at least two consecutive semesters during their program.

Students lacking a master’s degree in Public Health must take nine (9) hours of prerequisite public health core courses. A student who has a master’s degree may be required to take those public health courses which have not been included in previous master’s study. Doctoral students will be required to take a more advanced biostatistics course than PHC 6050. The student’s doctoral advisory committee will approve the plan of study. Courses offered by other colleges may be used when appropriate. All approved doctoral program plans of study must be submitted to the Office of Academics.
Credit Hours: A minimum of 90 credit hours beyond the baccalaureate degree is required, including the following:

- Advanced biostatistics course: 3 hours
- Required courses for concentration area or equivalent: 12 hours
- Required doctoral level courses: 13 hours
- Elective courses
- Directed research
- Dissertation: 18 hours minimum
- Evidence of teaching proficiency
- Tools of research (2 areas)

Each department has written specific guidelines for comprehensive examinations, dissertation, and final oral defense.

Attendance Policy
It is the policy of the College of Public Health that a student will not be automatically dropped if they do not attend the first class of each semester. However, it is the responsibility of the student to notify the course instructor if they cannot attend the first class.

Graduate Assistantships
Graduate Assistantships are available through each department in the College. Application deadline dates are: Fall - April 1st, Spring - November 1st, Summer - February 1st. Applications are forwarded to all prospective applicants once the application for admission to Graduate Studies has been received.

U.S. Public Health Traineeships
The College of Public Health cooperates with the U.S. Public Health Service in offering traineeships to our students. A traineeship is an award based on need which will help to defray part of a student’s educational expenses. The recipient of a traineeship is encouraged to participate in departmental activities and research. The traineeship award includes a full tuition waiver as well as a stipend. To be eligible for an award, a student must be matriculated full-time in one of the following areas: epidemiology, biostatistics, environmental health, toxicology, or public health education. The availability of traineeships is entirely dependent on federal funds, and they are therefore awarded solely on a semester basis. Students will be notified when funds are available. Awards are made by the departments upon recommendation of a departmental committee. Applicants must be U.S. citizens or permanent residents.

The National Institute of Occupational Safety and Health Traineeships
Traineeships are offered to accepted students in Industrial Hygiene/Safety Management Program, and Occupational Health Nursing M.S./M.P.H. Dual Program. The traineeship award includes a tuition waiver for 9 hours, as well as a stipend. Applicants must be U.S. citizens or permanent residents. Applications are forwarded to all prospective applicants once the Application for Admission to the Graduate School has been received.

Maternal-Child Health (MCH) Traineeships
Traineeships are available to Florida residents and non-resident students admitted to the M.P.H. or Ph.D. programs in Maternal and Child Health within the Department of Community and Family Health. Traineeships provide student stipends and/or financial assistance toward tuition costs. The availability of MCH Traineeships is dependent on annual funding. Competitive awards are made on the basis of the following criteria: 1) students should hold a degree recognized by their own profession as conferring professional status in an MCH relevant field, 2) at least
two years of professional experience related to MCH, and 3) career goals consonant with a commitment to MCH. Applications are forwarded to all prospective applicants once the Application for Admission to the Graduate School has been received.

**The Carl A. Gelin Endowed Fellowship**
This program provides financial support to students in the Department of Health Policy and Management. The award is made by the department.

**Florida Public Health Association (FPHA)**
Accepts application/nominations for FPHA Scholarships -- $500 for M.P.H. or M.S.P.H. candidates. Letters should include: present position, future goals and ambitions, and past and present academic activities. Scholarship applicants must be FPHA members. Inquiries or nominations should be directed to: College of Public Health, Florida Public Health Association, 13201 Bruce B. Downs Blvd., Tampa, FL 33612, (813) 974-6665 or toll free 888-USF-COPH.

**M.P.H. in Public Health Practice**
The Master of Public Health with a focus in Public Health Practice is a college-wide program designed to prepare experienced health professionals to assume leadership roles as members of multidisciplinary teams and to effectively develop, implement, and evaluate programs which have an impact on the health of the public. Students in the program will learn skills related to public health practice; problem analysis and inferences from data; developing and adapting approaches to problems that take into account cultural, social, economic, ethical, and legal factors; community-based health policy and program planning; budgeting and management. Only health professionals with a minimum of three years experience are admitted to this program. Students must meet minimum University admission requirements.

The M.P.H. in Public Health Practice has two primary program formats: distance learning and the Executive format.

**Distance Learning Format**
The distance learning format typically consists of a live, two-way audio and one-way video link for instructional delivery to designated Host Sites throughout the state of Florida. Host Sites are able to accommodate from 6 to 25 students and are located primarily in county public health units. This is a part-time program.

Courses are available in a distance learning format in the Fall, Spring, and Summer semesters. Students are expected to have a basic level of computer proficiency, as well as E-mail capability and access to the Internet. The time required to complete this program ranges from approximately three to five years, depending on time of entry into the program, course sequence and availability, and student circumstances and academic status.

**Executive Format**
The Executive M.P.H. in Public Health Practice accommodates the demanding schedule of today’s health professional by enabling him/her to complete a fully accredited degree over approximately 20 months. Participants in this program are expected to commit to a schedule of five two-week resident sessions held in Tampa. Students will have home and computer assignments between sessions. The Executive M.P.H. has additional program fees.
Program Requirements

Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Public Health Practice Required Courses
- PHC 6XXX Information Management in Public Health Settings (3)
- PHC 6006 Epidemiology of Diseases of Major Public Health Importance (3)
- PHC 6XXX Public Health Seminar: Ethics, Policy, and Law in Public Health (3)
- PHC 6XXX Public Health Seminar: Public Health Practice (3)

Supplemental Courses
Occasionally, other courses may be substituted with consent of advisor
- PHC 6190 Management of Public Health Programs (3)
- PHC 6411 Introduction to Social Marketing (3)
- PHC 6XXX Community Partnerships and Advocacy (3)
- PHC 6945 Supervised Field Experience (1-12)
- PHC 6977 Special Project (3)

Comprehensive Examination
Total Hours 40-51

Course Descriptions

Refer to course listing of program that offers the course for a full course description. Courses offered by the college are listed below.

PHC 6930 PUBLIC HEALTH SEMINAR (3) Interaction of faculty, students and select health professionals in relation to public health issues and research. S/U Rpt up to 6 credits (PR: GS)
Community and Family Health

13201 Bruce B. Downs Boulevard, MDC 56
Tampa, FL 33612
(813) 974-4867
e-mail address: advisor@hsc.usf.edu
WebAddress: http://www.hsc.usf.edu/publichealth

Chairperson: Robert McDermott
Program Director: Robert McDermott


Degrees Offered: M.P.H., M.S.P.H., Ph.D.
Specializations: Public Health Education, Accelerated M.P.H. (for undergraduates)
Community and Family Health (M.S.P.H.)
Maternal and Child Health (M.P.H.)
Maternal Child Health/Clinical Social Work (M.P.H./M.S.W. dual degree)
Public Health Education
Social and Behavioral Science/Public Health (M.S.P.H. and Ph.D. only)

The Department of Community and Family Health seeks to improve the health status of the family through an interdisciplinary approach of providing preventive, curative, and rehabilitative health care services within the community. Programs offered through the Department focus on: (1) the analysis of the health status and needs of a population including social, behavioral, and demographic factors and characteristics; (2) health promotion and education; (3) client intervention strategies; (4) nutrition sciences and related program development; and (5) administration and management of maternal-child health care services.

M.P.H. in Public Health Education, Accelerated Program

The accelerated entry program provides an opportunity for undergraduate students, who meet specific eligibility requirements, to earn a Master's degree without first completing their baccalaureate studies. Individuals begin the Master's course of study after completion of 90 undergraduate hours. Full-time students are able to complete the required coursework within 2 to 2 1/2 years. Students are encouraged to explore this program option and consult with a health education program advisor during the academic term in which they expect to complete 60 hours. Students must meet minimum University admission requirements.
Additional Admission Requirements

1. Applicants to the accelerated entry program in public health education must have completed 90 undergraduate hours in a program related to the field of Public Health. These programs include social sciences, natural science, behavioral sciences, pre-med, nursing, education, etc. It is recommended that students consult the department’s health education faculty concerning undergraduate coursework after completing 60 semester hours.

Program Requirements

Accelerated entry into the M.P.H. requires at least 60 hours of classroom study in addition to a field experience. Minimum coursework requirements:

Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Program Introductory Courses (or Equivalent)
- HSC 4203 (3)
- HSC 4541 (3)
- HSC 4554 (3)
- MHS 4052 (4)

Concentration Area Courses
- PHC 6500 (3)
- PHC 6508 (3)
- PHC 6505 (3)
- PHC 6507 (3)
- PHC 6707 (3)

Suggested Support Courses
- PHC 6505 (3)
- PHC 6506 (3)
- PHC 6422 (3)
- PHC 6533 (3)
- PHC 6414 (3)
- PHC 6411 (3)

- PHC 6977 Special Project (3 hours)
- PHC 6945 Field Experience (minimum 6 hours)

Comprehensive Examination

Total 65 hours

M.S.P.H. in Community and Family Health

In the Department of Community and Family Health, the Master of Science in Public Health (M.S.P.H.) degree prepares students for careers oriented toward research and evaluation in community and family health. Call 974-6665 for extensive program guidelines.

Additional Admission Requirements

1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements

The degree requirements include the successful completion of three selected College of Public Health core courses, specialization area courses, research methods courses, thesis, public health
seminars and a comprehensive examination. At least 12 hours of coursework exclusive of the thesis must be taken with the Department of Community and Family Health.

**College Core Courses**

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**Specialization Area Courses**

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**Research Methods Courses**

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**Other Approved Electives**

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**Total**

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*Public mental health MSPH requires 12 of College core course work.

**M.P.H. in Maternal and Child Health**

The program of study is designed for individuals representing a broad spectrum of health and human service professions: medicine, nursing, social work, nutrition, rehabilitation, early childhood education, health education, speech and hearing, social sciences and other health and human service professions.

The graduate program in maternal and child health prepares health professionals in a multidisciplinary, community-based approach to serve the public health care needs of women, children and their families. The curriculum enables students to acquire an in-depth understanding of specific content areas including organization and delivery of services; administration and management; legislative issues; policy development; financing mechanisms; community and organizational change; principles of social and behavioral sciences; family dynamics; maternal, child and adolescent morbidity and mortality; ethics; reproductive health and population dynamics; and problems and issues related to special populations. Students also develop analytical and methodological skills which can be applied to program development and the design and conduct of research and evaluation. Students must meet minimum university admission requirements.

**Program Requirements**

**Core College Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PHC 6000</td>
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<tr>
<td>PHC 6050</td>
<td>Biostatistics</td>
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<tr>
<td></td>
<td>PHC 6102 Principles of Health Policy and Management</td>
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<td></td>
<td>PHC 6410 Social and Behavioral Sciences Applied to Health</td>
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**Concentration Area Courses**

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<th>Hours</th>
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<td>PHC 6934</td>
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<tr>
<td>PHC 6537</td>
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</tbody>
</table>
M.P.H./M.S.W. Dual Degree: Maternal-Child Health/Social Work

The dual master’s degree program in maternal and child health (M.P.H.) and social work (M.S.W.) is jointly offered by the College of Public Health and the College of Arts and Sciences, University of South Florida. The program curriculum enables students to develop skills for a comprehensive range of effective client interventions in a variety of health care settings. The fundamental methodological tools of public health include biostatistics, epidemiology, and health management and evaluation. These skills assist the social worker to target the needs of the client, both as an individual and as part of a group.

The dual M.P.H./M.S.W. degree program is a two- to three-year course of full-time study. Coursework requirements for the M.S.W. are listed under the Department of Social Work, College of Arts and Sciences.

M.P.H. in Public Health Education

The graduate program in public health education serves an increasing need for professionals trained in social health issues and in the personal health life-styles of American society. It is the primary function of professional health educators to assist individuals and families in adopting self-care practices and healthy life-styles, to encourage use of health services, and to promote participation in the design and implementation of these services which so dramatically affect the individual’s health. Students must meet minimum University admission requirements.

Program Requirements
Core College Courses
PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics (3)
PHC 6102 Principles of Health Policy and Management (3)
PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Concentration Area Courses
PHC 6500 (3) PHC 6508 (3) PHC 6707 (3)
PHC 6507 (3) PHC 6505 (3)

Suggested Support Courses
PHC 6533 (3) PHC 6934 (3) PHC 6414 (3)
Special Project
Supervised Field Experience (minimum 6 hours)

Comprehensive Examination
Total Hours 45

Public Health Nutrition Focus
The Department offers courses in Public Health Nutrition for those departmental students who have been admitted to M.S.P.H. or Ph.D. programs. These select students should have previous training or experience in public health nutrition programs.

Ph.D. Program

The Department of Community and Family Health doctoral program is a cooperative, learning, research, and problem-solving venture in which students and faculty contribute interdependently to pursuits essential to the health of human society.

A graduate of the doctoral program will be able to contribute to the improvement of the health and well-being of individuals, families, and communities through interdisciplinary and interdisciplinary effort. The graduate will be qualified to implement changes within the community of public health and conduct fundamental and applied research in identification, prevention, and evaluation of public health problems. The graduate will be expected to assume leadership positions at the local, state, and national levels.

Additional Admission Requirements
Students seeking entrance into the program should have sufficient work and educational experience to permit them to focus their research efforts in the area of public health. This background may include:

1. Education: a) A prior doctorate or Master's degree in a health-related discipline, such as the health sciences, social sciences, administration, nutrition, or health education, or b) A Master's degree in Public Health, or c) A Bachelor's degree plus specialty training, i.e., nurse practitioner training, nurse midwifery, etc.

2. Experience: a) Experience as a clinical practitioner in a discipline setting appropriate to a community and family health interest, or b) Experience in a research setting such as health statistics, legislative research, program evaluation units, private agencies, or c) Administrative or managerial experience in the organization and delivery of public health services, or d) Experience in the teaching of a public health discipline in an academic setting.

3. GRE score of at least 1100 and a 3.0 GPA for all course work attempted while registered as an upper division student working for a baccalaureate degree.

4. An earned M.P.H. or M.S.P.H. or equivalent degree with a 3.0 GPA or better; and evidence of writing/analytical skills.

While no one set of criteria is an absolute prerequisite, the student must be prepared with a background of sufficient depth to function as a mature and self-directed professional in the area of public health. Detailed requirements can be obtained from the department.
Course Descriptions

HSA 4102 INTRODUCTION TO PUBLIC HEALTH (3) A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

HSC 2100 CONTEMPORARY HEALTH SCIENCE (3) A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

HSC 4541 HUMAN STRUCTURE AND FUNCTION (3) Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught. (PR: Fundamentals of Biology/Lab or CI)

HSC 4554 SURVEY OF HUMAN DISEASES (3) An overview of the nature, types, and mechanisms of diseases of the major body systems. (PR: Fund. of Biology with Lab or CI)

HSC 5319 PROBLEMS OF SCHOOL AGE POPULATION (3) Study of health problems and needs of school age students, including a health status screening laboratory.

HSC 6442 PREVENTION AND CONTROL OF UNINTENTIONAL INJURIES (3) Prepares students to critically analyze the nature, magnitude, and intervention strategies of unintentional injuries and propose new directions for prevention and control. Not restricted to public health majors, has lecture sections and is not cross-listed. (PR: CI)

PHC 6413 FAMILY AND COMMUNITY VIOLENCE IN PUBLIC HEALTH (3) The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.

PHC 6410 SOCIAL AND BEHAVIORAL SCIENCES APPLIED TO HEALTH (3) A review of the conceptual, empirical, and theoretical contributions of the Social and Behavioral Sciences as they contribute to an understanding of health and illness. (PR: CI)

PHC 6411 INTRODUCTION TO SOCIAL MARKETING FOR PUBLIC HEALTH (3) This course is designed to analyze the components and applications of social marketing for public health: theoretical foundations; research methods; strategy development; program design and implementation, materials pretesting, and ethics. (PR: CI)

PHC 6414 ADOLESCENT HEALTH (3) The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents. This course is not restricted to Public Health graduate students.

PHC 6500 FOUNDATIONS OF HEALTH EDUCATION (3) Study of the historical, social and cultural factors influencing health behavior and the practice of health education. (PR: CI)

PHC 6505 HEALTH EDUCATION PROGRAM PLANNING (3) Analysis of the planning and development process for health education programs. (PR: PHC 6500 or CI)
PHC 6506 COMMUNITY HEALTH EDUCATION (3) Analysis of major community health problems, their causes, the roles of individuals, community institutions, and government in effecting solutions. Emphasis is upon participation and organization for community health. Class and field work sessions. (PR: PHC 6500 or CI)

PHC 6507 HEALTH EDUCATION METHODS (3) Prepares students to analyze and incorporate effective content and process in health education program delivery. Course not restricted to health education majors. (PR: PHC 6500 or CI)

PHC 6508 CASE STUDIES IN HEALTH EDUCATION (3) An assessment of selected case studies in Health Education with an emphasis on application, analysis, and evaluation of health education theory and practice to various public, private, health care, and school settings. (PR: PHC 6500, 30 hours toward MPH, or CA)

PHC 6521 PUBLIC HEALTH NUTRITION An analysis of nutritional issues concerned with health and disease. Biological and social interactions are studied as they relate to the development, monitoring, and evaluation of community nutrition intervention programs. (PR: CI)

PHC 6522 THE BIOLOGICAL ROLE OF NUTRITION IN HEALTH (3) Advanced study of the biochemical and physiological roles of nutrition in health and disease. (PR: HUN 3201, ZOO 3713C, PCB 4743, BCH 3033, or CI)

PHC 6523 POLICIES AND PRACTICES IN MATERNAL AND CHILD NUTRITION (3) Study of nutrition policies and practices in maternal and child health from pregnancy through the pre-school years. Focus on issues concerned with risk identification, interventions and outcome evaluations. (PR: CI)

PHC 6524 PUBLIC HEALTH NUTRITION FOR THE ADULT AND AGING POPULATION (3) Study of policies and practices of nutrition in health promotion and disease prevention in adults. Focus on issues concerned with risk identification, nutrition interventions and outcome evaluations. (PR: PHC 6521, PHC 6522, or CI)

PHC 6526 NUTRITION ASSESSMENT OF INDIVIDUALS AND COMMUNITIES (3) Comparative study of anthropometric, biochemical, dietary, clinical and socioeconomic indicators of nutritional status including the differential use of these indicators for individuals and communities. (PR: PHC 6521, PHC 6522, or CI)

PHC 6527 CASE STUDIES IN PUBLIC HEALTH NUTRITION (3) Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other public health nutrition courses. (PR: CI)

PHC 6530 MATERNAL AND CHILD HEALTH I: ISSUES AND CONCEPTS (3) The purpose of this course is to provide for the foundation of Maternal and Child Health for students who will be concentrating in this area, or as an overview for non-majors. (PR: CI)

PHC 6531 HEALTH PROGRAMS FOR CHILDREN WITH SPECIAL NEEDS (3) A study of causative factors, characteristics, care needs and programs for handicapped children with emphasis on health and health care issues. (PR: CI)
PHC 6532 WOMENS' HEALTH ISSUES IN PUBLIC HEALTH (3) A public health orientation of women's health needs with their impact on society, family, and children. (PR: CI)

PHC 6533 HEALTH PROGRAM DEVELOPMENT AND CHANGE PROCESS (3) A study of approaches to program development, implementation and management of change process in maternal and child health. (PR: CI)

PHC 6534 CHILD HEALTH PROGRAMS IN CARE SETTINGS (3) Advanced analysis of factors contributing to impact on children of health and care settings such as foster care, hospital care, and day care. Focus includes epidemiology of child health problems, program evaluation, administration and policy assessment. (PR: CI)

PHC 6535 INTERNATIONAL MATERNAL AND CHILD HEALTH (3) The course examines current priorities for improving the health of mothers and children in developing countries. The emphasis is on understanding MCH issues within the larger context of primary health care and sociocultural factors which influence behavior. (PR: CI)

PHC 6536 POPULATION AND COMMUNITY HEALTH (3) Population information and applications in health programs. Topics include: population growth and decline, structure, distribution, fertility, morbidity and mortality, and migration as applied to maternal, child and community health. (PR: PHC 6410 or CI).

PHC 6537 MATERNAL AND CHILD HEALTH II: CASE STUDIES IN MCH PROGRAMS, POLICIES AND RESEARCH (3) Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses. (PR: PHC 6530, PH Core Courses, or CI)

PHC 6590 REPRODUCTIVE HEALTH TRENDS AND ISSUES (3) Provides understanding of reproductive factors in Health and Disease and its impact on community, family, and individual quality of life, and to apply current advances in FP and MCH care components and management in Public Health Programs. (PR: CI)

PHC 6707 EVALUATIVE APPROACHES TO COMMUNITY AND FAMILY HEALTH EDUCATION PROGRAMS (3) Examination of research and evaluation issues in health education. Includes methods for designing studies in schools and other educational settings in the community. (PR: PHC 6500 and PHC 6505 or PHC 6530 or CI)

PHC 6931 ADVANCED SEMINAR IN SOCIAL & BEHAVIORAL SCIENCES APPLIED TO HEALTH (3) The course overviews the use of social science theory and methods in health problem analysis and program design. For students with appropriate background. (PR: CI)

PHC 7 POLICY AND PRACTICE IN COMMUNITY AND FAMILY HEALTH (3) This course is designed to prepare students to critically analyze issues and develop skills pertaining to effective policy development and practice in community and family health public health programs.

PHC 7708 APPLIED RESEARCH METHODS IN COMMUNITY AND FAMILY HEALTH (3) A detailed study of philosophical questions and applied techniques of research in community and family health. A project oriented course to prepare students to conduct their own independent research. (PR: PHC 6050, PHC 6700, PHC 6707, or CI)
Environmental and Occupational Health

13201 Bruce B. Downs Boulevard, MDC 56
Tampa, FL 33612
(813) 974-3144
email address: advisor@hsc.usf.edu
WebAddress: http://www.hsc.usf.edu/publichealth

Chairperson: Ann DeBaldo
Program Director: Ann DeBaldo


Degrees Offered: M.P.H., M.S.P.H., Ph.D.

Specializations: Environmental Health
Industrial Hygiene (M.S.P.H. and Ph.D. only)
Toxicology
Tropical Public Health/Communicable Disease
Occupational Health for Health Professionals
Occupational Health Nursing (M.S./M.P.H. dual degree) - refer to
College of Nursing
Occupational Medicine Residency
Safety Management
Solid and Hazardous Waste Management (Graduate Certificate) - refer to
Graduate Certificate listing

Students seeking an M.S.P.H. specialize in any of the environmental and occupational health areas with an intense research and technical program of study. Individualized courses of study are determined for students with the cooperation of an advisory committee. For the MSPH a thesis is required in addition to the Comprehensive Examination. Prospective students seeking to enter any of the concentration areas in the department should have a background in college level chemistry, physics, biology and mathematics to ensure successful completion of their chosen programs.

M.P.H. in Environmental Health

The Environmental Health concentration prepares professionals capable of addressing existing and burgeoning problems in environmental health. The M.P.H. is intended to provide individuals who have work experience in an area of Environmental Health with further educational opportunities and experience. M.P.H. students must meet minimum University admission requirements and are expected to complete the following minimum program requirements:
### Program Requirements

**Core College Courses**  
PHC 6000 Epidemiology (3)  
PHC 6050 Biostatistics (3)  
PHC 6102 Principles of Health Policy and Management (3)  
PHC 6357 Environmental and Occupational Health (3)  
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

**Environmental Health Concentration Area**  
PHC 6301 (3)  
PHC 6303 (3)  
PHC 6356 (2)

**Approved Electives**  
3 hours  
**Special Project**  
1 hour  
**Seminar**  
1-12 hours  
**Field Experience**  
**Comprehensive Examination**  

**Total Hours**  
15 hours  
14 hours  
5 hours  
3 hours

### M.S.P.H. in Environmental Health

**Additional Admission Requirements**

GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

### Program Requirements

**College Core Courses**  
PHC 6000 Epidemiology (3)  
PHC 6050 Biostatistics (3)  
Elective Core (3)

**Environmental Health Concentration Area**  
Approved Electives  
Seminar  
Thesis  
Comprehensive Examination  

**Total Hours**  
9 hours  
20 hours  
4 hours  
1 hour  
6 hours  
40

### M.P.H. in Toxicology

The objectives in this concentration area provide a broad foundation in the biomedical sciences with a general and specialized training in toxicology which will enable the students to assume leadership roles in the field of toxicology.

Employment opportunities for students graduating from this program include administration of toxicology programs, regulation, teaching, and service positions in environmental/occupational toxicology in public and private sectors of the State of Florida and the nation. Students must meet minimum University admission requirements.
Program Requirements
Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Toxicology Concentration area
- HSC 6556 (3)
- PHC 6511 (3)
- PHC 6310 (3)
- BCH 5045 (3) or equivalent
- PHC 6934 (3)

Approved Electives
- 5 hours

Special Project
- 3 hours

Seminar
- 1 hour

Field Experience
- 1-12 hours

Comprehensive Examination
- Total Hours
- 40-51

M.S.P.H. in Toxicology
The M.S.P.H. program is available for students who are primarily interested in developing research careers in Toxicology. Minimum requirements are:

Additional Admission Requirements
1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements
The M.S.P.H. program is available for students who are primarily interested in developing research careers in Environmental Health. The minimum degree requirements are:

College Core Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- Elective Core (3)

Concentration Area
- 20 hours

Approved Electives
- 4 hours

Seminar
- 1 hour

Thesis
- 6 hours

Comprehensive Examination
- Total Hours
- 40
M.P.H. in Tropical Public Health/Communicable Disease

The Tropical Public Health/Communicable Disease concentration provides an opportunity for science-oriented students with interest in communicable diseases and health problems in Florida and developing nations to receive specialized training both in the laboratory and in the classroom. Preference for admission will be given to students with a background or demonstrated skills in the biological sciences. Students must meet minimum University admission requirements.

**Program Requirements**

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<thead>
<tr>
<th>Core College Courses</th>
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<td>PHC 6357 Environmental and Occupational Health (3)</td>
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<tr>
<td>PHC 6410 Social and Behavioral Sciences Applied to Health (3)</td>
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<th>Tropical Public Health/Communicable Disease Concentration Area</th>
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<td>PHC 6511 (3)        PHC 6510 (3)  PHC 6513 (3)</td>
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<tr>
<td>PHC 6512 (3)        PHC 6006 (3)</td>
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<tr>
<td>Special Project</td>
<td>3 hours</td>
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<tr>
<td>Seminar</td>
<td>1 hour</td>
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<tr>
<td>Field Experience</td>
<td>1-12 hours</td>
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<tr>
<td>Comprehensive Examination</td>
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<tr>
<td>Total Hours</td>
<td>40-51</td>
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</table>

M.S.P.H. in Tropical Public Health/Communicable Disease

The M.S.P.H. program is available for students who are primarily interested in developing research careers in Tropical Public Health/Communicable Disease. Minimum requirements are:

**Additional Admission Requirements**

1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

**Program Requirements**

<table>
<thead>
<tr>
<th>College Core Courses</th>
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<td>Elective Core (3)</td>
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<th>Concentration Area</th>
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<td>Approved Electives</td>
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<tr>
<td>Seminar</td>
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<td>Thesis</td>
<td>6 hours</td>
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<tr>
<td>Comprehensive Examination</td>
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<tr>
<td>Total Hours</td>
<td>40</td>
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</table>
M.S.P.H. in Industrial Hygiene

The Industrial Hygiene program is designed to train technical professionals in anticipation, recognition, evaluation and control of hazards in the workplace. Course materials cover occupation diseases and their causes, assessment of risk and means to control the causes. The program is accredited by the Related Accreditation Commission of the Accreditation Board for Engineering and Technology. Students must meet minimum University admission requirements.

Additional Admission Requirements
1. Students must have at least 60 credit hours of college-level non-remedial classes in science, mathematics, engineering and technology with at least 15 credit hours in upper division classes.
2. In addition, students must have at least 21 credit hours in communication, humanities, an social sciences.
3. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements

College Core Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Concentration Area Courses
- PHC 6310 (3)  PHC 6356 (2)  PHC 6358C (2)
- PHC 6360 (2)  PHC 6361 (2)  PHC 6362 (2)
- PHC 6363 (2)  PHC 6365 (2)  PHC 6366 (2)
- PHC 6423 (2)

Suggested Electives
- PHC 6303 (3)  PHC 6306 (2)  PHC 6350 (3)
- PHC 6355 (3)  PHC 6364 (2)

Thesis 6 hours
Seminar 1 hour
Field Experience 1-12 hours
Comprehensive Examination
Total Hours 49-60

M.P.H. in Safety Management

The Safety Management program is intended for students desiring a professional Public Health career in environmental and occupational safety. In addition to core public health courses, it builds upon a variety of courses enabling the student to recognize, evaluate and control existing and potential safety hazards due to faulty equipment, process design, and chemical storage and handling. Students are trained to apply these safety principles in personal protective techniques, administrative practices, facility audits in the work place and community, and to know when to consult with other environmental and occupational professionals to prevent or reduce work related injuries, illnesses or discomfort. The program is a collaborative effort between the College of Public Health and the College of Engineering.
Additional Admission Requirements

1. Students must have at least 60 credit hours of college-level non-remedial classes in science, mathematics, engineering and technology with at least 15 credit hours in upper division classes.
2. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements

Core College Courses

- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

15 hours

Concentration Area Courses

- PHC 6356 (2)
- PHC 6361 (2)
- or
- EIN 5245 (3)
- EIN 6215 (3)
- EIN 6216 (3)
- PHC 6360 (2)
- PHC 6310 (3)
- PHC 6423 (2)

19-20 hours

Approved Electives

- Solid and Hazardous Waste Control
- Industrial Hygiene Aspects of Plants Operations
- Occupational Health Risk Assessment
- Community Air Pollution
- Environmental Fate of Chemical Release
- Environmental Health Law
- Or Other Approved Electives

4-6 hours

- PHC 6930 Occupational Safety Seminar
- PHC 6977 Special Project
- Field Experience
- Comprehensive Examination

Total Hours

43-57

M.P.H. in Occupational Health for Health Professionals

The M.P.H. in Occupational Health for Health Professionals is intended for physicians and nurses interested in careers in occupational health care. Non-medical professionals may also be considered for admission. Students must meet minimum University admission requirements. The principal concerns of the occupational health professional are (1) the worker (2) the work environment and (3) chemical, physical, ergonomic, and biological agents in the workplace.

The curriculum is interdisciplinary in nature and scope, addressing topics in these broad areas. Because of the diversity of experience and interest of the students in this program, 9 credit hours are available for elective courses in a specific area.
**Program Requirements**

Students are expected to complete the following minimum requirements:

**Core College Courses**

- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

PHC 6930 Public Health Seminar 1 hour

**Departmental Core Courses**

- PHC 6355 (3)  PHC 6310 (3)
- PHC 6423 (2)  PHC 6356 (2)

**Approved Electives in one Area of Concentration**

- Occupational Health
- Occupational Health Administration
- Occupational Health Research
- Hazardous Waste Health

PHC 6977 Special Project 3 hours
Field Experience 1-12 hours
Comprehensive Examination Total Hours 41-52

**M.S.P.H. or M.P.H. in Occupational Medicine Residency**

The College of Public Health, in collaboration with the College of Medicine, offers M.P.H. and M.S.P.H. programs to select residents in Occupational Medicine. The physicians who are chosen for the Occupational Residency program in the College of Medicine are also expected to complete the M.P.H. or M.S.P.H. Occupational Health program designed for health professionals.

**Additional Admission Requirements**

1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

**Program Requirements (M.P.H.)**

Core College Courses 15 hours

- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

PHC 6930 Public Health Seminar 1 hour
Departmental Core Courses

PHC 6355 (3)  PHC 6310 (3)
PHC 6423 (2)  PHC 6356 (2)

Approved Electives in one Area of Concentration

Occupational Health
Occupational Health Administration
Occupational Health Research
Hazardous Waste Health

PHC 6977 Special Project 3 hours
Field Experience 1-12 hours
Comprehensive Examination
Total Hours 41-52

Program Requirements (M.S.P.H.)

College Core Courses

PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics (3)
Elective Core (3)

Area of Concentration 20 hours
Approved Electives 4 hours
Seminar 1 hour
Thesis 6 hours
Comprehensive Examination
Total Hours 40 hours

Ph.D. in Environmental and Occupational Health

The department's Ph.D. program is designed to develop specialists in specific areas of Environmental and Occupational Health. Graduates of the doctoral program will be qualified to conduct fundamental and applied research in identification, evaluation and prevention of environmental health problems. The graduates will be expected to assume leadership positions at local, state and national levels. Specific information concerning the doctoral program can be obtained by calling 813-974-6665 or toll free 1-888-USF-COPH.

Additional Admission Requirements:
1. GRE score of at least 1100 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.
2. An earned M.P.H. or M.S.P.H. or equivalent degree with a 3.0 GPA or better; and evidence of writing/analytical skills.

Program Requirements

Doctoral Coursework, including a minimum of 13 hours at the 7000 level (30-45 hours, depending on background).
HSC 6556 PATHOBIOLOGY OF HUMAN DISEASE I (3) A basic study of broad pathobiological areas of biological injury, genetic and inborn errors of metabolism, and host-parasite relationships. In addition, the pathobiology of human disease is closely related to general biology in order to provide a strong foundation for the public health student. (PR: CI)

HSC 6557 PATHOBIOLOGY OF HUMAN DISEASE II (3) Overview of the distinct pathogenesis and etiology and selected acute and chronic diseases and their preventive aspects and impacts on the health care system. Provides basic knowledge of disease and illness patterns and their relationship to health planning. (PR: HSC 6556 and CI)

PHC 6 DISEASE SURVEILLANCE AND MONITORING (3) A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and the context of the hospital setting in particular. Basic epidemiological concepts will be focused in communicable diseases, nosocomial infections, environmental exposures, and emerging diseases. (PR: Biostatistics, Epidemiology, or CI)

PHC 6 INFECTION CONTROL PROGRAM DESIGN (3) This course will review educational program design for health care workers, instructional methods; personnel and financial resource management; role of IC personnel; development of goals, mission statements, action plans for IC; evaluation of programs, communication with administration, physicians and care givers.

PHC 6 MICROBIOLOGY FOR HEALTH CARE WORKERS (3) An overview of contemporary microbiology, with emphasis on the significance of microorganisms in the environment and clinical disease. The structure, physiology, molecular genetics, taxonomy, immunological and clinical aspects, and public health implications of microorganisms will be covered. (PR: BSC 2010, BSC 2011, CHM 2046, or CI)

PHC 6 INFECTIOUS DISEASE PREVENTION STRATEGIES (3) Surveillance criteria, outbreak criteria, data collection, and study design to be reviewed. Also included will be data analysis and reporting, interaction with public health agencies preparation for JCAHO, prevention and intervention; sanitation, disinfection, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy.

PHC 6301 ANALYSIS OF WATER AND WASTEWATER (3) A study of treatment systems for water and wastewater. Emphasis is given to problems encountered in current technologies, health effects, and environmental impact. (PR: CHM 3610C or CI)

PHC 6302 MUNICIPAL SANITATION (3) A study of environmental sanitation activities, programs, and issues of local government. (PR: PHC 6357 or CI)

PHC 6303 COMMUNITY AIR POLLUTION (3) A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact. (PR: CHM 3610C or CI)

PHC 6305 CHEMICAL METHODS IN ENVIRONMENTAL HEALTH (3) Techniques used in quantitative and qualitative chemical analyses for determining water quality. (PR: CHM 3610C or CI)
PHC 6306 RADIATION HEALTH PRINCIPLES (2) An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage. (PR: CI)

PHC 6310 ENVIRONMENTAL OCCUPATIONAL TOXICOLOGY (3) A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used. (PR: CI)

PHC 6350 OCCUPATIONAL HEALTH RISK ASSESSMENT (3) A study of methods for assessing potential hazards associated with occupational health environments. Evaluation of techniques for the development of comparative rankings of problem areas. (PR: PHC 6350 or CI)

PHC 6354 SAFETY AND HEALTH ADMINISTRATION (2) A study of techniques and administrative practices which are instrumental in the initiation and maintenance of programs and procedures that are geared to prevent and reduce work related injuries, illnesses, and discomfort. The course is cross-linked with Industrial & Management Systems Engineering.

PHC 6355 OCCUPATIONAL HEALTH (3) The study of historical, epidemiologic, administrative, legal, and clinical aspects of worker’s health in the workplace. (PR: CI)

PHC 6356 INDUSTRIAL HYGIENE (2) A study of the recognition, evaluation, and control of the workplace affecting the health of employees. (PR: CI)

PHC 6357 ENVIRONMENTAL AND OCCUPATIONAL HEALTH (3) The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries. (PR: CI)

PHC 6358C INDUSTRIAL HYGIENE—PHYSICAL AGENTS (2) Recognition, evaluation, and control of physical agents in the workplace. Laboratory exercises and field surveys will be conducted in addition to class lectures. Lec/Lab. (PR: PHC 6356 and 1 year college physics or CI)

PHC 6360 SAFETY MANAGEMENT PRINCIPLES AND PRACTICES (2) A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government. (PR: CI)

PHC 6361 INDUSTRIAL ERGONOMICS (2) Systems logic and methodology for assessing the potential impact of work environments on the health and safety of workers; application of occupational ergonomics and human factors to the design and evaluation of complex work environments. (PR: PHC 6360 or CI)

PHC 6362 INDUSTRIAL VENTILATION (2) Basic principles of fluid mechanics and exhaust ventilation are employed in the design and evaluation of the performance of industrial ventilation systems. (PR: PHC 6356)

PHC 6363 INDUSTRIAL NOISE AND VIBRATION (2) Review of basic physics and physiological responses associated with excessive noise and vibration and methods for their assessment and control in the work environment. (PR: CI)
PHC 6364 INDUSTRIAL HYGIENE ASPECTS OF PLANT OPERATIONS (2) Field visits to industrial plants will be conducted so as to familiarize students without prior experience to the health hazards associated with various processes and the methods of control employed to prevent excessive exposures. (PR: PHC 6356 or CI)

PHC 6365C ANALYTICAL METHODS IN INDUSTRIAL HYGIENE I (2) Analytical measuring methodologies and instruments employed in evaluating exposure to chemical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data. (PR: PHC 6356 or CI)

PHC 6366C ANALYTICAL METHODS IN INDUSTRIAL HYGIENE II (2) Analytical measuring methodologies and instruments employed in evaluating exposure to physical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data. (PR: PHC 6356 or CI)

PHC 6422 ENVIRONMENTAL HEALTH LAW (2) Review and analysis of Federal and State Laws and regulations relating to the pollution, regulation and protection of the air, water, and environment issues in general. (PR: EOH 6537)

PHC 6423 OCCUPATIONAL HEALTH LAW (2) Review and analysis of Federal and State Laws and regulations in relation to Occupational Health and Safety. (PR: EOH 6537)

PHC 6510 EXOTIC AND INFECTIOUS DISEASE (3) A study of human infectious disease with particular emphasis on diseases caused by parasites, viruses, bacteria, and fungi found in sub-tropical and tropical environments. (PR: CI)

PHC 6511 TROPICAL HEALTH IMMUNOLOGY (3) Immunology as applied to public health. Emphasis is on applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems. (PR: CI)

PHC 6512 VECTORS OF HUMAN DISEASE (3) Biology of the vectors of human disease: major groups include the arthropods, molluscs, and mammals. Emphasis on the ecology of the vectors and their transmission of pathogens as they relate to public health. (PR: CI)

PHC 6513 PUBLIC HEALTH PARASITOLOGY (3) Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoans, cestodes, trematodes, and nematodes of human disease. (PR: CI)
Epidemiology and Biostatistics

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Chairperson: Thomas Mason
Program Director: Thomas Mason


Degrees Offered: M.P.H., M.S.P.H., Ph.D.
Specializations: Epidemiology and Biostatistics
Epidemiology
Biostatistics (M.P.H. and M.S.P.H. only)

Epidemiology is the study of diseases as they affect populations; it involves the factors affecting disease rates and the distribution of disease in populations. As a fundamental science of public health, epidemiologic research has traditionally focused on questions of disease causation through population-based studies for both infectious and chronic diseases. More recent topics now addressed by epidemiologic studies also include behavioral risk factors for disease, clinical trials and assessing the quality of health care. The content, methods, and scientific inference in the major epidemiologic issues of today are examined in this program.

Biostatistics involves the application of statistical techniques to scientific research in health related fields, including public health, medicine and biology. Biostatisticians have essential roles in designing studies and analyzing data from research problems as diverse as the study of new drugs to combat AIDS, evaluation of interventions aimed at reducing infant mortality, determination of major risk factors for heart disease, development of psychiatric symptoms and drug and alcohol use in teenagers, and the reduction in mortality in child trauma centers.

M.P.H. in Epidemiology

The M.P.H in Epidemiology is designed for experienced health professionals who wish to acquire a broad understanding of public health with an emphasis upon epidemiologic methods.

Program Requirements
Students must complete a minimum 39 hours total.
Core College Courses
PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics (3)
PHC 6102 Principles of Health Policy and Management (3)
PHC 6357 Environmental and Occupational Health (3)  
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Concentration Area  
- PHC 6006 (3)  
- PHC 6051 (3)  
- PHC 66701 (3)  
- PHC 6017 (3)  

15 hours

Approved Electives  
6 hours

Special Project  
3 hours

Field Experience  
1-12 hours

Comprehensive Examination  
Total Hours  
40-51 hours

M.S.P.H. in Epidemiology
The M.S.P.H. program in Epidemiology is designed for students who are primarily interested in developing research careers in epidemiology or biostatistics. Application to the M.S.P.H. program is strongly encouraged for students who lack prior training in a health profession. Students in the M.S.P.H. program must fulfill the following minimum requirements:

Additional Admission Requirements
1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements
Course requirements for students in the Epidemiology M.S.P.H. program are based on the student’s area of interest (e.g. cardiovascular diseases, cancer, infectious diseases, biostatistics). Courses are selected with the advice of the student's committee. Coursework above the minimum hours may be required, depending on the student’s background and interests.

College Core Courses  
- PHC 6000 Epidemiology (3)  
- PHC 6050 Biostatistics (3)  
- Elective Core (3)  

9 hours

Concentration Area  
18 hours

Department Electives  
9 hours

Master’s Thesis  
6 hours

Comprehensive Examination  
Final Defense  
Total Hours  
42

Master of Public Health (M.P.H.) in Biostatistics
Graduates of the M.P.H. in Biostatistics program should have a solid understanding of basic statistical theory, be able to apply frequently used biostatistical techniques with competence, possess strong computing skills to organize and manage complex datasets, and be an effective collaborators in health related studies. The M.P.H. focuses on practical applications of biostatistical methods in real world public health problems.
Prerequisite Training
Undergraduate courses in calculus are required.

Program Requirements
Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Concentration area
- PHC 6051 (3) PHC 6700 (3) PHC 6053 (3)
- PHC 6701 Computer Applications for Health Researchers I (3)
- PHC 6xxx Biostatistics Theory and Methods I (3)
- PHC 6055 Survival Analysis (3)

Biostatistics Electives
- 6 hours

Special Project
- 3 hours

Field Experience
- 1-12 hours

Comprehensive Examination
- Total Hours 40-51

M.S.P.H. in Biostatistics

The M.S.P.H. in Biostatistics involves the application of statistical techniques to scientific research in health related fields, including public health medicine and biology. The M.S.P.H. program trains students to design studies, manage data collection and processing, and analyze datasets all within a context of health science research.

Prerequisite Training
The M.S.P.H. program in biostatistics includes courses in both applied and theoretical statistics and probability as well as courses covering computer techniques in exploratory and graphical methods, confirmatory statistical analysis, and data management and study design. Students interested in biostatistics should have very strong undergraduate training in mathematics, computing and biology or other laboratory science. Undergraduate courses in advanced calculus and linear algebra are highly recommended. Additionally, students should have had prior computing experience. Students without this math or computer background will be expected to master this material prior to entering the degree program or during their first year of graduate work.

Additional Admission Requirements
1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

Program Requirements
Students with limited medical or biology background may be required to take either Survey of Human Disease or Pathobiology of Diseases and Introduction to Public Health as prerequisites. The standard M.S.P.H. program usually involves two full years of coursework and thesis.

College Core Courses
- 9 hours
Typical program:
- PHC 6xxx Biostatistical Theory and Methods II (3)
- PHC 6055 (3) PHC 6700 (3)
- PHC 6053 (3) PHC 6017 (3)
- PHC 6xxx Biostatistics Inference (3)
- PHC 6xxx Generalized Linear Models (3)

Thesis 6 hours
Biostatistics Electives 6 hours
Comprehensive Examination
Total Hours 42

**Ph.D. in Epidemiology**

This program is designed for a wide variety of health care professionals and scientists.

**Additional Admission Requirements**

1. Deadline for application into the Epidemiology doctoral program for the Fall semester is February 1. Selection of students is on a competitive basis and must correspond with faculty research interests.

2. Students without a prior master's degree or equivalent preparation in epidemiology and biostatistics must complete the required master's coursework in epidemiology/biostatistics and one additional required core course outside the Department in addition to doctoral coursework.

3. GRE score of at least 1100 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.

4. An earned M.P.H. or M.S.P.H. or equivalent degree with a 3.0 GPA or better; and evidence of writing/analytical skills.

**Program Requirements**

Doctoral Coursework, including a minimum of 13 hours at the 7000 level (30-45 hours, depending on background)

Required Coursework
- PHC 7935 Advanced Clinical Trails (3)
- PHC 7935 Advanced Research Methods (3)
- PHC 6055 Survival Analysis (3)
- Dissertation (18 hours)
- Evidence of Teaching Proficiency
- Oral and Written Qualifying Examinations
- Final Defense

The 18 hours for the dissertation reflects minimum requirements.

Total minimum hours 90 hours

**NOTE:** Knowledge of college level algebra is required for elementary biostatistics courses; advanced biostatistics courses require knowledge of calculus and linear algebra.
Course Descriptions

HSC 6054 DESIGN AND ANALYSIS OF EXPERIMENTS FOR HEALTH RESEARCHERS (3) An interdisciplinary overview of design and analysis of experimental and observational studies. Emphasis on applications in biological, clinical and health-related fields. Computer software used. (PR: PHC 6051, PHC 6701 or CI)

HSC 6055 SURVIVAL ANALYSIS (3) A study of statistical methods for analyzing censored life time data with applications in health sciences. (PR: PHC 6051, PHC 6701 or CI)

HSC 6056 SURVEY SAMPLING METHODS IN HEALTH SCIENCES (3) An interdisciplinary overview of survey techniques with applications in health sciences. Discussions on questionnaire design, measurement error, data collection modes, data management, use of computer software and statistical analysis. (PR: PHC 6050, PHC 6701 or CI)

PHC 6000 EPIDEMIOLOGY (3) Study of epidemiological methods to evaluate the patterns and determinants of health and diseases in populations. (PR: CI)

PHC 6006 EPIDEMIOLOGY OF DISEASES OF MAJOR PUBLIC HEALTH IMPORTANCE (3) A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods. (PR: PHC 6000, PHC 6050 and CI)

PHC 6007 CANCER EPIDEMIOLOGY (3) The course will consider the extent of the cancer problem, present the epidemiology of the major cancer sites, including those of the respiratory, digestive and reproductive systems, and evaluate the potential for primary and secondary preventive efforts. (PR: PHC 6000 or CI)

PHC 6008 CARDIOVASCULAR DISEASE EPIDEMIOLOGY (3) A review of the major issues in cardiovascular disease epidemiology, including trends, the extent of the disease nationally and internationally, implications of major epidemiologic studies, and strategies for prevention. (PR: PHC 6000 or CI)

PHC 6017 DESIGN AND CONDUCT OF CLINICAL TRIALS (3) The course will familiarize students with the issues in the design and conduct of clinical trials. Factors involved in organizing a trial, randomizing subjects, implementation, and analyzing data from the study will be considered. (PR: PHC 6050, PHC 6000 and CI)

PHC 6050 BIOSTATISTICS I (3) Concepts, principles, and methods of statistics applied to public health issues. (PR: College Algebra or CI)

PHC 6051 BIOSTATISTICS II (3) Intermediate level statistical methods appropriate for health and epidemiologic studies. Emphasis on 2x2 tables, analysis of variance, multiple linear regression, methods of survival analysis, logistic regression, and Cox regression. (PR: PHC 6000 and PHC 6050, or CI)

PHC 6053 CATEGORICAL DATA ANALYSIS (3) Study of techniques used in analyzing data where subjects have been cross-classified by two or more categorical variables. Special emphasis given to problems frequently arising in epidemiology, public health and medicine. (PR: PHC 6051 or CI)
PHC 6700 RESEARCH METHODS IN EPIDEMIOLOGY (3) Planning, execution, analysis and intervention of epidemiologic studies. (PR: PHC 6000, PHC 6050 and CI)

PHC 6701 COMPUTER APPLICATIONS FOR PUBLIC HEALTH RESEARCHERS (3) Course covers essential computer-based techniques for a public health researcher; data entry, editing, management, subsample selection, and data encryption for confidentiality are all covered. SAS is used extensively. Course open to all graduate students. (PR CI)

PHC 7028 ADVANCED CLINICAL TRIALS (4) The many facets of clinical trials will be covered including study design, ethics, monitoring, and analysis. Real datasets will be used to provide the student with the opportunity to learn data base management and data analysis using SAS. (PR: PHC 6000, PHC 6050, PHC 7017, PHC 6700, PHC 6701, PR: CI)

PHC 7015 EPIDEMIOLOGIC STUDY DESIGN AND PROTOCOL DEVELOPMENT (3) The course will provide the student with the opportunity to acquire knowledge and skill in formulating a research problem and developing an appropriate epidemiologic study design. A detailed proposal will be developed, presented, and defended. (PR: PHC 6000, PHC 6700, PHC 6051 and CI)

PHC 7018 ENVIRONMENTAL EPIDEMIOLOGY (3) This course will consider the relationship between environmental (non-occupational) factors and the occurrence of disease in human populations, including the chemical and physical extrinsic agents to which humans are exposed. (PR: PHC 6000 and CI)

PHC 7019 OCCUPATIONAL EPIDEMIOLOGY (3) Examines the existing epidemiologic data pertaining to the health effects of specific occupational exposures and the epidemiologic methods involved in the conduct of occupational studies. (PR: PHC 6000 and CI)

PHC 7703 ADVANCED RESEARCH METHODS IN EPIDEMIOLOGY (3) Course emphasizes summary and statistical analysis of data. Methods include life tables, logistic and proportional hazards regression, assessment of confounding, interaction, and bias. Includes a two-hour weekly computer lab. (PR: PHC 6700)
Health Policy and Management

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Chairperson: Barbara Orban
Program Director: Barbara Orban


Degrees Offered: M.P.H., M.S.P.H., M.H.A., Ph.D.
Specializations: Health Care Organizations and Management
Health Policies and Programs
International Health Management
Master of Health Administration (M.H.A.)

The primary aim of the Health Policy and Management (HPM) program is to prepare persons for leadership positions in health care delivery. Programs of study are specifically designed to train public health administrators, health policy analysts and planners, and managers of traditional and alternative health care delivery systems for service in the state of Florida, the nation and abroad. Three specialty areas are offered in the health policy and management concentration. Each of these tracks draws first on a general core of coursework in health care management, economics and finance, and health policy and politics and then on the more specialized knowledge needed to pursue various career options in the field of health policy and management. The course requirements for the three HPM specialty areas or tracks leading either to the M.P.H. or M.S.P.H. degrees are described below.

To ensure that students learn how technical knowledge is applied to health care problems or issues, the HPM curricular program requires, in addition to completing the coursework described below, that each Master's degree candidate submit a professional-quality paper to the HPM Archive as a condition for graduation. The department has detailed written guidelines.

M.P.H. in Health Care Organizations and Management
The health care industry in the United States increasingly requires skilled management talents in all aspects of organization, delivery, and financing. Health care management responsibilities include: planning, resource acquisition and allocation, implementation, monitoring, analysis, and evaluation. This track is designed for individuals interested in such management positions, especially those at mid-career who anticipate advancement or transition from technical to managerial responsibilities.

Additional Admission Requirements
1. Students must meet minimum University admission requirements.
2. A GMAT score of 500 or higher may be substituted for the GRE.
Program Requirements

Required courses emphasize the competencies and conceptual frameworks associated with effective health management practice. Electives permit specialization in several areas, including finance, marketing, health care information systems, and evaluation. Course requirements include:

Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Health Policy and Management Core Courses
- PHC 6180 (3) PHC 6430 (3)
- PHC 6151 (3)

Health Care Organizations and Management Track
Choose 3 of the following, plus 6 hours of approved electives:
- PHC 6160 (3) PHC 6181 (3)
- PHC 6191 (3) HSA 6196 (3)

Special Project
- 3 hours
Field Experience
- 1-12 hours
Comprehensive Examination
- Total Hours 43-54

M.P.H. in Health Policies and Programs

This area is designed to provide specialized education and training related to national, state, and local health policies as well as to both public and private sector health and medical care programs.

Additional Admission Requirements
1. Students must meet minimum University admission requirements.
2. A GMAT score of 500 or higher may be substituted for the GRE.

Program Requirements

Required courses emphasize theory and methods in policy analysis and program evaluation. Elective courses focus on substantive areas of interest and emphasize application, with students being encouraged to select elective courses from other USF departments as appropriate. Course requirements include:

Core College Courses
- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Health Policy and Management Core Courses
- 9 hours
Health Policies and Programs Track
Choose 3 of the following, plus 6 hours of approved electives.
PHC 6150 (3)   PHC 6191 (3)
PHC 6760 (3)
PHC 6xxx (Health Law and Regulation)

Special Project  3 hours
Field Experience 1-12 hours
Comprehensive Examination
Total Hours  43-54

M.P.H. in International Health Management

This track prepares individuals to work either abroad or at home in the international health system, with special emphasis given to managerial positions in international agencies and organizations. Students are expected to learn the principles and techniques of health policy and management relevant to any geographic area and the cultural, socioeconomic and technological conditions of foreign nations, especially in Third World countries.

Additional Admission Requirements
1. Students must meet minimum University admission requirements.
2. A GMAT score of 500 or higher may be substituted for the GRE.

Program Requirements
Required courses emphasize the application of these principles to international health issues. Elective courses emphasize particular applications in terms of either specific management techniques or foreign cultures. Course requirements include:

Core College Courses  15 hours
PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics (3)
PHC 6102 Principles of Health Policy and Management (3)
PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Health Policy and Management Core Courses  9 hours
PHC 6180 (3)   PHC 6430
PHC 6151 (3)

International Health Management Track  15 hours
Take 3 of the following, plus 6 hours of approved electives
PHC 6110 (3)   PHC 6111 (3)
PHC 6146 (3)

Special Project  3 hours
Field Experience 1-12 hours
Comprehensive Examination
Total Hours  43-54
M.S.P.H. Programs

Students who plan to focus primarily in research may select the Master of Science in Public Health in any of the above three tracks in the Department of Health Policy and Management.

Additional Admission Requirements
1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.
2. A GMAT score of 500 or higher may be substituted for the GRE.

Program Requirements
Students with limited medical or biology background may be required to take either Survey of Human Disease or Pathobiology of Diseases and Introduction to Public Health as prerequisites. The standard M.S.P.H. program usually involves two full years of coursework and thesis.

College Core Courses
PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics (3)
Elective Core (3)

Approved Electives
Selected Courses and Research Methods
Thesis
Comprehensive Examination
Total Hours

43

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

The M.H.A. degree is designed to provide the competencies needed for careers in the management and financial management of health care organizations, such as hospitals, HMOs, group medical practices, and long term care facilities. In addition, students are prepared for managerial positions in the health care insurance industry, including third party administration, managed benefit programs, and utilization review. The program is designed to educate managers who are able to solve the increasingly complex problems created by rapid changes in the delivery and financing of health care services in the United States.

Additional Admission Requirements
1. GRE score of at least 1000 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.
2. A GMAT score of 500 or higher may be substituted for the GRE.

Program Requirements
The curriculum includes college core courses, finance and economics, management and policy, analytic skills, field experience, and comprehensive examination.

Course requirements by competency areas:

Finance and Economics Courses
PHC 6160 (3)  PHC 6161 (3)
PHC 6430 (3)  PHC 6433 (3)
Management Concepts and Policy Courses
PHC 6102 (3)  PHC 6180 (3)
PHC 6181 (3)  PHC 6148 (3)
PHC 6151 (3)  

Analytic Skills Courses
PHC 6191 (3)  PHC 6196 (3)
PHC 6050 (3)  

Health and Communities Courses
PHC 6000 (3)  PHC 6357 (3)
PHC 6410 (3)  

Special Project
Field Experience
Comprehensive Examination
Total Hours

M.H.A. Comprehensive Examination.
Candidates for the M.H.A. degree will be required to pass an oral comprehensive examination which will focus on the candidate's Internship work and report, although examiner questions will not be limited to this subject matter. The Department of Health Policy and Management has detailed written guidelines.

Ph.D. in Health Policy and Management
A limited number of applications are admitted to the PhD program, which trains graduates for research and analysis positions in academics, government, and private and public health care delivery. Each program is tailored to the individual application. A typical course of study would include core courses in the department, specialty areas selected and approved by a faculty committee, and appropriate research tools including two of the following: computer programming languages, statistical analysis or foreign languages. Refer to the College's section regarding application requirements and doctoral criteria.

Additional Admission Requirements
1. GRE score of at least 1100 and a 3.0 GPA for all work attempted while registered as an upper division student working for a baccalaureate degree.
2. An earned M.P.H. or M.S.P.H. or equivalent degree with a 3.0 GPA or better; and evidence of writing/analytical skills.
3. A GMAT score of 600 or higher may be substituted for the GRE.

Course Descriptions
PHC 6148 STRATEGIC PLANNING AND HEALTH CARE MARKETING (3) The course reviews the fundamental steps in the strategic planning process and marketing approaches for health care organizations. The textbook and exercises emphasize non-profit organizations. (PR: PHC 6102)
PHC 6102 PRINCIPLES OF HEALTH POLICY AND MANAGEMENT (3) General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels. (PR: CI)

PHC 6110 INTERNATIONAL HEALTH AND HEALTH CARE SYSTEMS (3) Study of global health problems and trends, translated to needs and demands; socio-economic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies. (PR: CI)

PHC 6111 PRIMARY HEALTH CARE STRATEGIES (3) This course is designed to address the rationale, planning, and implementation of primary health care programs. Emphasis is given to establishing primary care as an integral part of the health care system and as an essential component of public health programs. (PR: PHC 6151, PHC 6180, PHC 6110, or CI)

PHC 6146 HEALTH SERVICES PLANNING AND EVALUATION (3) Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information. (PR: PHC 6050 or CI)

PHC 6147 MANAGING QUALITY IN HEALTH CARE (3) Study of methods and tools for managing quality in health care. The developments in applications of quality assurance, utilization review, continuous quality improvement, and total quality management in health services including hospitals, managed care, and public health. (PR: PHC 6102, PHC 6050, or CI)

PHC 6150 HEALTH POLICY ANALYSIS (3) A detailed study of policies, policy making, and policy analysis in health services and their relationship to health planning, management, and health care delivery. (PR: PHC 6102 or CI)

PHC 6151 HEALTH POLICY AND POLITICS (3) This course will examine the role of federal, state, and local government in health care organization, delivery, and financing in the United States and other comparable industrial nations. (PR: PHC 6102 or CI)

PHC 6160 HEALTH CARE FINANCIAL MANAGEMENT (3) An introduction to the application of financial management practices in health care organizations, cost behavior analysis, working capital management, financial statement analysis, and capital decision making. (PR: At least one undergraduate course in Financial or Managerial Accounting and PHC 6102, or CI)

PHC 6161 HEALTH CARE FINANCE APPLICATIONS (3) A case method approach to the financial management of health care organizations. Quantitative decision analysis techniques, costing methods, and financial policy analysis skills are emphasized. (PR: PHC 6102 or CI)

PHC 6162 SEMINAR ON INDUSTRY AND HEALTH (3) A study of the role that business organizations play in the financing, provision, and consumption of health care services, and an examination of health care reimbursement methods, health benefit plan design and cost containment methods. (PR: CI)

PHC 6180 HEALTH SERVICES MANAGEMENT (3) Advanced study of specific topics in health care organization management including the managerial process, organizational theory, resource utilization and control, and human resource management. (PR: PHC 6102 and undergraduate accounting course or CI)
PHC 6181 ORGANIZATIONAL BEHAVIOR IN HEALTH CARE MANAGEMENT (3)
The course is designed to prepare the student for executive management responsibilities in a health service organization. A seminar format is used for an in-depth examination of human factors/human relations issues in health service organizations. (PR: PHC 6180 or CI)

PHC 6191 QUANTITATIVE ANALYSIS IN HEALTH CARE MANAGEMENT (3) This course examines the use of quantitative modeling in the management of health care organizations. Emphasis is given to the application of standard modeling techniques to operational problems in health and medical care settings (PR: PHC 6050 and PHC 6180, 6430, and 6151 or CI)

PHC 6196 INFORMATION SYSTEMS IN HEALTH CARE MANAGEMENT (3) The course is designed to prepare students to analyze and design information systems in health services organizations. (PR: PHC 6050 or CI)

PHC 6430 HEALTH ECONOMICS I (3) Microeconomic analysis of the structure of the health care industry and economic incentives facing physicians, patients, and hospitals. (PR: ECO 2023 or equiv. and CI)

PHC 6433 HEALTH ECONOMICS II (3) Second of a two part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the design of such policy. (PR: PHC 6430)

PHC 6540 PUBLIC MENTAL HEALTH (3) Current state of community mental health emphasizing history and future of the movement and involvement of public agencies; methods, goals, evaluation of treatment, funding and administration of programs. (PR: CI)

PHC 6541 PUBLIC MENTAL HEALTH ADMINISTRATION (3) General principles of management theory, methods, administrative processes, and organizational structure of public and private mental health organization in hospital and ambulatory care settings. (PR: PHC 6540, PHC 6102 or CI)

PHC 6760 HEALTH PROGRAM EVALUATION (3) The course develops the skills needed to evaluate health and medical care programs. Emphasis is given to research design, determination of qualitative and quantitative criteria, measurement techniques, and interpretation of findings (PR: PHC 6430, 6180, and 6151 or CI)
As USF approaches the 21st century, distance learning becomes an increasingly important facet of the university's mission to serve the citizens of Florida. Distance learning makes use of a variety of technologies to bring educational experiences to students with minimal or no on-campus attendance. Through these innovative programs, students constrained by time and/or place can pursue their educational goals.

Some distance learning courses use common "household" technologies - televisions, VCR's, and computers - to provide courses on "anytime, anywhere" basis so students can take courses in their homes and workplaces at times that fit their personal schedules. Others use specialized classrooms supporting fully interactive videoconferencing at multiple locations or studio models using one-way video/two-way audio hookups. These classrooms are located at community colleges, corporate sites, community agencies, schools, and hospitals, providing convenient access to selected courses and programs.

USF Distance Learning Facts:

* 30 year history of electronic enrollment
* 10,500 average annual enrollments
* 20% graduate
* 80% undergraduate
* 260 average annual courses
* One-way video, interactive videoconferencing, and web-based instruction

For a list of programs supported by Distance Learning, refer to the List of Degrees (participating programs are designated with "DL."). For complete information on the courses and programs offered through Distance Learning, contact the Distance Learning Student Support office at 974-2996 or on the web at www.outreach.usf.edu.
GRADUATE STUDIES

4202 E. Fowler Avenue, FAO 126
Tampa, FL 33620
(813) 974-2846
e-mail: grad@grad.usf.edu
WebAddress: http://www.grad.usf.edu

Dean:      Dale E. Johnson
Associate Dean: Carnot Nelson

Degrees Offered:  M.Arch.

Academic Programs:
School of Architecture and Community Design
Applied Behavior Analysis (Pending Approval)

School of Architecture and Community Design
4202 E. Fowler Ave.
USF P.O. Box 30837
Tampa, Fl 33620
(813) 974-4031
e-mail: Ratensky@sacd.arch.usf.edu
WebAddress: http://www.sacd.arch.usf.edu

Program Director:  TBA
Faculty:  David A. Crane, Robert Campbell, Theodore Trent Green, James A. Moore,
         Daniel S. Powers, Alexander Ratensky, Sape A. Zylstra

Degrees Offered:  Master of Architecture
Certificate:  Community Design and Development

Taking advantage of its diverse metropolitan setting in Florida’s Tampa Bay region, the School of Architecture and Community Design offers unique opportunities for professional studies of the urban environment. Choices of both full- and part-time study at the master’s level are provided to mature students pursuing varied career paths. The Florida Center for Community Design and Research, the School’s research arm, offers a complementary setting for faculty and students to engage in real world basic and applied research.
Master of Architecture Program (M. Arch.)
The Master of Architecture Program at the University of South Florida is intended for students who hold baccalaureate degrees in fields other than architecture, though students with prior course work in architecture may be admitted with advanced standing. All students pursue the professional degree, Master of Architecture (M. Arch.). This degree, coupled with appropriate work experience, qualifies a graduate for licensure as a professional architect. The Program is accredited by the National Architectural Accrediting Board (NAAB).

The NAAB has promulgated the following statements about architectural education:

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The curriculum emphasizes urban architecture and related topics in the professional coursework, as well as in elective courses that focus on urban issues. This emphasis is also reflected in the topics chosen by students for their Master’s theses.

Additional Admission Requirements
Submit the following to the Admissions Committee, School of Architecture, USF, 4202 E. Fowler Ave., USF P.O. Box 30837, Tampa, FL 33620:

1. Three letters of recommendation from former instructors, employers, or others in a position to assess applicant’s work and academic potential.
2. A letter of application and statement of intent regarding the applicant’s educational and career objectives and choice of program.
3. For applicants with prior training in Architecture or related areas: samples of student work (portfolio).

For applicants without prior architectural training: samples of work demonstrating creative and artistic abilities and problem-solving skills. It is assumed that students will have taken courses such as calculus and physics.

Students lacking these must add appropriate courses upon admission to the program. All candidates must interview with a faculty member responsible for admission. For more program information, contact the Architecture Program at (813) 974-4031.

Program Requirements
The M.Arch. degree requires 110 credit hours of coursework, including a thesis or Master’s project. The typical course load per semester is approximately 14 credits. Students who intend to work part-time may wish to take fewer credits per term. Students who have backgrounds in architecture or related disciplines will have their transcripts evaluated for content, and course waivers may be provided.
Each student, regardless of the number of courses waived, must complete a minimum of 76 hours in the program (this residency requirement may be varied by action of the faculty) to be eligible for graduation. Courses in architecture are selected each semester with the consent of an assigned faculty adviser.

The program is concluded with a thesis that provides the opportunity to undertake a study of personal interest. The thesis calls for in-depth application of earlier course material, and demonstrates professional competence. No comprehensive exam is required.

Two tracks to the Master of Architecture degree have been identified. One, requiring full-time attendance, may be completed in eight semesters. The second, allowing part-time attendance, requires eleven semesters (usually including summer semesters) to complete. Diagrams of each track are available from the School.

In addition to coursework, students have field trips to locations such as Savannah, Chicago, and New York City. Contact the department for more information.

GPA of 3.0 in Design
In addition to the state-wide requirement that students maintain an overall grade point average (GPA) of 3.0 or better, the Architecture faculty also requires that students maintain a GPA of 3.0 or better in Design.

Field Trips
Each year students in the fall term Architectural Design I and or The Building Arts take a joint field trip to Savannah, GA. Transportation is provided by the School; however, the lodging and meals ($100-200) are paid by the student. Additional spring field trips for students in Design II, IV, and VI are usually taken to such cities as New York, Boston, Chicago. The School defrays some of the transportation cost, and provides some scholarship assistance on the basis of need. The cost of these trips may be $200-600 per student.

Computers
The integration of computers with the design studio curriculum begins in the first semester with Architectural Design I (ARC 5361); however, it is expected that each student may be required to purchase a personal computer before entering Design III. The School will negotiate group prices on both hardware and software, although a range of computers will be specified so that students may be able to use equipment acquired earlier. Nevertheless, prospective students should check with the School to learn current requirements before seeking admission.

Portfolios
The Faculty requires the submission of portfolios of personal work by each student at two formal portfolio reviews. The Portfolio policy is described in a handout available from the main office. Students are advised to prepare their design work for inclusion in their portfolios at the end of each design semester, instead of waiting until just before the portfolio due dates. Some expense, varying widely according to reproduction technique and/or ambition, should be anticipated.
Graduate Certificate in Community Design and Development

Sponsored and managed by the USF school of Architecture and Community Design, this graduate certificate curriculum offers an opportunity for specialized, post-professional degree studies in the emerging paradigms of theory, practice and technology of sustainable urban communities' design and development. The Certificate in Community Design and Development (CD&D) is open to a wide range of built environment design, planning, engineering, and management professionals currently practicing within the region, as well as offering opportunity for concurrent CD&D specialization for currently enrolled USF Master of Architecture candidates.

Required core courses within the total 18 SCH (Student Credit Hour) curriculum include:
- Green Building Seminar-Workshop (3SCH);
- Community Design and Development Workshop (4SCH); and
- Urban Growth Management Principles (3SCH).

Other graduate-level elective courses may be selected from offerings of various USF units and will focus on the certificate student's particular career enhancement objectives.

Course Descriptions

**ARC 5175 COMPUTER TECHNOLOGY** (3) Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting. (PR: CC)

**ARC 5216 THE BUILDING ARTS** (3) Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specializations of the experts involved the process, and in the various academic courses that prepare the architect for practice. (PR: CC)

**ARC 5256 DESIGN METHODS** (3) Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design. (PR: Calculus, ARC 5360, CC)

**ARC 5361 ARCHITECTURAL DESIGN I** (6) First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed. (PR: CC)
ARC 5362 ARCHITECTURAL DESIGN II (6) Second of a two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagraming, and model studies are stressed. (PR: ARC 5361, CC)

ARC 5363 ARCHITECTURAL DESIGN III (5) Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants. (PR: ARC 5362, ARC 5216, ARC 5467, ARC 5587, ARC 5731, ARC 5689, CC)

ARC 5364 ARCHITECTURAL DESIGN IV (5) Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for handicapped persons, fire escape, etc. (PR: ARC 5363, CC)

ARC 5365 ARCHITECTURAL DESIGN V (5) Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details. (PR: ARC 5256, ARC 5364, ARC 5467, ARC 5588, ARC 5689, ARC 5782, CC)

ARC 5366 ARCHITECTURAL DESIGN VI (5) Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process. (PR: ARC 5365, CC)

ARC 5467 MATERIALS AND METHODS OF CONSTRUCTION (4) Overview of properties of primary materials and construction systems which comprise building structure and enclosure. Emphasis on interface and connection of elements and assemblies, relative to climate, assembly processes, costs, codes, and craftsmanship. Lab sessions include field trips to manufacturing facilities, construction sites, and preparation of drawings and models of assemblies. (PR: ARC 5470, CC)

ARC 5470 INTRODUCTION TO TECHNOLOGY (3) Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.
ARC 5587 STRUCTURES I (3) Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior. (PR: Calculus, Physics, and ARC 5760, CC)

ARC 5588 STRUCTURES II (3) Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction. Prestressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques. (PR: ARC 5587, CC)

ARC 5689 ENVIRONMENTAL TECHNOLOGY (4) Comprehensive review of mechanical, electrical, and plumbing systems for buildings. Energy utilization, heating and cooling, water delivery and waste removal, fire protection, illumination, transportation systems, and acoustics. Lab exercises include computer simulations, illumination studies, thermal performance studies. (PR: Physics, ARC 5470, CC)

ARC 5731 ARCHITECTURAL HISTORY I (3) Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.

ARC 5732 ARCHITECTURAL HISTORY II (3) Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.

ARC 5789 MODERN ARCHITECTURE HISTORY (3) Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques. (CC, CI)

ARC 5793 HISTORY ABROAD (3) Summer study abroad. Location and description varies from year to year. (PR: CC)

ARC 5920 ARCHITECTURAL DESIGN STUDIO ABROAD (5) Summer study abroad. Location and description varies from year to year. (PR: CC)

ARC 5931 SPECIAL STUDIES IN ARCHITECTURE (1-5) Variable titles offered on topics of special interest. Repeatable with different subject matter. (PR: CC)

ARC 6176 ADVANCED COMPUTER TECHNOLOGY (3) Elective course dealing with further development of CAD skills, focusing on three-dimensional modeling. A wide range of software programs is included which explores painting and shading, surface textures, 3D detail studies, perspectives, and oblique representations. (PR: ARC 5175, CC)
ARC 6287 PROFESSIONAL PRACTICE I (3) Introduction and overview of professional practice, emphasizing business, organization, management, and marketing. Legal, economic, and ethical aspects of project procurement, design services, and delivery. Contracts, owner- contractor-architect roles and responsibilities. (PR: ARC 5216, ARC 5364, CC)

ARC 6288 PROFESSIONAL PRACTICE II (3) Continued overview of professional practice, emphasizing legal, economic, and ethical aspects of practice. Project planning, funding, administration, risk management, and performance. Topics include: estimating, financing, life-cycle cost analysis, information resources and management. (PR: ARC 6287, CC)

ARC 6397 INTRODUCTION TO URBAN DESIGN THEORY, METHODS & PROCESSES (3) Introduction to the concepts, methods, and manifestations of urban design and city-building. Focus on both traditional city and modern city conditions. Student will gain a basic understanding of the design structure, order, function and character of cities and towns and assess various qualitative aspects of these conditions. Relationships between processes of architecture, landscape architecture, site planning, preservation and other relevant acts of city-building will be considered as referential points-of-view in assessing certain complexities of urban morphology. (PR: CC)

ARC 6471 ADVANCED TOPICS IN MATERIALS AND METHODS (3) Analysis and design of advanced construction assemblies. Specific focus on application and integration of multiple systems and components. Research in new materials and methods. Documentation and model and analysis. (PR: ARC 5175, 5587, 5588, CC)

ARC 6481 DESIGN DEVELOPMENT (4) Summary course in the technology sequence in which construction, structural, and environmental technology systems are integrated within architectural design projects. Emphasis is placed on the poetic as well as the technical aspects of building systems. (PR: ARC 5470, 5587, 5588, 5467, 5689, and a minimum of one of ARC 6692, 6471, or 6596, CC)

ARC 6596 ADVANCED TOPICS IN STRUCTURES (3) Analysis and design of advanced structures; specific focus on architectural applications; integration with electro-mechanical systems. Research of special aspects of structure, computer simulation, and/or preparation of structural models. (PR: ARC 5175, 5587, 5588, CC)

ARC 6692 ADVANCED TOPICS IN ENVIRONMENTAL TECHNOLOGY (3) Analysis and preliminary design of advanced environmental control systems; specific focus on architectural applications; integration with structural and construction systems. Research of special aspects of ET systems, computer simulation and analysis techniques. (PR: ARC 5175, 5689, CC)

ARC 6942 URBAN DESIGN PRACTICUM (3-6) "Hands-on" experience in both theoretical and practical aspects of actual projects on-going at the Florida Center for Urban Design and Research.
ARC 6971 MASTER'S PROJECT (2-6) The Master's Thesis represents the most significant project in the student's academic preparation for a career in architecture, and the demonstration of the student's ability to synthesize learned skills into a convincing independent work of professional quality. The Master's Thesis will typically be a major design project, although the format of a more traditionally academic thesis is also possible. In either case, the student will work with a committee composed of advisors of his/her choice in selecting the topic of the project, organizing and carrying out the work in an independent and self-paced manner. The outcome should be an original project which demonstrates the student's academic and professional competence according to the state of the art. (PR: ARC 6974, CC)

Applied Behavior Analysis

This program was pending BOR approval at time of publication. For more information contact Graduate Studies.
The Louis de la Parte
FLORIDA MENTAL HEALTH INSTITUTE

4202 E. Fowler Avenue, MHC 1101
Tampa, FL 33620
(813) 974-4602

e-mail address: friedman@fmhi.usf.edu
WebAddress: http://www.fmhi.usf.edu

Dean: David L. Shern
Associate Dean: Barbara Morrison-Rodriguez


Graduate Certificates: Planning, Evaluation and Accountability
(Interdisciplinary Graduate Certificate - refer to Graduate Certificate listing)

Academic Departments:
- Aging and Mental Health (MHC 2700) 974-4453
- Center for HIV/AIDS Education and Research (MHC 1430) 974-4430
- Child and Family Studies (MHC 2312) 974-4640
- Community Mental Health (MHC 1416) 974-4632
- C&F Professional Development Center (PDC) (MHC 1517) 974-4606
- Juvenile Justice Training Academy (JJTA) (MHC 1517) 974-4606
- Mental Health Law & Policy (MHC2632) 974-4510

Louis de la Parte Florida Mental Health Institute is a multidisciplinary research, training and service facility whose mission is to strengthen mental health services. It is Florida's only mental health research institute. Located at the northwest corner of the USF Tampa campus, FMHI offers training and research opportunities to undergraduate and graduate students, professionals in mental health and related areas, and the public. FMHI offers students field placements, internships, research assistantships, and volunteer and part-time employment opportunities. Students may earn academic credit for clinical placements, internships, tutorials or independent research performed at the Institute in conjunction with USF courses. In addition to the Graduate Certificate, two other educational opportunities include:

1) A 12-month supervised internship program, accredited by the American Psychological Association for Ph.D. level clinical psychology graduate students and

2) A multicultural training program to encourage minority undergraduate and graduate students to enter the mental health fields.
Course Descriptions

The following courses are offered by the Institute, in support of the Graduate Certificate.

**MHS 6900 SPECIAL TOPICS IN PLANNING, EVALUATION, AND ACCOUNTABILITY (1-3)** This course will address selected topics through lecture and class discussion. At least 3 credits in research and evaluation at the graduate level is required.

**MHS 7100 SURVEY COURSE IN PLANNING, EVALUATION AND ACCOUNTABILITY (3)** This introductory core course is designed to provide a comprehensive overview of planning, evaluation and accountability methods within a systems context. Emphasis is placed on a broad range of quantitative and qualitative methods.

**MHS 7200 EVALUATION OF SYSTEM REFORMS AND COMMUNITY-BASED INITIATIVES (3)** This course discusses the special challenges in evaluating large-scale system reform and community-based initiatives. Alternative approaches to such evaluations are presented, and are illustrated with examples from programs serving children and adults. The role of theories of change as a basis for the evaluations is emphasized.

**MHS 7300 ACCREDITATION AND LICENSURE OF HEALTH CARE ORGANIZATIONS (3)** Examination and discussion of voluntary accreditation and governmental licensure: the principal formal methods of holding health care organizations accountable for the quality of service they provide. Emphasis is on current status and requirements of accrediting and licensing authorities.
GRADUATE STUDENT SERVICES

The University is committed to the concept of total student development — intellectual, social, physical, and moral. The curricular, co-curricular, and extracurricular programs are designed to achieve this in an atmosphere of openness and candor. The programs are presented according to guidelines established by the Florida Board of Regents (Section 6C Florida Administrative Code).

The programs listed here are only a sample of what is available to students. For more information on available services and activities, please refer to the Graduate Student Passport Publication, available from the Office of Graduate Admissions, or check the website at www.grad.usf.edu.

Auxiliary Services
813-974-2631
Location: AVA 0094

The Division of Learning Technologies, a centralized all University service, provides media support and consultation for the improvement of instruction and serves the varied non-instructional needs of the University. The following services are available to students, faculty, and staff members: Audio-Visual Services, Film and Video Distribution, Graphic Design, Media Productions, Media Supplies and Services.

The ID Department produces the University’s official card for all students, faculty, and staff. The ID office is open throughout registration, the first week of class and special hours when needed. Check with the ID department for general semester hours.

Media Productions complements the video production and recording needs of the university by providing an in-house classroom studio production facility. The studios are part of the University’s Instructional Television Fixed Services (ITFS) network. Courses, teleconferences, and meetings can be recorded or transmitted live to any designated receive site within a 25-mile radius of the Tampa campus.

The Division also provides services for the reception of satellite-transmitted, interactive programs, conferences and discussions from anywhere in the world.

Book Stores
813-974-2631 (Tampa Campus)
Location: BKS 0269

USF has several bookstores to meet student supply needs. The main USF Bookstore and Textbook Center on the Tampa Campus offers a variety of merchandise for the USF Community. New and used textbooks, study guides, workbooks and reference books, as well as gift items, magazines, USF clothing, and general interest books are available. The bookstore stocks all course required supplies. Other bookstores locations may be found at the Medical Center (MDC 102), the St. Petersburg Campus (in Coquina Hall), and the Lakeland Campus (in Building E).
Career Resource Center
813-974-2171
Location: SVC 2088
The University of South Florida Career Center is a centralized, comprehensive career planning and job search service for current students and graduates of the University of South Florida. The Career Center’s mission is to:
- Help students/alumni plan, refine and implement personal career goals and job search strategies
- Provide current information on employment opportunities, labor market trends, career planning and job search strategies
- Create venues for students/alumni to network and/or interview with employers
The Career Center is open Monday - Friday, 8:00 AM to 5:00PM.

Center for Teaching Enhancement
813-974-2576
Location: SCV 1088
USF’s Center for Teaching Enhancement opened on September 4, 1990, with permanent funding awarded from the State University System’s Competitive Grant Program for Enhancing Undergraduate Education.

The Center for Teaching Enhancement at the University of South Florida was established to promote personal reflection and scholarly dialogue on the art, science and craft of university teaching. The Center sponsors publications, workshops, and research which critically examine and promote instructional excellence. In addition, the Center offers opportunities for individuals to improve their teaching effectiveness using classroom visitations and/or mid-semester student feedback.

Counseling Center for Human Development
813-974-2831
SVC 2124
The mission of the Counseling Center for Human Development is to help students grow as whole individuals — emotionally, intellectually, and socially. Counseling Center professional staff assist students in improving self awareness, exploring personal concerns, improving learning skills, and making academic, career, lifestyle, and relationship decisions.

Counseling Center Services are available to all currently registered USF students Monday through Friday, 8:00 A.M. to 5:00 P.M. Students may initiate services by visiting the Center located on the second floor of the Student Services Building (SVC) in suite 2124. Privacy and confidentiality are protected in accordance with Florida mental health law.

Information Technology (IT)
813-974-2930
Location: SVC 4010
USF is the host institution for the Central Florida Regional Data Center. This facility operates as a computing utility within the SUS and provides administrative, instructional, and research computing support for the University and numerous other agencies. Charges are made at published rates on a “pay for services rendered” basis.

The computer center’s professional staff includes instruction and research consultants who assist qualified student and faculty working on projects. In the data systems area, services to University administrative units are delivered by project teams composed of systems
coordinators, systems analysts, and programmers. The staff also consists of data entry, data control, and computer operations personnel and systems (software) technical specialists.

Central site computing equipment is located in the Student Services Building on the Tampa campus. Remote batch job entry and on-line terminals operate at various locations on campus. Remote access units and terminals are also located at the St. Petersburg, Sarasota, Lakeland, and Fort Myers campuses. Both Macintosh and IBM-compatible computers, printers, and other associated equipment are also maintained for use by faculty staff and students in "open use" labs throughout the campus. These remote open use areas may vary in their scheduled hours of operation, but, generally speaking, each provides significant amounts of access, normally seven days a week.

International Student and Scholar Services
813-974-5102
Location: CTR 259
The University of South Florida welcomes qualified students from other countries. International educational exchange contributes to the enrichment of campus life, intellectual development, research, and understanding, and exposes students, faculty, and staff to different cultural and national perspectives, experiences, and ideas.

International Student and Scholar Services (ISSS), located in the Marshall Center provides services and programs to international students. The staff is available to counsel students and scholars on immigration matters, as well as on the financial, social, personal, and academic aspects of student life. The ISSS regularly schedules informational and cultural activities. The American Friend Program is designed to help orient international students to American family life. The English Conversation Program offers students and scholars an opportunity to practice their English speaking and listening skills outside an academic setting.

Library System
Tampa Campus
813-974-2127
Location: LIB 207
The University of South Florida Library System provides general library services at all of its campuses. In addition, there are two specialized libraries on the Tampa Campus: the Health Sciences Center Library and the Florida Mental Health Institute Library.

The Tampa Campus Library collection consists of more than 1 million volumes and is constantly growing, contains a depository for U.S. Government publications, houses the University Media Center, and provides media services to classroom instructors. The Special Collections Department is divided into the Center for the Book, the Center for Florida Studies, and the Center for Child Writing.

Office of Research
813-974-5570
Location: ADM 200
Research and scholarly activities are essential aspects of educational programs at the University of South Florida. Faculty members are encouraged to pursue research and scholarly activities that will allow students to participate in research and training projects. In support of these endeavors, the Office of Research and its divisions are dedicated to providing opportunities for faculty, staff, and students.

Division of Sponsored Research (DSR) is the central coordinating unit for sponsored research activities on all campuses. DSR provides information about funding sources to faculty
and students and serves as a consultation center for faculty who desire to submit proposals for funding. All proposals for outside support must be transmitted through DSR.

Growth in external funding at USF has been phenomenal. In 1994/95, USF faculty received more than $100 million dollars from external sources to pursue research and other activities. Through their search for new knowledge, USF faculty and students have made significant contributions to the University's instructional programs and demonstrated concern for society.

**Division of Technology Development & Transfer** provides support to both faculty and student researchers on such matters as developing and maintaining copyrights, trademarks, and patents, evaluating technology for commercial potential, and marketing the commercialization of University research products. Through the affiliated **USF Research Foundation**, technology transfer to applications that benefit the public is made possible.

**Phyllis Marshall Center**

813-974-3180 (Information Desk)

**Location:** CTR 246

The Phyllis Marshall Center and adjacent Special Events Center is a focal point of daily activity for students, faculty, administrators, alumni, guests, and visitors. The Marshall Center houses a Food Court, bake shop, Rocky's Empty Keg, computer services, organizational offices, meeting rooms, Center Studios, Game Room, study lounges, travel agency, USF Credit Union and more.

The Information Desk, located in the lobby, serves as the coordinating center for services and activities in the Center and the University. Services available include discount ticket sales, recorded campus tours, Tampa area bus schedules, official USF lost and found, graduation announcements, Flea Market arrangements, and current events information.

**Residence Services**

813-974-2761

**Location:** RAR 229

Every regularly enrolled graduate student is eligible to apply for University residence hall space. Since space is limited, students are encouraged to apply early by contacting the Department of Residence Halls; RAR 229; 4202 E. Fowler Avenue, Tampa, FL 33620-7700.

Housing for non-traditional students including married couples and families will open in the fall of 2001. All residence halls at the University of South Florida are smoke-free.

Residence Halls provide a core of services for residents, including a central communications desk, mail delivery, food service, swimming pool, and study lounges. Basic in-room cable television service and local telephone service is provided in each room at no additional charge. Most residence hall rooms are also equipped with ethernet service. Each room is furnished with a bed, desk, chair, dresser, blinds, closet, and a bookshelf for each resident. The Student Government office, located in the Marshall Center, maintains a list of off-campus housing. Listings are accepted only from householders and landlords who do not discriminate because of race, color, or national origin. Rental arrangements may best be made before the University opens. Fall semester arrangements may be made during the summer.

**Students with Disabilities**

813-974-4309

**Location:** SVC 2043

All University programs, events and services are open and available to persons with disabilities. The University of South Florida is committed to the principles of Equal Educational and
Employment Opportunities without regard to disability.

The Disabled Student Academic Services Office coordinates auxiliary learning aid assistance to eligible students with disabilities. Course related assistance and accommodations such as reader services, interpreters, alternate exam administration, notetakers, and adaptive equipment such as TELEX FM systems, large print computer access/Visualteks are available through this office. Students who require no direct academic assistance may qualify for priority registration upon supplying medical documentation of their disability. Students are encouraged to contact this office prior to enrollment to make arrangements for services.

Students with state parking privileges need only supply their state card as documentation for eligibility for a USF disabled parking hangtag/sticker. Students without state privileges need medical documentation to be considered for on campus disabled parking.

Accessible on-campus residence hall housing is available for students with special needs. Specific information is available through the Director of Residence Halls, RAR 229.

Students with disabilities are encouraged to participate fully in all University events, programs, and other campus activities. Information on whom to contact to request accommodation or assistance should be listed on program information and advertisements.

The following offices arrange academic accommodations and assistance for students with disabilities:

Tampa Campus: Coordinator of Disabled Student Academic Services SVC 2043
813-974-4309 (Voice) 974-5651 (TDD)

Sarasota Campus: Coordinator for Advising for Special Needs Students PMD 223
813-359-4330

Lakeland-Campus: Office of the Director for Academic Services, Building C, USF
Offices 813-677-7000
St. Petersburg Campus: Office of the Director, Student Affairs, DAV 118,
813-893-9162

Student Health Services
813-974-2331
Location: SHS 100

The University Student Health Services provides comprehensive health care for all health fee paying students. Student Health Services functions as a walk-in clinic and maintains a day infirmary only. It is very important to bring your current validated ID card when you come. Several specialty clinics are offered at a reduced cost, i.e., gynecology, antigen, dermatology clinics. Other services offered are a clinical laboratory and multiple health education programs.

Student Publications
813-974-2617
Location: CPR 472

The Oracle, a campus newspaper, is published Monday through Frida during the fall and winter and twice a week during the summer. The award-winning ORacle provides training and professional experience for those students interested in print journalism, layout and design, and advertising. Graduate students interested in staff positions are invited to apply.

University Police
813-974-2628
Location: UPB 002

The USF Police Department, located at the intersection of Maple and Fletcher, provides the full
range of public safety services to the community 24 hours a day, seven days a week. All University Police Officers are commissioned Law Enforcement Officers of the State of Florida. The telephone number for on-campus emergencies (personal injuries, fires, crimes in progress) is 911. The telephone number for on-campus non-emergencies is 974-2628.

Veterans Services
813-974-2291
Location: SVC 2127
The University of South Florida is approved for the education of veterans, service members, and certain dependents of veterans, who are eligible for benefits under public laws now in effect. All degree programs currently offered at USF are approved by the State Approving Agency.

Students who are eligible for benefits are urged to contact the Veterans Services for information, procedures, and required forms as early as possible. To initiate, change, or renew benefits at USF, a request must be submitted through that office.

Programs to help students financially include the VA Work Study Program, VA Deferment of Fees, Advance Payment Program and VA Tutorial Assistance.

VA regulations require that students take only courses that are applicable to their degree programs or other approved program and make satisfactory progress toward their degrees. Students should consult the “Handbook for VA Students” (available at local Veterans Service offices) for information on various programs/services, and VA rules and regulations. Under no circumstances will the VA pay benefits to a student taking a course by audit. It is the student’s responsibility to inquire concerning all VA rules and regulations and to report any change in status that affects his/her benefits. Additionally, VA benefits will be terminated for students who are dismissed for academic or disciplinary reasons.

Veterans with a service-connected disability requesting benefits under Chapter 31 may contact the Student Financial Services Office no earlier than one week prior to the start of classes for a book and supplies voucher. Other VA benefits include additional amounts of compensation and pension, which may be payable to eligible veterans for the enrollment of dependent children. In this situation, the student’s parents or guardians are responsible for notifying the Department of Veterans Affairs Regional Office directly of enrollment and termination of enrollment. The DVA toll-free number is 1-800-827-1000.

Veterans Services is located on the Tampa campus in the Student Services Building (SVC) 2127. For more information, call 813-974-2291.

Victims' Advocacy Program
813-974-5756
Location: ADM 273
The Victims' Advocacy Program is available to assist all USF students or employees who are victims of actual or threatened violence, including, but not limited to battery, assault, sexual battery (date rape, acquaintance rape, stranger rape), and attempted sexual battery. Services provided include: information, support, and guidance in Crisis Intervention, emergency shelter, medical help, counseling referrals, and other assistance as required. Services are available 24 hours a day, seven days a week by calling USF Victim Advocate at 974-5757.

Police reports are strongly encouraged; however, reports are not required for information and referral assistance.
Glossary of Course Description Terms

Courses offered for credit by the University of South Florida are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY (3:1)

Credits separated by a comma indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicate variable credit:

MAT 7912 DIRECTED RESEARCH Var.

The following abbreviations are used in various course descriptions:

G       Graduate
PR      Prerequisite
CI      With the consent of the instructor
CC      With the consent of the chairperson of the department or program
CR      Co-requisite
Lec     Lecture
Lab     Laboratory
Dem     Demonstration
Pro     Problem
Dis     Discussion
ML      Master's Level
GS      Graduate Standing
Rpt     May be repeated
UL      Upper level
S/U     No grade, Satisfactory/Unsatisfactory Only

Course Level Definitions:
5000-5999 Senior/Graduate Level
6000-Up     Graduate Level

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.
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