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Florida International University

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Florida International University

Member of the State University System
Miami, Florida

2000 – 2001 Graduate Catalog

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FIU and Florida International University are registered marks. Florida
International University believes in equal opportunity practices which conform to all laws
against discrimination and is committed to nondiscrimination with respect to race, color,
creed, age, handicap, sex, marital status, or national origin. Additionally, the University is
committed to the principle of taking the positive steps necessary, to achieve the
equalization of educational and employment opportunities.

Note: The programs, policies, requirements, and regulations published in this catalog are
continually subject to review in order to serve the needs of the University's various
publics and to respond to the mandates of the Florida Board of Regents and the Florida
Legislature. Changes in programs, policies, requirements, and regulations may be made
without advance notice. The ultimate responsibility for knowing degree requirements
imposed upon students by State law rests with students.

This document was produced at an annual cost of $11,091 to $0.90 per copy to inform
the public about University Programs. Fees given in this catalog are tentative pending
legislative action.
## ACADEMIC CALENDAR 2000-2001*

<table>
<thead>
<tr>
<th>Fall Semester 2000</th>
<th>(August 28 – December 8; Final Exams December 9 – December 15)</th>
</tr>
</thead>
</table>

| May 22 | Undergraduate Studies Advising for Fall 2000 term resumes. |
| May 22 | First day to apply for Fall 2000 term graduation. |
| July 5  | Transfer Orientation (North Campus). |
| July 6 – 7 | Freshman Orientation (University Park). |
| July 10 – 11 | Freshman Orientation (University Park). |
| July 13 | Transfer Orientation (University Park). |
| July 13 – 14 | Freshman Orientation (North Campus). |
| July 17 – 18 | Freshman Orientation (University Park). |
| July 20 – 21 | Freshman Orientation (University Park). |
| July 23 – 24 | Freshman Orientation (University Park). |
| July 28 | Transfer Orientation (University Park). |
| August 1 – 2 | Freshman Orientation (North Campus). |
| August 3 | Transfer Orientation (North Campus). |
| August 7 – 11 | Registration Access Information available for Fall 2000 term. |
| August 14 – 18 | Official Registration Week (Degree-Seeking Students only) by appointment time and day. |
| August 21 – 25 | Open Registration (All Students). |
| August 26 | Last day to register without incurring a $100.00 late registration fee. |
| August 28 | Classes begin. |
| August 28 – Sept. 2 | Short Term Tuition Loan Applications available for registering students. |
| August 28 – Sept. 2 | Registration for State Employees using fee waivers. |
| September 2 | Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment. |
| September 2 | Last day (by 1 p.m.) to complete late registration. |
| September 2 | Drop/Add Period ends at 1 p.m. |
| September 2 | Last day to change a grading option. |
| September 2 | Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring a financial liability. |
| September 2 | Last day for students to apply and to sign Short Term Tuition Loan promissory notes and validate class schedules. |
| September 4 | Labor Day Holiday (University Closed). |
| September 8 | CLAST exam registration deadline. |
| September 15 | Last day (by 5 p.m.) to apply for graduation at the end of Fall 2000 term. |
| September 15 | Last day to submit FORM C(3). |
| September 23 | Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition. |
| September 25 | Undergraduate Studies Advising for Spring 2001 term begins. |
| September 30 – Oct. 1 | Rosh Hashanah** |
| October 6 | Faculty Convocation. |
| October 7 | CLAST Exam. |
| October 9 | Yom Kippur** |
| October 9 – Dec 8 | Fall 2000 Mini-Term |
| October 21 | Deadline (by 1 p.m.) to drop a course with a DR grade. |
| October 21 | Deadline (by 1 p.m.) to withdraw from the University with a WI grade. |
| November 10 | Veterans’ Day Holiday Observed (University Closed). |
November 11  Veterans’ Day Holiday (University Closed).
November 14  Last day to submit FORM D(1)(2).
November 23 – 24 Thanksgiving Holiday (University Closed).
November 28  Last day to hold the defense.
December 8  Classes end.
December 9 – 15 Official Examination Period.
December 15  Last day to submit final copy and FORM F(2).
December 18  Grades due.
December 19 & 20 Commencement Exercises.
December 21  Grades available to students by telephone, web and at kiosks.
December 25  Christmas Holiday (University Closed).

Spring Semester 2001  (January 8 – April 20; Final Exams April 21 – 27)

September 1  Last day for International Students to submit applications and all supporting documents for Spring term admission.
September 11 First day to apply for Spring 2001 term graduation.
October 1  Admission application priority consideration deadline (except international students).
November 8 - 9  Freshman Orientation (North Campus).
November 10  Veterans’ Day Holiday Observed (University Closed).
November 11  Veteran’s Day Holiday (University Closed).
November 13 - 17 Registration Information and Access Codes available for Spring 2001 term.
November 18 - 22 Official Registration Week (Degree-Seeking Students only) by appointment time and day.
November 23 - 24 Thanksgiving Holiday (University Closed). Telephone and Web Registration Continuous.
November 27 - Jan. 12 Open Registration All Students. Telephone and Web Registration Continuous
November 15  Transfer Orientation (University Park & North Campus).
November 16 - 17 Freshman Orientation (University Park).
December 25  Christmas Holiday (University Closed).
January 1  New Year’s Day (University Closed).
January 2  Transfer Orientation (University Park).
January 3 – 4  Freshman Orientation (University Park).
January 5  International Student Orientation (University Park & North Campus).
January 5 – 7  Housing check-in 9 a.m. - 8 p.m.
January 6  Last day to register without incurring a $100.00 late registration fee.
January 8  Classes begin.
January 8 - 13 Registration for State Employees using fee waivers.
January 8 - 13 Short Term Tuition Loan Applications available for registering students.
January 13  Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
Last day (by 1 p.m.) to complete late registration.
Drop/Add Period ends at 1 p.m.
Last day to change grading option.
Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
Last day for students to apply and to sign Short Term Tuition Loan promissory notes and validate class schedules.
January 15  Martin Luther King Holiday (University Closed).
January 19  Last day (by 5 p.m.) to apply for Spring 2001 term graduation.
January 19  Last day to register for the CLAST exam.
January 19  Last day to submit FORM C(2).
January 29  Undergraduate Studies Advising for Summer/Fall 2001 terms begins.
February 3  Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.
February 17  CLAST exam.
Feb. 19 – April 20 Spring 2001 Mini-Term
March 3  Last day (by 1 p.m.) to drop a course with a DR grade.
March 19 – 24 Last day (by 1 p.m.) to withdraw from the University with a WI grade.
Spring Break.
March 23  Last day to submit FORM D(1)(2).
April 6  Last day to hold defense.
April 8 – 9  Passover**
April 13  Good Friday**
April 14 – 15  Passover**
April 20  Classes End.
April 21 – 27  Official Examination Period.
April 27  Last day to submit final copy and FORM F(2).
April 30/May 1  Commencement Exercises.
May 1  Grades due.
May 3  Grades available to students by telephone, web and at kiosks.

**Complete Summer Semester 2001** (May 7 – August 16)
April 11  Transfer Orientation (North Campus).
April 12  Transfer Orientation (University Park).
April 9 – 13  Registration Information and Access Codes available for Summer term.
April 16 – 20  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
April 23 – May 12  Open Registration (All Students).
May 4  International Student Orientation (University Park & North Campus)
May 4  Last day to register for the June 2nd CLAST exam.
May 4 – 6  Housing Check-in 9 a.m. to 8 p.m. for Summer Term A.
May 5  Last day to register without incurring a $100.00 late registration fee.
May 7  Classes begin.
May 7 – 12  Registration for State Employees using fee waivers. (Summer A & C only)
May 7 – 12  Short Term Tuition Loan Applications available for registering students.
May 12  Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
        Last day (by 1 p.m.) to complete late registration.
        Drop/Add Period ends at 1 p.m.
        Last day to change grading option.
        Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
        Last day for students to apply to and to sign Short Term Tuition Loan promissory notes and validate class schedules.
May 25  Last day (by 5 p.m.) to apply for Summer 2001 graduation.
May 25  Last day to submit FORM C(2).
May 28  Memorial Day Holiday (University closed).
May 29  Undergraduate Studies Advising for Fall 2001 term resumes.
June 2  Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.
June 2  CLAST exam.
June 30  Last day (by 1 p.m.) to drop a course with a DR grade.
        Last day (by 1 p.m.) to withdraw from the University with a WI grade.
June 29  International Student Orientation (University Park & North Campus).
June 29 – July 1  Housing Check-in 9 a.m. to 8 p.m. for Summer Term B
July 4  Independence Day Observed (University Closed).
July 13  Last day to submit FORM D(1)(2)
July 27  Last day to hold defense.
August 16  Classes end
August 17  Last day to submit final copy and FORM F(2).
August 20  Grades due.
August 22  Grades available to students by telephone, web and at kiosks.

**Summer Term A** (May 7 – June 22)
May 4  Last day to register for June 2nd CLAST exam.
May 4 – 6  Housing check-in 9 a.m. to 8 p.m.
May 7  Classes begin.
May 7 – 12  Registration for State Employees using fee waivers. (Summer A & C only)
May 12  Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
        Last day (by 1 p.m.) to complete late registration.
        Drop/Add Period ends at 1 p.m.
        Last day to change grading option.
Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring a financial liability.

May 28  Memorial Day Holiday (University closed).
June 2  Last day (by 1 p.m.) to drop a course with a DR grade.
         Last day (by 1 p.m.) to withdraw from the University with a WI grade.
Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.
June 2  CLAST exam.
June 22  Classes end.***
June 26  Grades due.
June 28  Summer Term A grades available to students via the web and at kiosks.
August 22 Final grades and GPA calculation available by telephone, web and at kiosks.

Summer Term B  (July 2 – August 16)
June 14 – 15  Freshman Orientation (North Campus).
June 18 – 19  Freshmen Orientation (North Campus).
June 18 – 30  Summer Term B registration resumes
June 21 – 22  Freshman Orientation (University Park & North Campus).
June 25 – 26  Freshmen Orientation (University Park).
June 27 – 28  Freshman Orientation (University Park).
June 29  International Student Orientation (University Park & North Campus)
June 29 – July 1  Housing Check-in 9 a.m. to 8 p.m. for Summer Term B.
June 30  Last day to register without incurring $100.00 late registration fee.
July 2  Classes begin.
July 2 – 7  Registration for State Employees using fee waivers. (Summer B only)
July 4  Independence Day Observed (University Closed).
July 7  Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
         Last day (by 1 p.m.) to complete late registration.
         Drop/Add Period ends at 1 p.m.
         Last day to change grading option.
         Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
July 28  Last day (by 1 p.m.) to drop a course with a DR grade.
         Last day (by 1 p.m.) to withdraw from the University with a WI grade.
         Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.
August 16  Classes end.
August 20  Grades due.
August 22  Grades available to students by telephone, web and at kiosks.
August 27  Fall semester classes begin.

*Calendar dates are subject to change. Please contact appropriate offices for verification and updates.
**No examinations or major quizzes may be given during the designated hours. Jewish holidays begin at 4 p.m. the day before the holiday and end at 7 p.m. the day of the holiday.
***Grades will be posted on transcripts. However, graduation will not be processed until the end of the Complete Summer Term, August 16.
General Information

State Board of Education
Jeb Bush Governor
Katherine Harris Secretary of State
Robert Butterworth Attorney General
Robert F. Milligan Comptroller
Bill Nelson State Treasurer
and Insurance Commissioner
Bob Crawford Commissioner of Agriculture
Tom Gallagher Commissioner of Education

Florida Board of Regents
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Gwendolyn F. McLin Vice Chairman, Okahumpka
Tom Gallagher Commissioner of Education, Tallahassee
James D. Corbin Chattahoochee
Charlton B. Daniel, Jr. Gainesville
Adolfo Henquies Miami
James F. Heekin, Jr. Orlando
Philip D. Lewis Riviera Beach
Elizabeth G. Lindsay Sarasota
J. Collier Merrill Pensacola
Jon C. Moyle West Palm Beach
Steven J. Uhlfelder Tallahassee
Welcom H. Watson Fort Lauderdale
Ashley B. Moody Student Regent, University of Florida
Adam W. Herbert Chancellor, State University System

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Mark B. Rosenberg Provost and Executive Vice President for Academic Affairs
Paul D. Gallagher Senior Vice President for Business and Finance
Gwendolyn V. Boyd Vice President for Administration
Thomas A. Breslin Vice President for Research and Graduate Studies
Steve Sauls Vice President for University Relations
Patricia Telles-Irvin Vice President for Student Affairs
Dale C. Webb Vice President for University Advancement

History
Florida International University, a member institution of the State University System of Florida, was established by the State Legislature on June 22, 1965. Classes began at University Park on September 19, 1972, with nearly 6,000 students enrolled in upper-division undergraduate and graduate programs. In 1981 the University added lower division classes for freshmen and sophomores, expanding its enrollment capacity. In 1984, the University received authority to begin offering degree programs at the doctoral level; these programs received Level IV accreditation from the Southern Association of Colleges and Schools (SACS) in 1986.

The Florida Board of Regents appointed Charles E. Perry as the first president of FIU in July of 1969. He was succeeded in June, 1976 by President Harold B. Crosby. Gregory B. Wolfe was named the third president in February, 1979. Modesto A. (Mitch) Maidique was named the fourth President of Florida International University on August 27, 1986. Maidique received his Ph.D. in Electrical Engineering from the Massachusetts Institute of Technology and was associated with MIT, Harvard, and Stanford for 20 years.

University Mission
Florida International University is an urban, multirampus, research university serving Southeast Florida, the state, the nation and the international community by imparting knowledge through excellent undergraduate and graduate teaching, by creating new knowledge through research, and by promoting public service.

Five strategic themes guide the University's development: International, Environmental, Urban, Health, and Information. We focus on these themes with a commitment to quality management and cultural diversity. The University's priorities are to graduate a well-educated, technologically sophisticated, ethically diverse student body, who can think critically about a changing world; to continue to enhance undergraduate teaching while broadening graduate and professional programs; to promote research and creative activities which contribute to the social, artistic, cultural, economic, environmental, scientific and technological foundations for the 21st century; and to solve critical social, educational, environmental, health and transportation problems through applied research and service. These strategic themes and priorities guide our pursuit of recognition as one of America's top 25 public urban research universities while maintaining the highest quality of undergraduate programs.

(Calculated by Florida Board of Regents, Fall 1999)

Campuses
FIU has two major campuses, University Park in western Miami-Dade County and the North Campus in North Miami. It also has two academic sites that serve Broward County, in Davie and downtown Fort Lauderdale.

Architecturally distinctive University Park, FIU's first campus and administrative headquarters, occupies 342 acres of lush tropical landscaped grounds. Apartment style and traditional residence halls, the Golden Panther Sports Arena, a new state-of-the-art eight-story Library, an environmental preserve and other athletic facilities contribute to a pleasant collegiate atmosphere. The 40-acre Center for Engineering and Applied Science, a major research facility, is located near University Park.

The North Campus encompasses nearly 200 acres, including a natural mangrove preserve. Its scenic campus offers direct access to the bay, apartment-style housing, a library, an aquatic center, and the Roiz and Cal Kevins Conference Center, a state-of-the-art facility that can accommodate up to 500 persons.

The FIU Broward site in Davie emphasizes undergraduate programs. In cooperation with Broward Community College (BCC), there is a “2+2” program in which students enroll in BCC for the first two years of study and complete their degree at FIU. The Rubin O'D. Askew University Tower, in downtown Fort Lauderdale, is primarily utilized for master's and doctoral programs, research and administrative offices.

Research Programs
Florida International University emphasizes research as a major component of its mission, and attainment of Research 1 status is one of its top priorities. Sponsored research funding from outside sources grew more than fivefold over the last decade, from $8.46 million in 1988-89 to $44.62 million in 1998-99. These funds, secured through contracts and grants from private foundations, corporations, and federal and state agencies, are used to conduct research, provide stipends for graduate
students and improve research facilities.

The University
Florida International University is one of America's most dynamic young universities. Since opening in 1972, FIU has achieved many benchmarks of excellence that have taken other universities more than a century to reach. The University has a nationally renowned full-time faculty, known for their outstanding teaching and cutting edge research; students from throughout the U.S. and more than 130 foreign countries; and its alumni have risen to prominence in every field and are a testament to the University's academic excellence.

A member of the State University System of Florida, FIU is a research university offering a diverse selection of undergraduate, graduate and professional programs. Through its 16 colleges and schools, FIU offers more than 175 baccalaureate, master's, and doctoral degree programs in more than 280 majors, conducts basic and applied research, and provides public service. Committed to both quality and access, FIU meets the educational needs of traditional students as well as the increasing number of part-time students and lifelong learners. Interdisciplinary centers and institutes at the University conduct research and teaching that address economic and social concerns.

FIU currently has more than 31,000 students, 1,200 faculty and 83,000 alumni, making it the largest public university in South Florida. For the past four years, FIU was ranked among the top 100 public national universities in the U.S. News & World Report annual guide to "America's Best Colleges." FIU was the youngest institution in the group. The magazine has reported that FIU students are among the least indebted college students in the nation and recognized the University as a "best buy" in higher education. In 1998, Kiplinger's Personal Finance Magazine ranked FIU as the country's 18th best value in public higher education. FIU was named one of the top 10 public commuter colleges in the U.S. in the 1995 edition of Money Guide, an annual report published by Money magazine, and has been cited in several other of the country's leading college guides.

Accreditations
All academic programs of the University are approved by the State Board of Education and the Florida Board of Regents. The University 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 the baccalaureate, masters and doctoral degrees. The professional programs of the respective schools of the University are accredited or approved by the appropriate professional associations, or are pursuing full professional accreditation or approval. To obtain information about the Specialized Accreditation agencies, their criteria and review process contact the Chairperson/Director of the respective degree program through the Academic Affairs Directory: www.fiu.edu/provost/academicdirectory/colleges.html. The professional accreditating agencies and the respective FIU degree programs are listed in alphabetical order below.

Accounting
International Association for Management Education (AACSB)
Architecture
National Architectural Accrediting Board (NAAB)
Art Museum
American Association of Museums
Business
International Association for Management Education (AACSB)
Chemistry
American Chemical Society (Certified)
Computer Science
Computer Science Accreditation Commission
Construction Management
American Council of Construction Education
Dietetics and Nutrition
American Dietetic Association
Education
National Council for Accreditation of Teacher Education (NCATE)
Engineering
Accreditation Board for Engineering and Technology (ABET)
Health Information Systems
American Health Information Management Association
Health Services Administration
Accrediting Commission on Education for Health Services Administration
Journalism and Mass Communication
Accrediting Council on Education in Journalism and Mass Communications

Southeast Florida Educational Consortium
Florida International University, Broward Community College, and Miami-Dade Community College are charter members of the Southeast Florida Educational Consortium, which was established in 1977. This organization links the member institutions in planning, maintaining, and evaluating cooperative efforts in academic programs, student services, and administrative support services. The overall objectives of the Consortium are to:
1. Increase and improve educational opportunities.
2. Ensure smooth transition from the community college to the university.
3. Provide easy access to institutional services for students and faculty.
4. Effectively utilize human and fiscal resources.

Descriptions of specific cooperative arrangements between the Consortium member campuses and student and faculty procedures are given in the appropriate sections of this Catalog.
Academic Programs

College of Education
Master of Science in:
- Adult Education
- Art Education

Counselor Education (School Counseling and Community Mental Health Counseling)
- Early Childhood Education
- Educational Leadership
- Elementary Education
- English Education
- Health Education (Exercise Physiology Track)
- Health Occupations Education
- Home Economics Education
- Human Resource Development
- International Development Education
- Mathematics Education
- Music Education
- Parks and Recreation Management
- Physical Education
- Reading
- Science Education
- Social Studies Education
- Special Education (with a track in Varying Exceptionalities)
- Teaching English to Speakers of Other Languages (TESOL)
- Technology Education
- Urban Education
- Vocational Education (majors in Administration and Supervision, and Technical and Vocational Industrial Education)

Education Specialist (Ed.S.)
- Curriculum and Instruction
- Educational Leadership
- School Psychology

Doctoral Programs (Ed.D.)
- Adult Education and Human Resource Development
- Curriculum and Instruction
- Educational Administration and Supervision
- Exceptional Student Education
- Higher Education

College of Engineering
Master of Science in:
- Biomedical Engineering
- Civil Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- Environmental and Urban Systems
- Industrial Engineering
- Mechanical Engineering

Doctor of Philosophy in:
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

College of Health and Urban Affairs
Master of Science in:
- Criminal Justice
- Dietetics and Nutrition
- Medical Laboratory Sciences
- Nursing
- Occupational Therapy
- Physical Therapy

Master of Health Services Administration

Master of Public Administration
Master of Public Health
Master of Social Work

Doctor of Philosophy in:
- Dietetics and Nutrition
- Public Administration (jointly with FAU)
- Social Welfare

School of Hospitality Management
Master of Science in Hotel and Foodservice Management

School of Journalism and Mass Communication
Master of Science in Mass Communication

North Campus Programs

College of Arts and Sciences
Master of Fine Arts in Creative Writing
Master of Arts in English
Master of Science in Psychology
Doctor of Philosophy in Psychology

College of Education
Master of Science in Urban Education

College of Health and Urban Affairs
Master of Science in:
- Nursing
- Criminal Justice
- Master of Health Services Administration

Master of Public Administration
Master of Public Health
Master of Social Work
Doctor of Philosophy in:
  Public Administration (jointly with FAU)
Social Welfare

School of Hospitality Management
Master of Science in Hotel and Foodservice Management

School of Journalism and Mass Communication
Master of Science in Mass Communication

Broward County Programs

College of Education
Master of Science in Adult Education (UT)
Master of Science in Human Resource Development (UT)
Courses for Teacher Education (Broward Public Schools)
Courses in Vocational Teacher Education
Doctor of Education in Adult Education and Human Resource Development (UT)
Doctor of Education in Higher Education (UT)
  Majors in:
  Higher Education Administration
  and Higher Education Instruction
Doctor of Education in Curriculum and Instruction (UT)

College of Engineering
Master of Science in Construction Management (BC)

College of Health and Urban Affairs
Master of Health Services Administration (UT)
Master of Social Work (UT)

Primary Location:
  BC = Broward Program on BCC Central Campus - Davie
  UT = Askew University Tower - Fort Lauderdale

Certificates
Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.
Successful completion of a Certificate Program is entered on the student’s transcript and records. Two types of certificates are awarded:

Academic Certificate
A graduate academic certificate shall not be awarded to a student who does not possess either a bachelor’s degree or does not complete a bachelor’s degree program. A graduate academic certificate is to be interdisciplinary in nature, to the greatest extent possible.

Professional Certificate
Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with a degree program.
For details and course requirements, refer to the appropriate catalog or section in each College or School.

College of Arts and Sciences
Academic Certificates in:
  Actuarial Studies
  African-New World Studies
  American Studies
  Consumer Affairs
  Environmental Studies
  Ethnic Studies
  Geographic Information Systems
  Gerontological Studies
  International Studies
  Jewish Studies
  Labor Studies
  Latin American and Caribbean Studies
  Law, Ethics, and Society
  Linguistic Studies
  Western Social and Political Thought
  Women’s Studies

Professional Certificates in:
  Labor Studies and Labor Relations
  Legal Translation and Court Interpreting
  Translation Studies
  Tropical Commercial Botany

College of Business Administration
Academic Certificates in:
  Accounting
  Banking
  Business Environment
  International Bank Management
  International Business
  Marketing

Professional Certificates in:
  Managing Quality Health Care Systems
  Training and Human Resource Development
  Human Resources

College of Education
The College offers a variety of Professional Certificate and Add-On Teacher Certification programs. Refer to the College of Education program listing section.

College of Engineering
Professional Certificates in:
  Heating, Ventilation, and A/C Design,
  Medical Instrumentation, Medical Device Engineering

College of Health and Urban Affairs
Professional Certificates in:
  Development Administration and Management
  Gerontology
  Health Promotion
  Health Services Administration
  Human Resource Policy and Management
  International Comparative and Development Administration
  Justice Administration and Policy Making
  Law and Criminal Justice
  Occupational Therapy
  Public Management

School of Hospitality Management
Hotel Lodging Management
Restaurant and Foodservice Management
Travel and Tourism Management

School of Journalism and Mass Communication
Professional Certificates in:
  Student Media Advising
  Integrated Communications:
    Advertising and Public Relations
    Spanish Language Journalism

Evening and Weekend Degree Programs

College of Arts and Sciences
Master of Arts in:
  English
  Psychology
  Spanish
Master of Fine Arts in Creative Writing
Doctor of Philosophy in Geology

College of Business Administration
Master of Accounting
Master of Business Administration
Master of International Business
Master of Science in Finance
Master of Science in Taxation
Doctor of Philosophy in Business Administration

College of Education
Master of Science in:
  Adult Education
  Art Education
  Counselor Education (School Counseling and Community Mental Health Counseling)
  Early Childhood Education
  Educational Leadership
  Elementary Education
  English Education
  Health Education (Exercise Physiology Track)
  Health Occupations Education
  Home Economics Education
  Human Resource Development
  International Development Education
  Modern Language Education (majors in Spanish and French)
  Mathematics Education
  Music Education
  Parks and Recreation Management
  Physical Education
  Reading
  Science Education
  Social Studies Education
  Special Education (with a track in Varying Exceptionalities)
  Teaching English to Speakers of Other Languages (TESOL)
  Technology Education
  Urban Education
  Vocational Education (majors in Administration and Supervision, and Technical and Vocational Industrial Education)

Education Specialist (Ed.S.)
  Curriculum and Instruction
  Educational Administration and Supervision
  School Psychology

Doctoral Programs (Ed.D.)
  Adult Education and Human Resource Development
  Curriculum and Instruction
  Educational Administration and Supervision
  Exceptional Student Education
  Higher Education

College of Engineering
Master of Science in:
  Civil Engineering
  Computer Engineering
  Construction Management
  Electrical Engineering
  Engineering Management
  Industrial Engineering
  Mechanical Engineering

College of Health and Urban Affairs
Master of Science in:
  Criminal Justice
  Dietetics and Nutrition
  Medical Laboratory Sciences
  Occupational Therapy
  Master of Public Health
  Master of Social Work

School of Journalism and Mass Communication
Master of Science in Mass Communication

For more information, call the Office of Adult and Student Information Services (OASIS) at (305) 919-5669; or the appropriate college or school.
Florida International University encourages applications from qualified applicants without regard to sex, physical handicap, or cultural, racial, religious or ethnic background or association.

Application Process
Students interested in applying can do so via the following methods:

Florida International University
Application for Graduate Admission
FIU uses a common institutional application form for all graduate programs. This application can be requested from the University at University Park, Charles E. Perry Building, Room 140, Miami, Florida 33199 (305) 348-2363.

Online Application
Students with Internet access can apply online by visiting FIU’s website at www.fiu.edu/orgs/admiss for applications and instructions.

All credentials and documents submitted to the Office of Admissions become the property of Florida International University. Originals will not be returned to the applicant or forwarded to another institution. A $20.00 non-refundable application fee (U.S. Dollars) made payable to Florida International University must accompany all forms of application.

Applicants to a graduate program of the University must meet the minimum standards set forth by the Florida Board of Regents (BOR), the University, and when applicable, additional requirements set by each department for admission to a graduate program. Applicants must check the individual departmental requirements.

A student seeking admission into a graduate program of the University must have a bachelor’s degree or equivalent from a regionally accredited institution or, in the case of foreign students, an institution recognized as an institution of higher learning. The applicant must submit official copies of all transcripts. In most cases, an applicant must, at a minimum, present either a ‘B’ average in upper level work, or a combined score (on verbal and quantitative) of 1000 on the Graduate Record Exam (GRE) or a score of 500 on the Graduate Management Admission Test (GMAT) when applicable and required by the individual department, or a graduate degree.

All graduate applicants, regardless of previous grade point average or degrees, are required to submit the appropriate test scores.

An applicant who fails to meet these criteria may appeal the admission decision and be considered under the BOR’s Exception Policy. This policy allows up to 10 percent of the graduate students admitted for a particular academic year as exceptions to the above criteria.

Foreign graduate applicants are accepted subject to space and fiscal limitations. In addition to the above University admission requirements, foreign applicants must be academically eligible for further study in their own country and must demonstrate proficiency in the English language by presenting a minimum score of 550 or higher paper-based and a minimum score of 213 computer-based on the Test of English as a Foreign Language (TOEFL), or a minimum of 3 on the Advanced Placement International English Language Examination (APIEL). However, some departments may require a higher TOEFL. Applicants who hold an undergraduate or graduate degree from an institution within the United States or other English speaking countries are not required to submit TOEFL or APIEL.

The applicant must check the individual departmental requirements. For TOEFL or APIEL information contact: TOEFL Program, P. O. Box 6151, Princeton, New Jersey 08541, U.S.A.

All credentials and documents submitted to the Office of Admissions become the property of Florida International University. Originals will not be returned to the applicant or forwarded to another institution.

Readmission
An admitted degree-seeking student who has not enrolled in any course at the University for one full academic year or more is eligible for readmission. The student must meet the University and program regulations in effect at the time of readmission. Students must contact the Office of Admissions to apply for readmission.

Priority Consideration
Due to the additional processing time needed for International Students, plan to submit your application and supporting documents as early as possible. We recommend no later than February 1st if you are applying for Summer semester, April 1st if you are applying for Fall semester, and September 1st if you are applying for Spring semester.

If the application and documents are not received by the appropriate time, the application for admission will be considered for the following term.

Transfer of Graduate Credit from Other Institutions
Doctoral programs may accept a maximum of 36 semester hours earned elsewhere as a graduate degree-seeking student. A maximum of six semester hours of graduate credit earned from another institution in a non-degree seeking status may be transferred. A maximum of six thesis credit hours may be transferred to a doctoral program only if they are part of an earned degree.

Masters programs may accept a maximum of six semester hours of graduate credit earned from another institution beyond a bachelor’s degree.

Acceptance of transfer credits for a course is dependent upon the following provisions:

a. the student received a grade of 3.0 or better on a 4.0 scale
b. the course was taken at an accredited institution
c. the course was relevant, as judged by the admissions committee of the department or program, to the graduate program in which the student is accepted
d. the course is listed on an official transcript received by the Office of Admissions

International Admissions
Graduate Admission Standards and Procedures
International student applicants must meet the admission requirements of the University as described in the previous
sections and comply with the following:

Academic Records
Official transcripts, diplomas and/or certificates must be sent directly from each previous institution to the Office of Admissions. Documents in a language other than English must be translated by an official translation agency. Notarized translations are not acceptable.

Declaration and Certification of Finances
Upon receipt of the application for admission, the Declaration and Certification of Finances will be mailed to the applicant. It must be completed and returned to the Office of Admissions. A Certificate of Eligibility (Form I-20A) will be issued once the applicant has been found admissible to the University.

The University is required by immigration authorities to check carefully the financial resources of each applicant prior to issuing the Form I-20A. Therefore, it is important that applicants are aware of the cost of attending the University and have the necessary support funds for the period of enrollment. Applicants should refer to the Annual Estimate of Cost Chart.

The total funds available for the student for the first or second academic year, or both, must equal the total estimate of institutional costs and living expenses. All items in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing. This document must be received by the Office of Admissions two months prior to the anticipated entry date.

Refer to the Annual Estimate of Cost table for more information. A married student should plan on an additional $5,000 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than $3,000 for each child.

Medical Insurance
The State of Florida requires that all international students maintain health insurance coverage to help defray the costs in case of catastrophic medical emergency. The policy must provide specific levels of coverage which have been established to ensure that the policy is adequate to provide for costs at U.S. hospitals, usually much higher than costs in many other parts of the world. In addition, a policy must have a claims agent in the United States who may be contacted by medical providers and who facilitates prompt payment of claims. The University has approved a plan which meets the state requirements and which meets the needs of most students; however, a student may select alternate coverage provided it meets the state requirements for minimal coverage. A copy of these requirements is available from the Office of International Students and Scholar Services. Students are advised not to purchase insurance policies prior to arrival without verifying that the policies meet FIU/SUS requirements. Compliance with the insurance regulation is required prior to registration.

Required Entrance Tests
Graduate applicants are required to take either the GRE or the GMAT. For information on the tests, applicants must contact the Educational Testing Service, Princeton, New Jersey 08540, U.S.A. Information about test center locations may also be obtained at the American Embassy in the applicant's home country.

Tuition
An international student is considered a non-resident and is assessed non-resident fees. Immigration regulations require an international student to attend school at least two semesters within an academic year. A graduate student is required to take a minimum of nine semester hours per term. Please refer to the section on Student Fees and Student Accounts for more information.

Full-Time Enrollment
Non-immigrant alien students in F-1 visa status are required by United States immigration regulations to be enrolled full-time, except for the Summer Terms, and to make satisfactory progress toward the degree program in each term; otherwise the student's immigration status may be jeopardized. Full-time graduate enrollment is defined as enrollment every term for a minimum of nine semester hours.

The laws and regulations of the United States Department of Justice, Immigration and Naturalization Service state:

It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States laws under Section 101(a)(15)(F)(i) of the Immigration and Nationality Act.

Granting official Extension of Stay is dependent upon the student's achieving normal academic progress toward the degree requirements.

Employment
The legal regulations governing F-1 student employment are complex, and advisors are available in the Office of International Students and Scholar Services to explain these regulations. In general, however, employment is available only to students who maintain their legal status in the U.S. and is regulated under three categories:

a) on-campus employment: F-1 students may be employed on the FIU campus for a maximum of 20 hours per week during fall and spring semesters while school is in session, and full time during holidays, vacations, and summer. On-campus employment includes teaching and research assistantships for graduate students and hourly part time work. Students must contact individual campus departments to inquire about employment opportunities.

b) off-campus employment: F-1 students may request off-campus employment under very limited conditions and only after maintaining F-1 status for at least one full academic year. Off-campus employment opportunities are not readily available, and students should not rely on off-campus employment as a source of income to finance their studies.

c) Practical training: F-1 students may request practical training employment to accept jobs related to their studies. Students usually pursue practical training employment after completion of degree requirements, although in some cases practical training may be authorized prior to completion of studies. Since practical training employment is limited to one year of full-time employment, students cannot rely on it as a source of income to finance their studies.

Note: An international student will not be granted admission to the University until all academic and non-academic requirements have been met. Under no circumstances should a student come to the University without having received the official Letter of Admission and the I-20A Form.

All correspondence and document submissions should be directed to: Office of Admissions, Florida International University, P.O. Box (Charles E. Perry building) 140, University Park, Miami, Florida 33199 U.S.A.
Credit For Non-College Learning
Graduate credit will not be awarded for life experiences.

In cases where a student’s learning experience would appear to have been sufficient to develop the understanding and skills associated with a course that would otherwise be included in his or her graduate program of study, he or she will be allowed to register for Independent Study credits and demonstrate competency through development of an appropriate project acceptable to the faculty member who represents that specific area of specialization.

Not more than 10 semester hours of a 30 semester hour master’s degree, nor 15 semester hours of a 60 semester hour master’s degree, may be so earned. A student wishing to have this policy waived, wholly or in part, may petition the Dean of the academic unit to which he or she has been admitted for special consideration, and final responsibility for a decision will rest with the Dean.

Traveling Scholar Program
The University participates in a traveling scholar program which enables a graduate student to take advantage of special resources, special course offerings, research opportunities, unique laboratories and library collections available on another campus but not available on his or her own campus. Further information may be obtained from the Dean of the graduate program in which the student is enrolled.

Student Right-to-Know Safety and Security Act
Under the Student Right-to-Know and Campus Security Act, Florida International University will, upon request, make available to students and potential students the completion or graduation rates of certificate or full-time degree-seeking students for a one-year period. Also available, upon request, are University policies regarding a) procedures for reporting criminal actions or other emergencies, b) access to campus facilities, c) campus law enforcement, d) crime prevention programs, e) statistics concerning arrests and the occurrence on campus of certain criminal offenses, f) criminal activity of off-campus student organizations, and the use, possession, and sale of illegal drugs or alcohol.

Annual Estimate of Costs for Graduate International Students

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Student (18 semester hrs)</td>
<td></td>
</tr>
<tr>
<td>Tuition and Fees¹</td>
<td>$9,264</td>
</tr>
<tr>
<td>Maintenance²</td>
<td>$7,960</td>
</tr>
<tr>
<td>Books &amp; Supplies</td>
<td>$678</td>
</tr>
<tr>
<td>Medical Supplies</td>
<td>$576</td>
</tr>
<tr>
<td>Total</td>
<td>$18,478</td>
</tr>
</tbody>
</table>

¹Tuition and fees are subject to change. Fees include the Student Health Fee ($44 per semester) and the Athletic Fee ($10.00 per semester). Amounts shown reflect 9 semester hours of graduate during Fall and Spring terms only.
²Maintenance is estimated at $884.00 per month to cover room, board, clothing, transportation, and incidental costs. This cost is for nine months.
³All international students are required to carry medical insurance.
Office of the Registrar

The Office of the Registrar is responsible for directing the University’s registration activities, and establishing, maintaining, and releasing students’ academic records. The office is also responsible for Space and Scheduling, Enrollment Certification, Veterans Affairs, Graduation, and the Student Academic Support System (SASS). The office also produces the schedule of classes and the University catalogs.

Staff in the Office of the Registrar are responsible for assisting students, faculty, other administrative offices, and the general public; to holding safe and preserving the confidentiality of the students’ records; and ensuring the integrity of the University’s academic policies and regulations.

The University Park office is located in PC 130, 348-2320, the North Campus office is located in ACI-100, 919-5750, and the Broward Programs at Broward Community College, Central Campus, (954) 236-1500 and University Tower, (954) 335-5257.

Classification of Students

The University classifies students as follows:

Degree-Seeking Students

This category includes students who have been admitted to a degree program, but have not completed the requirements for the degree.

Graduate - Students admitted to a graduate program.

Post Graduate - Students admitted to a doctoral program.

Non-Degree Seeking Students

These students may be either affiliated or unaffiliated in their status. Unaffiliated students are limited to taking one semester of courses at the University. Affiliated students must be approved by the appropriate College or School and must meet its specific requirements. Under no circumstances may more than 15 hours, taken as a non-degree seeking student, be applied toward graduation requirements at the University, if the student changes from non-degree seeking to degree-seeking status.

The following regulations apply to non-degree seeking students:

1. Such students are not required to meet the usual admission requirements and are not officially admitted as regular students. Enrollment as a non-degree seeking student does not imply a right for future admission as a regular, degree-seeking student. Credit earned will not be counted toward a degree at the University unless such students subsequently apply for regular admission and are accepted as undergraduate or graduate students.

2. Registration is permitted on a space-available basis and is determined at the time of registration. Non-degree seeking students may not register during the official registration week for degree-seeking students.

3. No more than 12 graduate level semester hours earned as a non-degree seeking student may be counted toward a degree. The appropriate Dean must approve the acceptance of such credit.

4. Non-degree seeking students will not be allowed to register for more than one term without obtaining admission to a degree program at the University, or obtaining admission into a formal certificate program, or acquiring affiliated status from the department in which they are registering.

5. Applicants denied admission to the University will not be allowed to register as non-degree seeking students for a period of one year without obtaining admission into a formal Certificate Program or obtaining affiliated status from the appropriate academic department.

6. Immigration regulations prevent most foreign nationals from enrolling without being admitted into a formal degree or certificate program, depending on the visa type. Therefore, international students will not be permitted to enroll as non-degree seeking students.

Affiliated Students

Students applying for affiliated status as non-degree seeking students must be approved by the appropriate Dean’s Office in accordance with criteria established by that College or School’s Faculty Curriculum Committee.

Certificate Students

This category includes students who have been accepted into a specific certificate program by the academic department responsible for that program. Certificate programs are subject to all university regulations.

Academic Degree Requirements

Master’s Degree

The University will confer the master’s degree when the following conditions have been met:

1. Recommendation of the faculty of the College or School awarding the degree.

2. Certification by the Dean of the College or the School concerned that all requirements of the degree being sought have been completed.

3. Earned an overall average GPA of 3.0 in all courses.

4. Met the grade requirements for major, core courses, and course sequences established by the appropriate College or School.

Doctoral Degree

The University will confer the doctoral degree when the following conditions have been met:

1. Recommendation of the faculty of the College or School awarding the degree.

2. Completion of the residency and time limitation requirements.


4. Certification to the Registrar by the Dean of Graduate Studies that all academic requirements have been met.

Academic Definitions

Program and Course Regulations

Credit Hour: The term credit hour as used refers to one hour of classwork or the equivalent each week for an entire academic term.

Major: An integral part of the bachelor’s and master’s degree is a major concentration of coursework in an approved academic discipline or area. The exact course and credit requirements and prerequisites for each major are outlined in the departmental program areas in the catalog.

Electives: Students may select courses from any academic area to complement their area or areas of study or to meet their interests in order to fulfill the credit hour requirements for the master’s degree. Prerequisite course requirements should be considered in selecting elective courses. Students should refer to their academic program requirements concerning electives.
Certificate Programs
Students who have completed an approved certificate program will have an appropriate notation placed on their transcript.

College/Major Classification
Graduate students are classified according to the college or school and major of their degree program.

Full-time course load: Graduate, nine semester hours.

Change of College/School or Major
A fully admitted graduate student can change majors, provided he or she meets the entrance requirements of the new program, by submitting a Request for Change of College/School or Major Form. The form and instructions are available in the Office of the Registrar. The student is subject to the program requirements in effect at the time of the change of major.

Registration
The following registration information is subject to change and students must verify the dates with the Office of the Registrar, PC 130, University Park; or ACI-100, North Campus; or at the Broward Program, BCC Central Campus, (954) 236-1500 and University Tower, (954) 335-5257.

All students, degree and non-degree seeking, registering for more that 18 credit hours during one semester must obtain the approval and the signature of the Dean of their College or School.

Registration for courses is as follows:

Official Registration is held during the preceding semester (check the Academic Calendar for the dates) and ends one week later. Degree-seeking students are given an appointment day and time based on their classification, GPA, and credit hours completed. Students may also add/drop at this time.

Open Registration is held following Official Registration. There is no appointment day and time and registration is on a first-come, first-serve basis. All students who have not yet registered are encouraged to do so at this time. Students who have already registered may also add or drop courses during this period.

Telephone Registration
All students are able to retrieve their grades, registration appointment time and day; classroom assignments; registration holds (if any) and register/drop/add courses using a touch tone telephone. (305) 348-1500, the World Wide Web (http://sis.fiu.edu), or the on-campus kiosks. Students must obtain their personal identification (PIN) in order to utilize these systems.

Immunization
To register for courses, students, under the age of 40, must provide the University Health Care and Wellness Center, University Park; HM 110, North Campus, with documentation of immunization against measles and rubella. Students should contact the Health Care and Wellness Center for more information at (305) 348-2401 or (305) 919-5620.

Late Registration Fee
Any student, degree-seeking or non-degree seeking, who initiates registration after the registration deadline is assessed a $100.00 late registration fee. Students may initiate late registration during the first week of classes.

Dropping and Adding Courses
The Official Drop/Add period runs throughout the first week of classes (check the Academic Calendar for specific dates). During this period a student may drop or add courses without financial penalty or initiate registration with financial penalty (the late registration fee). Students may also drop courses or withdraw from the University with no record of enrollment and without a tuition fee liability. Students may submit a drop/add form to the Office of the Registrar or use the Telephone Registration System, the World Wide Web, or the on-campus kiosks to officially drop a course. If the tuition fee has already been paid, a refund will be issued by the Cashier’s Office to the local address on file.

Late Adds
Students may add courses with appropriate authorization and signatures until the end of the third week of classes. No course can be added after this deadline.

Late Drops
Courses officially dropped after the Drop/Add period and through the eighth week of the term (summer terms have different deadlines. Check the Academic Calendar for specific dates) are recorded on the student’s transcript with a symbol of ‘DR’ (dropped). The student is financially liable for all dropped courses. Students must drop courses using the telephone system (305) 348-1500, the World Wide Web (http://sis.fiu.edu), the on-campus kiosks, or in person at the Office of the Registrar. Non-attendance or non-payment of courses will not constitute a drop.

A student may appeal the deadline for a late drop by submitting the Appeal to Drop/Withdraw Without Refund form. A drop after the deadline will be approved only in cases where circumstances beyond the student’s control make it impossible for the student to continue. The student must provide appropriate documentation. Upon approval of the appeal, the course instructor will designate whether the student was passing or failing the course at the time of the appeal to drop form was submitted. A ‘DP’ grade indicates the student dropped the class with a passing grade. A ‘DF’ grade indicates the student dropped the class with a failing grade. The ‘DF’ grade is calculated in the student’s term and cumulative GPA.

The deadline to submit appeals is one year after the end of the term in which the course was taken.

Withdrawal from the University
A currently registered student can withdraw from the university only during the first eight weeks of the semester. In the Summer semester, withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be completed and submitted to the Office of the Registrar. Non-attendance or non-payment of courses will not constitute a withdrawal. (Refer to the Academic Calendar for the deadline dates.)

The transcript of a student who withdraws before or during the first week of classes will contain no record of enrollment and no tuition fee will be assessed. If the tuition has been paid, a refund will be issued by the Cashier’s Office to the local address on file.

A student who withdraws after the first week of classes, or a college withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund will be issued.

The transcript of a student who officially withdraws after the Drop/Add period and before the end of the eleventh week of the term will receive a ‘WT’ for each course.

The transcript of a student who stops attending the university without officially withdrawing from the University will receive an ‘F’ grade for each course.
A student may appeal the deadline for a late withdrawal (from all courses) by submitting the Appeal to Drop/Add Period and for which a Letter Grade, a ‘DF’, or a ‘WF’ is received are calculated in the GPA.

Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>P</td>
<td>Satisfactory (Pass)</td>
</tr>
<tr>
<td>IN</td>
<td>Incomplete</td>
</tr>
<tr>
<td>WI</td>
<td>Withdraw from University</td>
</tr>
<tr>
<td>WP</td>
<td>Withdraw from University after deadline with passing grade</td>
</tr>
<tr>
<td>WF</td>
<td>Withdraw from University after deadline with failing grade</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
</tr>
<tr>
<td>DR</td>
<td>Dropped Course</td>
</tr>
<tr>
<td>DP</td>
<td>Dropped after deadline with passing grade</td>
</tr>
<tr>
<td>DF</td>
<td>Dropped after deadline with failing grade</td>
</tr>
<tr>
<td>NR</td>
<td>Grade Not Reported or Invalid</td>
</tr>
<tr>
<td>EM</td>
<td>Examination</td>
</tr>
</tbody>
</table>

1IN is only a temporary symbol. It will revert to the default grade after two consecutive terms.
2NR is only a temporary symbol. It will default to an ‘F’ after two terms if it is not changed by the instructor.

Note: All courses for which a student is officially registered at the end of the Drop/Add Period and for which a Letter Grade, a ‘DF’, or a ‘WF’ is received are calculated in the GPA.

Grading Options

The Colleges and the Schools make the determination of the grading option of each course. A course may be offered for a letter grade as listed above or Pass/Fail; or for an optional grade in which the student has a choice of either receiving a letter grade or pass/fail; or the student may choose to audit a course and an ‘AU’ grade will be recorded on the student’s record. The grading option must be indicated at the time of registration. The grading option cannot be changed after the first week of classes. There are no exceptions to this deadline.

To register for an audit, the student must obtain the permission and signature of the instructor of the course audited. Once the course is registered for as “Audit”, the grading option cannot be changed.

Incomplete Grade

An incomplete grade is a temporary symbol given at the discretion of the instructor for work not completed because of serious interruption not caused by the student’s own negligence. An incomplete must be made up as quickly as possible but no later than two semesters or it will automatically default to the grade that the student earned in the course. There is no extension of the two semester deadline. The student must not register again for the course to make up the incomplete.

Students who receive an incomplete grade and have applied for graduation at the end of the term, must complete the incomplete by the end of the fourth week of the following term.

Forgiveness Policy

A forgiveness policy is a method by which students may repeat a limited number of courses to improve their grade point average (GPA). Only the grade received on the last repeat is used in the GPA calculation. Under the University’s forgiveness policy, students must file a Repeated Course Form with the Office of the Registrar. There is no time limit on the use of the forgiveness policy for grades; however, the forgiveness policy cannot be used once a degree has been posted. All courses taken with the grades earned will be recorded on the student’s transcript. The repeated course form will not be processed if the first or repeated grade received is ‘DR’, ‘DP’, ‘IF’, ‘WI’, ‘WP’, ‘AU’, ‘NR’, or ‘EM’. Repeated courses will be appropriately designated (T: attempted; R: last repeat).

Graduate students may repeat no more than two courses under this rule with no course being repeated more than once. The course shall be repeated on a letter grade basis. Only the grade and credit received in the second attempt shall be counted in computing the overall GPA. However, the original grade will remain posted on the student’s permanent record, but will not be used in computing the overall GPA.

A course taken on a letter grade basis must be repeated on the same basis. Students will not be allowed additional credit or quality points for a repeated course unless the course is specifically designated as repeatable (independent study, studio courses, etc.). Students not using the forgiveness policy may still repeat a course. All attempts will apply to computation of the GPA but credit for one attempt will apply toward graduation. Students must check with the appropriate academic department to determine whether there are additional restrictions on repeating courses.

Departmental Credit by Examination

Departmental credit by examination is available for certain courses. A student who has already gained knowledge of a subject offered at the university and wishes to take an examination in lieu of taking the course should discuss the matter with his or her academic advisor and with the department offering the course.

Awarding departmental credit by examination is the prerogative of each academic unit. To receive credit by examination, a student must be a regular degree-seeking student. Once the student is awarded the departmental credit by examination, an ‘EM’ grade will be recorded on the transcript.

Change or Correction of Grades

Once submitted, end-of-semester grades (except Incompletes and NR’s, which default at the end of two terms) are final. They are subject to change only through a Change of Grade Form to correct an error in computation or transcribing, or where part of the student’s work has been unintentionally overlooked.
Final Examinations
Final examinations will be given during the week following the last day of classes each semester. The Summer semesters do not have final examination periods and course examinations may be given at the discretion of the faculty member teaching the course.

Final Grades
Final grades are available over the Telephone Registration System (305-348-1500), the World Wide Web (http://sis.fiu.edu), or through the on-campus kiosks.

Application for Graduation
Students who plan to graduate are required to submit to the Office of the Registrar an Application for Graduation form. This form must be submitted before the last day of classes of the academic semester prior to graduation. Students turning in the Application for Graduation after the deadline will graduate the following semester. There is no charge for applying for graduation.

Students who do not graduate must re-apply for graduation and complete the remaining requirements needed for graduation.

Academic Warning, Probation, and Dismissal

Warning
A graduate student whose cumulative GPA falls below a 3.0 (graduate) will be placed on warning, indicating academic difficulty.

Probation
A graduate student on warning whose cumulative GPA falls below 3.0 (graduate) will be placed on probation, indicating serious academic difficulty. The College/School of the student on probation may indicate the conditions which must be met in order to continue enrollment.

Dismissal
A graduate student on probation whose cumulative and semester GPA’s fall below a 3.0 will be automatically dismissed from his or her program and the University. A graduate student will not be dismissed prior to attempting a minimum of 12 hours of coursework as a graduate student. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the College or the School in which the student is admitted. The dismissal from the University is for a minimum of one year. After one year, the student may apply for readmission (see Readmission) to the University in the same or a different program, or register as a non-degree seeking student.

Dismissed students applying for admission or registering as non-degree seeking students are placed on academic probation.

Student Records
Florida International University assures the confidentiality of student educational records in accordance with State University System rules, state, and federal laws including the Family Educational Rights and Privacy Act of 1974, as amended. Student academic records are maintained in the Office of the Registrar and in the academic department of the student’s major. As a rule, all currently enrolled and former students have the right to review their records to determine their content and accuracy. Parents of dependent students, as defined by the Internal Revenue Code, and who give evidence of the dependent status, have the same rights. For the cost of photocopying, students may generally have copies of any documents in their file, except for other institutions’ transcripts.

Release of Student Information from Education Records
The disclosure or publication of student information is governed by policies of Florida International University and the Board of Regents of the State University System of Florida within the framework of State and Federal Laws, including the Family Educational Rights and Privacy Act of 1974, as amended.

A student’s consent is required for the disclosure or publication of any information which is a) personally identifiable and b) a part of the educational record. However, certain exceptions to that generality, both in types of information which can be disclosed and in access to that information, are allowed within the regulations of the Family Educational Rights and Privacy Act. The following persons and organizations may have access to personally identifiable information without a student’s prior consent:

A. Faculty, administrators, staff and consultants employed by the University or the Board of Regents whose work involves:

1. Performance of administrative tasks which relate to students;

2. Performance of supervisory or instructional tasks which relate to students; or

3. Performance of services which benefit students.

A student’s prior consent is not required for disclosure of portions of the educational record defined by the institution as Directory Information. The following Directory Information may be released by the University:

1. Name, local and permanent address and telephone number(s);
2. Date and place of birth, and sex;
3. Classification and major and minor fields of study;
4. Participation in officially recognized activities and sports;
5. Weight and height of members of athletic teams;
6. Dates of attendance, degrees and awards received;
7. The most recent previous educational agency or institution attended by the student; and
8. Photographic image.

The information above, designated by the University as Directory Information, may be released or published by the University without a student’s prior written consent unless exception is made in writing by the student or the parents of a dependent student.

In order to prevent access to or release of Directory Information, students or the parents of dependent students, must notify the Registrar (PC 130), in writing prior to the first class meeting day of the semester. Access to, or release of Directory Information will be withheld until further written instruction is received from a student, or the parents of a dependent student.

Students have a right to challenge the accuracy of their educational records and may file written requests to amend these records. The Office of the Registrar (PC 130) may be contacted for further information regarding the procedures to follow for questions or problems.

For complete information regarding the policies outlined above, please contact:

University Registrar
Florida International University
University Park - PC 130 Miami,
Florida 33199
e-mail: register@fiu.edu

Student Social Security Numbers
FIU expects all students to have a valid social security number. Enrolled students who do not have one will have
three months to provide the Registrar’s Office with proof of a valid social security number. Foreign students are encouraged to apply for a Social Security Number if they plan on working on campus. However, it is not required for enrollment purposes.

Transcripts

The transcript is the complete student record of courses taken at the University, in addition to the number of transfer credits accepted. The GPA is calculated for all courses taken at the University after Fall Term 1975. Once a baccalaureate, master’s, or doctorate degree is earned, the GPA recalculation starts again.

Students must request their transcript in writing. There is a 48 hour processing period. The transcript will not be released if the student has a University financial liability and/or a defaulted student loan. There is a $5.00 charge per transcript.

Class Attendance

The University does not have an attendance policy. However, individual faculty may establish attendance criteria in classes where deemed necessary. Academic units may establish their own attendance policies with the approval of the Provost.

Policy Statement with Reference to Religious Holy Days

A faculty member who wishes to observe a religious holy day shall make arrangements to have another instructor conduct the class in his or her absence, if possible, or shall reschedule the class.

Because there are some classes and other functions where attendance may be considered essential, the following policy is in effect:
1. Each student shall, upon notifying his or her instructor, be excused from class to observe a religious holy day of his or her faith.
2. While the student will be held responsible for the material covered in his or her absence, each student shall be permitted a reasonable amount of time to make up any work missed.
3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.
4. Professors and University administrators shall not arbitrarily penalize students who are absent from academic or social activities because of religious observances.

Veterans Information

The Office of Veterans Affairs assists all veterans and their dependents who wish to receive VA educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs. The VA Office is located in PC 138, University Park; and in ACI-100, North Campus.

Veterans who are planning to attend the University should contact the Office of Veterans Affairs two months prior to the date of entry. Such time is required to expedite the processing of paperwork for educational allowances from the Veterans Administration.

Training Status

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full</td>
<td>9</td>
</tr>
<tr>
<td>3/4</td>
<td>7</td>
</tr>
<tr>
<td>1/2</td>
<td>5</td>
</tr>
<tr>
<td>Less</td>
<td>4</td>
</tr>
</tbody>
</table>

Rate of Payment

For rate of monthly payment of educational allowances for veterans and dependents, please contact the Office of Veterans Affairs.

For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs at University Park, PC 138, 348-2838.

Enrollment Certification

The Office of the Registrar is responsible for certification of students’ enrollment. Certifications cannot be processed if the student has a financial liability.

Enrollment Status - Graduate

Full time: 9 credits or more.
Half time: 6 - 8 credits.
Less than half time: 5 credits or less.

Enrollment status is for continuous enrollment for the semester in which the student is in attendance. Reduction of course load will reflect the student’s status. Contact the Office of the Registrar for further details.

Florida Residency Information - Florida Student Definition

For the purpose of assessing registration and tuition fees, a student shall be classified as a Florida or non-Florida Resident.

To qualify as a Florida Resident, the student must:
1. Be a U.S. Citizen, Resident Alien, parolee, Cuban National, Vietnamese Refugee, or other legal alien so designated by the U.S. Immigration and Naturalization Service.
2. Have established a legal residence in this State and have maintained that legal residence for 12 months immediately prior to the start of the term in which the student is seeking Florida resident classification. The student’s residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify).
3. Submit the following documentation (or in the case of a dependent student, the parent must submit documentation), prior to the last day of registration for the term for which resident status is sought:
   a. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which Florida resident status is sought). The following documents will be considered in determining legal residence:
      (1) Declaration of Domicile.
      (2) Proof of purchase of a home in Florida which the student occupies as his or her residence.
      (3) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment record).
   b. Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which resident status is sought):
      (1) Declaration of Domicile.
      (2) Florida Voter’s registration.
      (3) Florida Driver’s license.
      (4) Proof of real property ownership in Florida (e.g., deed, tax receipts).
      (5) Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.
      (6) Proof of membership in or affiliation with community or state
organizations or significant connections to the State.

(7) Proof of continuous presence in Florida during the period when not enrolled as a student.

(8) Proof of former domicile in Florida and maintenance of significant connections while absent.

(9) Proof of reliance upon Florida sources of support.

(10) Proof of domicile in Florida of family.

(11) Proof of admission to a licensed practicing profession in Florida.

(12) Proof of acceptance of permanent employment in Florida.

(13) Proof of graduation from high school located in Florida.

(14) Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual.

c. No contrary evidence establishing residence elsewhere.

d. Documentation of dependent/independent status (IRS return or affidavit).

A student can also qualify for Florida residency by one or more of the following criteria:

1. Become a legal resident and be married to a person who has been a legal resident for the required 12-month period, or,

2. Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent, or,

3. Be a member of the full-time instructional or administrative staff of a state public school, state community college or state university in Florida, a spouse or dependent, or,

4. Be a dependent and have lived five years with an adult relative who has established legal residence in Florida, or,

5. Be a former student at a public institution of higher education who was properly classified as a resident who re-establishes domiciliary status and re-enrolls within a period of 12 months, or,

6. Make a statement as to the length of residence in Florida and qualification under the above criteria.

Term Courses Are Offered

Listed next to certain courses in this catalog are the designations ‘F’, ‘S’, and ‘SS’. These designations indicate that the academic department normally offers these courses during the ‘F’ (Fall), ‘S’ (Spring), ‘SS’ (Summer) terms. Students should be aware that there are circumstances beyond the University’s control (low enrollments, financial constraints, or other extenuating situations) which may result in the courses not being offered as indicated. The University is not responsible for failure to offer a course as indicated.
Financial Aid

What is Financial Aid?
Financial aid is a source of financial support provided by various agencies (federal, state and local governments, universities, community organizations, and private corporations or individuals) to help students meet the cost of attending college. It includes gift-aid (grants and scholarships) and self-help (loans and student employment).

- Grants are awards based on financial need which do not have to be repaid.
- Scholarships are non-repayable awards based either on merit, special talent and/or financial need.
- Student loans are available to students and/or their parents at low interest rates (5 to 11%).
- Student employment allows students to earn money toward their education by working part time while attending school.

Applying for Assistance
Applications for financial assistance are available in January for the following academic year which begins in August. Financial Aid applications are not reviewed until ALL documents required to complete the file are received in the Financial Aid Office.

Students whose files are completed accurately by the priority deadline of March 1, 2000 will receive priority consideration for limited Federal, State and Institutional funds. Files completed after this deadline will be processed in order of completion date.

Admissions
To be eligible for most financial aid programs, students must be admitted to a degree program. However, students should not wait until they are admitted to apply for assistance. Students who enroll in qualified Certificate Programs are only eligible for student loans.

Summer Assistance
Student loans are the primary source of assistance for Summer enrollment. Request forms for Summer assistance are available after January 31, 2001.

Eligibility Criteria
To qualify for most need-based financial assistance, students must meet the following basic eligibility requirements:
- demonstrate financial need:
  - be a U.S. citizen or eligible non-citizen;
  - be registered with Selective Service, if required;
  - not be in default on a loan, or owe a repayment on Title IV aid received at any institution;
  - be enrolled at least half-time in an eligible program of studies;
  - maintain satisfactory academic progress.

Additional requirements may apply depending on the aid programs awarded.

Determining Financial Need
Financial need is defined as the difference between the estimated cost of attendance and the amount students and their families can reasonably be expected to contribute towards their educational expenses. Need analysis is a federally mandated formula which measures, in an equitable and systematic way, how much students and their families can afford towards their higher education. Income, assets (excluding their primary residence), family size, number of family members attending college, and other items are evaluated to give a complete assessment of a family's financial strength.

Awarding Procedures
Award decisions for new students who complete their financial aid application by the priority deadline will be issued by April 15, 2000.

A financial aid package may consist of a combination of grants, loans, and work funds. Other sources of assistance such as merit awards and private and institutional scholarships will be taken into consideration when preparing the award.

Sources of Assistance
The University participates in all Federal and State funded programs. Institutional assistance is available for students with academic promise and financial need.

Graduate Assistance
Graduate students pursuing a master's or doctoral degree may qualify for assistantships/fellowships and other awards offered through individual graduate academic units. To apply, contact the Dean's Office of your college or department. The Financial Aid Office makes a limited number of awards to graduate students who have demonstrated financial need through the Free Application for Federal Student Aid (FAFSA).

Financial Aid Services
Financial Aid Counseling
- A Financial Aid Administrator is available without an appointment to assist students with special problems, technical questions, exceptions, etc.
- Web and Voice System Access: Students may obtain information on the status of their application through the Financial Aid Office web page at www.fiu.edu or by calling the Financial Aid Office Voice Response System (VRS), 305-348-1500.
- E-Mail Access: Students may also communicate with the Financial Aid Office electronically at the following e-mail address: finaid@fiu.edu

For additional information and application materials contact the Financial Aid Office at University Park, PC 125, Miami, FL 33199
Student Fees and Student Accounts

Fees
Registration and tuition fees are established by the Board of Regents as required by the Florida Legislature. These fees are subject to change without notice. The currently authorized fees for academic year 2000-2001 are:

<table>
<thead>
<tr>
<th>Per Credit Hour Fees</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$74.72</td>
<td>$319.31</td>
</tr>
<tr>
<td>Graduate, Thesis</td>
<td>$151.19</td>
<td>$529.95</td>
</tr>
<tr>
<td>or Dissertation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Student Fees
- Athletic: $10.00 (Florida), $10.00 (Non-Florida)
- Health: $44.00 (Florida), $44.00 (Non-Florida)

Registration fees for course audits are the same as the above fees, except that no assessment will be made for the out-of-state portion.

A schedule of registration and tuition fees for all programs is published prior to each semester and can be obtained at the Office of the Registrar. Since fees often change in the fall semester the above fees should be used for information purposes only. The schedule of classes will contain the most accurate fee information.

Fee Waivers
Students using a fee waiver for part of the fee payment must pay their portion on or before the last day to pay fees. Students who are responsible for a portion of their fees in addition to the fee waiver will be required to pay their portion before the fee waiver is applied.

University and State employees using the State employee fee waiver to pay their fees must register on or after the day established in the official University calendar for State employee registration. The State Employee Fee Waiver pays up to six hours of tuition and fees per term. Summer sessions A, B, and C are considered one term. If the employee registers for more than six hours, they will be required to pay for the additional credit hours plus all per student related fees. A properly completed and approved waiver form must be presented at the Cashier’s Office by the date published for the last day to pay fees. Fee Waivers will be processed only for those courses shown on the approved fee waiver request form presented at the time of registration. A course over-ride card will not be accepted with the tuition waiver program. Only one fee waiver form per employee will be accepted each semester. The State employee fee waiver will not be accepted as payment for course registrations prior to the announced date for state employee registration. State Employee Fee Waivers do not cover Thesis, Dissertation, Internships, Directed Individual Study, Non Credit Courses, Sponsored Credit Programs, Certificate Programs, Field Experience, Practicum, closed courses, or courses taken for audit grades.

Senior citizens fee waivers are available to persons 60 years of age or older who meet the requirements of Florida residency as defined in this catalog. The fee waiver allows qualified individuals to attend credit classes on an audit basis. Senior citizens using the fee waiver must register during the first week of classes. Senior citizens using the fee waiver must pay the photo id fee during their first term in attendance.

Florida law requires that State employee fee waivers and senior citizen fee waivers be granted on a space available basis only; therefore, individuals using these waivers must comply with the procedures outlined in the schedule of classes for each semester.

Refunds will not be processed for employees who have registered and paid prior to the state employee registration day and wish to use the fee waiver.

Fee Payment
Fees may be paid at the Cashier’s Office at University Park, PC 115, or at North Campus ACI 140. Broward students may pay by mail or at the Cashier’s Office at University Park or North Campus. Night drop boxes outside the Cashier’s Offices are open 24 hours a day for fee payments by check or money order through the last day to pay fees. Payment is also accepted by mail. Mailed-in payments should be placed in the envelope included in the schedule of classes. The University is not responsible for cash left in the night drop or sent through the mail. Failure to pay fees by the established deadlines will cause all courses to be canceled. See Fee Liability below.

Late Registration Fee
Students who register after the established deadline for registration will be subject to $100 late registration fee.

Late Payment Fee
Students who pay fees after the established deadline for payments will be subject to a $100 late payment fee. If applicable, this fee may be assessed in addition to the late registration fee described in the preceding section.

Florida Prepaid Tuition Plan
Students
All students planning to register under the Florida Prepaid Tuition Plan must present their FPTP identification card to the Bursar’s Office, PC 115 on the University Park Campus or at the Cashier’s Office ACI 140, on the North Campus before the last day to pay fees. The portion of the student fees not covered by the plan must be paid by the student prior to the published last day to pay fees to avoid cancellation of classes.

Financial Aid Students
All financial aid recipients must come to the Cashier’s Office and pay the difference between their financial aid or scholarship awards less Federal Work Study and their final fee assessment. The student’s schedule will then be automatically validated. Acceptance of a financial aid package constitutes acceptance of the above validation process.

Fee Liability
Students are liable for all fees associated with all courses in which they are registered at the end of the drop/add period. The fee payment deadline is published in the official University calendar. If fees are not paid in full by the published dates, all courses will be canceled and any money paid will be lost.

Registration is not complete until all fees are paid in full.
Repeat Course Tuition Surcharge
Reinstatement
The 1997 Legislature passed House Bill 1545 mandates that undergraduate students pay additional charges for the third time a student either takes or attempts a college credit course. Any undergraduate course taken, beginning Fall 1997, and all courses taken after this date will be subject to the repeat surcharge. Attempted hours mean those hours dropped/withdrawn after the drop/add period or failed. Withdrawals, incompletes and dropped courses will be subject to the tuition surcharge, if they are fee-liable. All students are included regardless of type of residency. Undergraduate courses are 1000 to 4000 level courses.

Exceptions:
- Any course work taken prior to Fall 1997
- Credits earned through: cooperative education, military, waives, audits, individualized study, courses that are repeated as a requirement of a major (except courses repeated more than 2 times to increase GPA or meet minimum course grade requirements), courses intended to continue over multiple semesters
- Attempts taken at previous institutions prior to enrolling at FIU
- Any non fee-liable withdrawal or dropped course
- Graduate level courses (courses at 5000 level or above)
- Effective Summer 2000 Registration, Universities may make exceptions based on extenuating circumstances and financial hardships. Students wishing to appeal the repeat surcharge may complete an "Appeal of Repeat Course Surcharge" form, which may be obtained in the Registrar's Office, PC 130.

Excess Hours Charge
Senate Bill 2330 enacted by the Florida Legislature in 1995 and the 1997-98 General appropriations Act directs undergraduate students to pay an additional 50 percent tuition surcharge for credit hours in excess of 115% of the hours required in the student's degree program. For the purposes of calculating excess credit hours, "excess hours" are defined as those credit hours taken or attempted in excess of required hours for the Bachelor's degree. Attempted hours mean those hours dropped/withdrawn after the drop/add period or failed. Examples: The B.A. in Psychology requires 120 credit hours and the B.S. in Electrical Engineering requires 128 credit hours. Psychology majors would have to pay an excess hour charge for credit hours taken above 115% of 120 or 138 credit hours. Electrical Engineering majors would be required to pay an excess hour surcharge for credit hours taken above 115% of 128 or 147 credit hours.

First Time in College (FTIC)
FTIC students entering Fall 1996 and thereafter, will be required to pay increased matriculation fees for credit hours taken in excess of Bachelor degree requirements. This increased charge will be assessed for credit hours in excess of 115% of the hours required for the Bachelor's degree.

Transfer Students
Transfer students entering Fall, 1998, and thereafter, will be required to pay increased matriculation fees for credit hours taken in excess of Bachelor degree requirements. The increased charge will be assessed for credit hours in excess of 115% of the hours "remaining to be completed for the Bachelor's degree".

Exceptions:
- Students matriculating at FIU prior to Fall 1996
- Transfer students matriculating at FIU prior to Fall 1998
- Graduate students
- Military hours for active military personnel
- ROTC hours
- Personal Hardship/Disability
- Experiences that increase the value of the degree:
  - Internship hours
  - Hours to achieve dual major (NOT two degrees)
  - Study abroad hours
  - Student exchange program hours
  - Honors and related programs (e.g., LEADS scholars)
  - Hours earned through:
    - Advanced Placement
    - International Baccalaureate
    - College Level Examination Program and Dual Enrollment

Reinstatement of Classes
Appeals for reinstatement of registration for classes canceled for fiscal reasons must be filed in writing on the prescribed form with the Cashier's Office by the time specified on the cancellation notice. Each request will be evaluated by the Reinstatement Appeals Committee. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. The decision of the committee is final and all reinstatement activity, including fee payment, must be completed prior to the end of the fourth week of classes. All students whose registrations have been reinstated will be assessed a late payment fee. If the late registration fee is applicable it will also be assessed.

Application Fee
A non-refundable fee of $20 shall accompany each application for admission to the University.

Parking Rules and Regulations
All persons who park vehicles on the university's campuses shall register their vehicle(s) with the department of Parking and Traffic, obtain a decal or permit, and display the decal or permit, as prescribed by the Parking Rules and Regulations. The University assumes no liability for vehicles parked or operated on University property. The issuance of a decal or permit does not guarantee a place to park.

Parking and Traffic Access Fee
All currently enrolled students will pay a Parking and Traffic Access Fee each semester. The fee will appear on the Student Fee Schedule. This fee will be assessed as follows:
- Fall Semester $27.80 + tax
- Spring Semester $27.80 + tax
- Summer A, B, or C $25.40 + tax

Students must provide the following information to the Department of Parking and Traffic to obtain a parking decal: social security number, proof of current class registration, and current vehicle registration. All decals must be permanently affixed to the outside of the vehicle, either on the left side of the rear bumper or lower left corner, on the outside of the rear window. All decals are void until the expiration date indicated on the decal or permit. A duplicate hang tag will be issued upon request for an additional charge of $7.50 + tax. This hang tag is valid only for the vehicle under which it is registered. Hang tags are available to persons who have purchased an original decal for the current semester or year. The hang tags are for
Additionally owned vehicles and for situations where the original decal must be replaced due to an accident, paint job, etc.

**Housing**
All students in university housing complexes need to obtain a current semester housing sticker from the Department of Parking and Traffic. This sticker allows the vehicle to be parked legally in student housing areas. This sticker is valid for the current semester only. This housing sticker should be affixed to the left or right side of their current student decal.

**Decal Classifications**
- Faculty/Staff Decals
- Student Decals
- Housing Sticker
- Alumni Decal
- Duplicate Decals
- Duplicate student hang tag

**Disabled**
Any person who has been certified in accordance with Sections 320.054, 320.0848, or 320.0842, Florida Statutes, and has been issued a Disabled placard by the Department of Motor Vehicle Bureau shall obtain and display a university parking decal in the classification which would otherwise be appropriate.

**Permits**
1. The department of Parking and Traffic issues temporary permits to persons who require temporary parking authorization and who otherwise are required by these rules to obtain a decal. Permits must be applied for and are issued for a duration commensurate with its purposes. Permits may or may not include the payment of parking fees.
2. The circumstances under which a permit, rather than a decal shall be issued, include but are not limited to: the use of a temporary vehicle such as a rental car; parking on the university's campuses for attendance at conferences and meetings; and for visitors who are otherwise not required to obtain a decal.
3. Thirty (30), 60 and 90 day permits are available to persons otherwise required by these rules and regulations to obtain a decal.

**Towing and Impoundment**
The university may tow and impound any vehicle, which is found to be parked illegally or in violation of these rules.

**Rules and Regulations Pamphlets**
A copy of the University Parking Rules and Regulations is available at the department of Parking and Traffic located at University Park, Parking Garage One or North Campus, Wolfe University Center, Room 131. It is the responsibility of each student to become familiar and comply with the University's parking and traffic rules and regulations.

**Other Fees**
- **Library Fines**
  - Per book per library hour \( .25 \)
  - Maximum fine per book \( $5.00 \)
  - Lost book fine \( $51.15 \)
  - Note: These fees are subject to change as permitted by law. Additional fees may be added and special purpose fees may be assessed in some instances.

**Checks**
The University will accept personal checks for amounts due to the University. These checks must be in the exact amount due only. The Cashier's Office will not accept checks above the amount due, third party checks or checks for cash. State law requires that a service fee be assessed on a check returned unpaid by the bank for any reason. Service fees are based on the amount of the unpaid check. Checks for $0.01 - $50.00 are charged a $25.00 fee; $50.01 - $300.00, a $30.00 fee; $300.01 - $800.00, a $40.00 fee; and a fee of 5% of the amount of the check for all checks greater than $800.00. Checks returned by the bank can be redeemed only by cash, cashier's checks, or money orders. A personal check will not be accepted to replace a dishonored check.

Returned checks will be assigned to an agency for collection if not promptly paid. When an account has been assigned, the collection agency fee will be added to the University charges for collection at the current contract rate. Returned checks on student accounts will result in cancellation of classes and will require petition for reinstatement. See reinstatement of classes above.

The Cashier's Office will not accept a check on any student's account which has had two previous dishonored checks.

**Refunds**
Refunds will be processed and mailed to the address shown on the Registrar's files to all students whose fee accounts show an overpayment after the last day to pay fees. Students due a refund will not be required to submit a refund application to receive their refund, it will automatically be calculated. If there is an amount due to the university in the accounts receivable system, that amount will be deducted from any refund due.

Students who have completed registration and have paid all fees due and have completely withdrawn from the University prior to the end of the fourth week of classes are eligible for a refund of 25% of total fees paid.

Any student attending the University for the first time who completely withdraws from all of his/her classes is entitled to a prorated refund up to 60% of the semester. This only applies to first time students.

In the following exceptional circumstances, a full refund of total fees paid will be made upon presentation of the proper documentation:
- Death of a student or immediate family member (parent, spouse, child or sibling). Death certificate required.
- Involuntary call to military service. Copy of orders required.
- Illness of student of such severity or duration to preclude completion of courses. Confirmation by a physician required.

Processing of refunds will begin after the end of the last day to pay fees.

Appeals for tuition refunds must be submitted in writing to the Office of the Registrar within one year after the end of the term for which the refund is requested. There are no exceptions to this policy.

**Past Due Accounts**
Delinquent accounts are sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas.

The University is not able to grant credit or time payments for any fees. Financial aid is available to those qualifying through the Financial Aid Office. A limited number of short term loans are available to full time enrolled students who may experience problems in meeting fee payment due dates.

The University reserves the right to assign any past due account to an agency for collection. When an account has been assigned, the collection agency fee will be added to the University charges for collection at the current contract rate.
Deadlines
Students are reminded that deadlines are strictly enforced. The University is not able to grant credit or to extend the fee payment period beyond the time set in its official calendar. The University does not have the authority to waive late fees unless it has been determined that the University is primarily responsible for the delinquency or that extraordinary circumstances warrant such waiver. The University has no authority to extend deadlines for individual students beyond those set by the official calendar.
Academic Affairs

The Office of Academic Affairs oversees the planning and administration of the instructional programs of the Colleges and Schools of the University. Matters affecting faculty, curriculum, and the development of undergraduate and graduate degree programs fall within its purview. Consequently, both Undergraduate Studies and Graduate Studies report to the Office of Academic Affairs.

This office also supervises academic support programs, such as Information Resource Management, the Libraries, Instructional Media Services, Sponsored Research and Training, FAU/FIU Joint Center for Environmental and Urban Problems, Latin American and Caribbean Center, Institute for Judaic Studies, Institute for Public Policy and Citizenship Studies, The Art Museum, Planning and Institutional Research, Southeast Florida Center on Aging, and the Women’s Studies Center.

Responsible for all the academic units, the chief academic officer is the Provost and Executive Vice President for Academic Affairs. The Provost and Executive Vice President for Academic Affairs also serves as liaison to the Florida Board of Regents for academic matters. As a member of the University Executive Staff, the Provost and Executive Vice President leads in the overall academic planning and direction of the University.

(For detailed information on the University’s Academic Centers and Institutes, refer to the Centers and Institutes Section.)

Graduate Studies
Richard L. Campbell, Dean
Ruben D. Jaen, Associate Director

The Office of Graduate Studies is under the administration of the Dean of Graduate Studies.

The Graduate Dean is assisted by an Associate Director, who has responsibility for all requests for candidacy certification, assists with minority student recruitment and admission, and also assists the Dean of Graduate Studies in other matters.

The Office of Graduate Studies is responsible for the implementation of the Graduate Student Grievance Policy; the development of and compliance with University graduate policy, procedures and planning; graduate financial aid distribution; University client linkages for development support and productivity.

Academic Deans and Department chairs within academic units have the responsibility for detailed operations of all graduate programs.

The Graduate Dean works with the Graduate Council in the formulation of new graduate policies and procedures. The Graduate Council is a subcommittee of the Faculty Senate and consists of members who also represent their respective colleges/schools on the Council. The Graduate Council reviews curricula changes proposed by academic units and endorsed by the University’s Curriculum Committee.

Another committee in the Office of Graduate Studies is the Advisory Committee for Graduate Studies. This Committee makes recommendations to the Graduate Dean on the implementation of graduate policies and procedures on all programs that offer graduate degrees. The Dean of Graduate Studies serves as Chair of this Committee. Generally, the members on this Committee are assistant and associate deans who have responsibility for graduate education in their respective academic units.

The Human Research Committee is responsible for approval of the use of human subjects on projects and research conducted by University professors and students. The Committee makes recommendations for fostering University wide research productivity.

Graduate students seeking information on general graduate policies and procedures, or instructions on preparing and filing the thesis or dissertation, should contact the Office of Graduate Studies in PC 236, University Park, or call (305) 348-2455 for an appointment. Internet users are invited to visit our web site located at www.fiu.edu/~gradstud.

Information Resource Management (IRM)
Arthur S. Glotzer, Chief Information Officer and Vice Provost, Information Resource Management

All computing, telecommunications, library, and instructional media services on all Florida International University campuses are under the direction of the Vice Provost and Chief Information Officer. The five major units of Information Resources are:

Academic Research and Computing (ARC), the Southeast Regional Data Center (SERDAC), Network, Engineering, and Telecommunications (NET), the FIU Libraries, and Instructional Technology (IT).

Academic Research and Computing (ARC)

Academic Research and Computing (ARC) provides instructional and research computing support to the faculty and students from all FIU academic departments on all campuses. Services of interest to students include: introductory seminars and workshops on the most widely used equipment and software; use of e-mail, Internet and the Web; comprehensive documentation libraries, open popular application software packages, dial-up and open PC labs, a computer store in the Graham Center featuring educational discounts; assistance with remote access to University servers; and peer/professional consultation on various computer-related problems within limits defined by academic departments.

In addition to instructional computing support, the computer support team provides installation, deployment, and upgrade of all desktop applications.

Lab Use: Students are required to have a valid FIU picture ID card to use ARC labs. During the peak periods before midterm and final exams lab hours are extended to meet increased demand; nevertheless, users are advised to complete assignments early. Time limits may be imposed during periods of high demand. Ethical computing practices are enforced. For a recorded message with lab locations and current student lab hours, call 348-2174 for University Park and 919-5600 for North Campus. Please direct other University Park inquiries to 348-2568. For more detailed information, see our home page at: www.fiu.edu/~arc

Part-time Student Employment: Each semester, University Computer Services employs over 60 part-time student consultants. Although primarily responsible for maintaining a good working environment and flow of users through lab facilities, some consultants work in ARC User Services where they assist in desktop network integration and microcomputer support. They diagnose and resolve system and equipment malfunctions in departments
all across the University. Other students teach faculty, staff and peers to use software applications and computer resources. Exposure to a variety of hardware and software and direct training by ARC professional staff, provides excellent job experience. Students with better than average interpersonal and computer skills are invited to apply for employment at FIU.

Southeast Regional Data Center (SERDAC)
The State University System’s Southeast Regional Data Center provides primary academic computing services to Florida International University via an Ethernet network which connects student and faculty workstations to the Data Center’s Unix and the RS 6000 complex cluster services.

SERDAC’s computers allow convenient access to the Internet and currently provides Internet 2 access. Information on these services may be obtained by calling 348-2284.

Primary operations and dispatch services for faculty, student, and administrative printout are located in University Park, PC 504. Please call 348-2284 for information concerning this facility.

SERDAC offers personal computer/workstation maintenance to the University community. Currently, the SERDAC Maintenance Facility has been designated as a factory-authorized center for IBM, Dell, and Apple personal computers. Please call 348-2284 for information.

Telecommunications
The Network, Engineering, and Telecommunications (NET) is responsible for administering, planning, designing, operating, installing and maintaining of voice, video and data communications systems, equipment and networks that serve the University community. In addition, NET plays an integral part in the design and completion phases of the University’s major construction projects and renovations.

NET responsibility for voice communication systems includes planning, managing and developing the University’s telephone systems, including 24-hour Operator service, voice mail, feature customization, move/add/change orders and toll charge accounting. Through the data communications and network management services, NET maintains several intercampus data communications networks and operates the University’s modern pool for access to FIUnet and the Internet. These services provide users access to all networked University computing resources and gateways to statewide, national and international telecommunications networks. In addition to providing day-to-day repair and installation of data communications equipment and cabling, the Department supervises the design of communication systems for new construction and renovations at the University.

The Audio Visual Network group, as part of NET, is responsible for maintaining electronic classrooms, providing engineering services for distant learning, distributing equipment and planning/designing audiovisual services. The audiovisual group provides faculty and students with the ability to use computer access to enhance the teaching/learning experience.

Libraries
The University Libraries are housed in the Green Library (GL) at University Park, and in the Library building (LIB) on the North Campus. The total library collection comprises more than 1,150,000 volumes, in addition to substantial holdings of federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to more than 8,650 scholarly journals and other serials. The number of resources available electronically via the World Wide Web continues to increase.

A computerized catalog of library holdings provides a listing of materials in both FIU Libraries, other libraries in the State University System, and throughout the world. The bulk of the collection is housed in open stacks.

Classification of library resources is according to the Library of Congress system, except for some of the documents and special collections (e.g., U.S., Florida, and U.N. documents, archives, etc.) which are arranged by their own classification systems and have separate public catalogs.

The libraries are open when classes are in session and during vacation periods. For exact library hours, please call 348-2479, consult the posted schedules or LUIS—the library’s online catalog—or the library home page at www.fiu.edu/~library. Staff members are always available at the Public Service desks to assist students and faculty in their use of the library.

Consortium Library Privileges
Currently registered students, faculty, and staff may use the libraries of any other institution in the State University System. For access to libraries in the southeast Florida region, check at the circulation desk concerning SEFLIN library privileges.

A state-of-the-art system of inter-library loan provides links to libraries world wide.

Instructional Technology
Instructional Technology supports the faculty in the development and production of various forms of technology for instructional purposes.

Instructional Development Center (IDC)
The IDC provides training, facilities and personnel to support faculty in the development of web-based courses and materials. Workshops and on-campus training in the use of technology empower faculty to develop skills. (GL 120 at University Park (305) 348-3158).

Instructional Photography
Instructional Photography supports faculty by creating both film-based and digitized images which are used in web courses and the digital library. (GL 180 at University Park (305) 348-3158).

Video Broadcast/Production
Video Broadcast/Production provides facilities and personnel to support faculty in the broadcast and production of video. Broadcast services include live interactive classes across three campuses and special educational events to/from worldwide locations via satellite. Video services include design, edit, and production of video for instructional purposes, either in the studio or at remote locations. (GL 141 at University Park (305) 348-2830).

International Studies
Giselle De Bruno Jamison, Associate Director for International Studies
The Office of International Studies (OIS) is responsible for the development and coordination of international programs and activities at the University. OIS staff members work with students and faculty who are interested in participating in international exchange, study abroad programs, and other international academic opportunities. OIS assists with the development of agreements with foreign universities to extend the
range of opportunities for students and faculty. In addition, the office advises students and faculty on the availability of Fulbright Grants, and other international scholarship opportunities. OIS facilitates the University’s interaction with local and international interest groups, serves as a liaison with universities and visitors from abroad, and promotes the international mission of the university. For more information on the services offered by OIS located in DM 300B, call (305) 348-1913, email: debrunog@fiu.edu or www.fiu.edu/~intered

International Student Exchange Programs

International Student Exchange (ISE) Programs provide students with the opportunity to study abroad (during one or two semesters) at one of the various universities that have an agreement with Florida International University. Full credit is given for work satisfactorily completed during the exchange program - as long as it has been pre-approved by an advisor. Grades are not transferred. ISE offers the opportunity to live abroad, explore other languages and cultures, and become acquainted with new friends from all over the world. Students will be required to pay their normal FIU tuition, insurance, housing, and travel arrangements.

In order to participate in ISE, a student must be enrolled at FIU and have a 3.0 cumulative GPA. For further information, contact the Office of International Studies, University Park, DM 300, Miami, Florida 33199, (305) 348-1913. You can also email the office at debrunog@fiu.edu

Study/Travel Programs

During the Summer semester FIU offers a number of Study/Travel Abroad Programs in coordination with different academic units, the Office of International Studies, and University Outreach. These programs are under the direction of FIU faculty members who accompany the students abroad. Students may receive credit for these programs. Each year FIU offers different opportunities and a variety of countries. Some of the programs include: FIU in Spain, Shakespeare-16th Century and Beyond!, Creative Writing, FIU in France, FIU in Prague, Art Education, Amazon in Brazil, Haitian Institute, FIU in Greece, College of Business Abroad and many other programs. The Honors College also offers programs in Italy and Spain. For more information contact the Office of International Studies at (305) 348-1913, email debrunog@fiu.edu or www.fiu.edu/~intered

Institutional Research

Daniel Coleman, Vice Provost and Director
David Hall, Assistant Director
Marta Perez, Assistant Director

The Office of Institutional Research provides statistical information to support decision making processes within all academic and administrative units of Florida International University, the Board of Regents, and external agencies.

The Office of Institutional Research provides the official University statistics. This office publishes research reports that provide statistical information about the university on a regular basis. The Office of Institutional Research also provides information requested by the University community and external agencies on an ad hoc basis. The coordination and submission of surveys from external constituencies is also coordinated by this office. All questionnaires or surveys developed by faculty or staff which are designed to collect data about the operations of the University, students or employees must be coordinated through this office. For more information about this office and its services, call (305) 348-2731.

Sponsored Research and Training

Thomas A. Breslin, Vice President
Catherine F. Thurman, Director

The Division of Sponsored Research and Training serves the research and training needs of interested faculty by providing timely information on the availability of local, state, and federal program support. The attraction of these funds to the campus provides an opportunity to better serve the needs of the people of Florida through services not regularly funded by the Legislature.

Among the major goals of the Division of Sponsored Research and Training are the following: to help stimulate faculty and staff interest in research and training projects; to assist the faculty and staff in obtaining funds for research and training projects; and to provide technical assistance to faculty and staff who manage contract and grant programs for the University. For more information, contact 348-2494. The web page address is: www.dsr.fiu.edu

The Art Museum

Dahlia Morgan, Director
Regina Bailey, Associate Director

The Art Museum at Florida International University has served the South Florida community for over 20 years presenting exhibition and art lectures of local, national and international importance. Exhibitions include student shows, self-curated exhibitions from both the University’s collections and from institutions and organizations outside the University, and national traveling shows. The Art Museum is supported by the University community, local, state and federal agencies and Friends of the Art Museum.

The Art Museum serves Miami’s multi-cultural community year round, free of charge. The Museum is home to Coral Gables’ Metropolitan Museum and Art Center Collection, The Cintas Foundation of Contemporary Hispanic Art, a permanent collection of works by North and South American and Florida artists, and the site of the Martin Z. Margulies Sculpture Park. One of the world’s most important international outdoor sculpture collections includes works by Calder, De Kooning, Ricky, Nevelson, Serra, and other well-known artists.

The Art Museum provides a unique experience to a very broad audience including children, students, teachers, senior citizens, minorities and the disabled. Besides serving two campuses and two centers, its programs extend to surrounding counties outside of Dade including Broward, Palm Beach and Monroe Counties.

The Art Museum is accredited by the American Association of Museums and has been recognized for its excellence by the grants it has received, most recently the National Endowment for the Arts; The Institute for Museum and Library Services; The Florida Humanities Council; Miami-Dade County Cultural Affairs Council; Florida Department of State, Division of Cultural Affairs.

The Art Museum, which occupies a 5,000 square foot area on the University Park campus, opened with an internationally acclaimed exhibition, Contemporary Latin American Drawings, in April, 1977. Since then, many important exhibitions have been presented, including: Alberico Giacometti, Draftsman and Sculptor: Mira, Mira, Mira: Los Cubanos de Miami; Adolph Gottlieb: Paintings and Works on Paper; Marcel Duchamp:
Graduate studies in the making: 1920–1930; Imagenes Liricas: New Spanish Visions; Cuba–USA: The First Generation; Jose Bedia; Agustín Fernandez: A Retrospective; Miro/Noguchi; and most recently, Modernism and Abstraction: Treasures from the Smithsonian American Art Museum. The annual American Art Today series has featured contemporary artists exploring traditional themes including Still Life, The Figure in the Landscape, The portrait, Narrative Painting, The City Surface Tension, Clothing as Metaphor Images from Abroad and the Garden.

The Art Museum has continued to enhance its exhibitions with the Critics’ Lecture Series, which has included many of the exhibiting artists, scholars, museum curators and art historians, including: Susan Sontag, Robert Hughes, Hilton Kramer, Michael Graves, Peter Plagens, Tom Wolfe, Germaine Greer, Dore Ashton, Carlos Fuentes, Michael Brenson, Frank Stella, Richard Serra, Helen Frankenthaler, Kirk Varnedoe, Lowery Sims, Michael Kimmelman, and Anne d’Harmoncourt.

The Museum is operated by the Director, the Associate Director, the Office Manager, the Registrar, Curator of Education, Accountant, Receptionist plus a staff made up partially of University students working through an internship program.

Transnational and Comparative Studies (TCS)
Ralph S. Clem, Director
Steven Heine, Associate Director

The Center for Transnational and Comparative Studies (TCS) at Florida International University was created in response to the increasing importance of recent social and economic transformations usually referred to as “globalization.” This process involves a relative decline in the influence of states and the commensurate rise in the importance of non-state and transnational actors, as well as very high speed linkages among financial markets, media, and personal communications. Globalization requires us to rethink traditional academic international relations and area studies modalities and to formulate new curricular and scholarly paradigms. TCS is located in DM 368, University Park. Phone: (305) 348-1914; Fax: (305) 348-6586. For more information contact Dr. Steven Heine, Director, at heines@fiu.edu or www.fiu.edu/~asian

clemr@fiu.edu or Dr. Steven Heine at heines@fiu.edu

Curricular Programs

The mission of The Center for Transnational and Comparative Studies is to enhance undergraduate and graduate certificate programs in international studies. TCS works with area studies programs outside of the long-established Latin American and Caribbean Center (LACC) in order to augment curriculum that explores lesser studied regions at FIU. The programs TCS currently works with include African-New World Studies, Asian Studies, European Studies, and Judaic Studies. TCS supports the development of more diverse area studies as well as trans-regional programs, and is developing new multidisciplinary, curricular programs in Transnational and Comparative Studies at the undergraduate and graduate levels.

Asian Studies Program

TCS houses the Asian Studies Program, which coordinates all academic, study abroad, and outreach activities related to Asia within Florida International University and offers two undergraduate certificate programs: one in Asian Studies and the other in Asian Globalization and Latin America. These programs are designed to offer a competitive advantage to students who study Asia and its role on the global stage from social science, humanities, or business perspectives. Asian Studies is located in DM 369C, University Park. Phone: (305) 348-1914; Fax: (305) 348-6586. For more information contact Dr. Steven Heine, Director, at heines@fiu.edu or www.fiu.edu/~asian
The Division of Business & Finance comprises the offices of Auxiliary Services, Parking and Traffic, Budget Planning, Controller’s, Environmental Health and Safety, Equal Opportunity Programs, Facilities Management, Human Resources, North Campus Business and Finance, Public Safety and Purchasing.

Auxiliary Services
Auxiliary Services supervises the bookstore and food services operations on both University Park and the North Campus, which includes the Cafeteria, Gracie’s Grill and all vending operations.

Auxiliary Services also oversees the operations of Duplicating Services, which includes a Print Shop, Convenience Copiers and a Total Copy Reproduction Center. The unit offices are housed in Duplicating Services, DC 100 at University Park 348-2831 and ACI 148 on the North Campus 919-5660

Controller’s Office
This area is primarily responsible for maintaining accounting records, controlling budgets, coordinating financial activities and reporting on financial data. Typical functions of the Controller’s Office are the payment of invoices to vendors, collection of fees and other revenues, contract and grant accounting, payroll, disbursement and collection of student loans and the reconciliation of accounting ledgers.

The Controller’s Office is a service oriented unit assisting the University community in most aspects of financial operations. Questions concerning the use of State funds, internal control procedures or methods to pay a vendor or employee are normally addressed to this unit. Guidance is provided to travelers pertaining to the State requirements for the reimbursement of travel expenses. Assistance is provided to employees in the interpretation of accounting ledgers and fiscal reports.

The following sections operate within the Controller’s Office: General Accounting, Accounts Payable, Travel, Construction and Property Accounting, Contracts and Grants, Disbursement, Student Loan and Accounts Receivable, Payroll, and the Cashier’s Office at all campuses.

Business and Finance

Environmental Health and Safety
The Department of Environmental Health & Safety & Risk Management Services provides the leadership and direction necessary to assure identification, implementation and effective administration of programs designed to promote hazard recognition, avoidance, reporting and control, as well as compliance with various federal, state and local safety regulations.

In addition to programs necessary for regulatory compliance, the department takes a proactive approach on many issues. Among the programs and activities managed by the department are: investigation and initial processing of liability claims against the University; review of risk management concerns related to special events planned by student organizations and University employees and presentations to student groups; indoor air quality investigations; and management of the Dive Safety Office. The DSO monitors and supports scientific diving.

The primary component of the department’s mission is service. This mission is accomplished by working in close coordination and cooperation with other departments and the University community in general. At University Park, the department is located at CSC 162, 348-2621/2262. Services are provided at the North Campus from the Facilities Operations complex, S01 115, 919-5225.

Equal Opportunity Programs
This office provides leadership and direction in the administration of the University’s equalization programs for women and minorities in several ways. It prepares the University’s annual Affirmative Action Plan and the State Equity Accountability Plan, assists University units in implementing and monitoring affirmative action procedures; provides oversight to the University Diversity Program; provides a channel for employee and student grievances regarding discrimination, or issues indicating a need for additional affirmative actions; administers implementation of the Policy to Prohibit Sexual Harassment; coordinates University compliance with the Americans with Disabilities Act and with Title IX of the Education Amendments of 1972, and promotes effective relationships between the University and community organizations. Equal Opportunity Programs also administers the State University System’s scholarship programs funded for the purpose of increasing minority enrollment. In addition, the Office maintains a liaison relationship with State and Federal agencies dealing with EEO and affirmative action. The Office is located at University Park, PC 511, (305) 348-2785.

Americans with Disabilities Act (ADA)
The Director for Equal Opportunity Programs is the University’s ADA Coordinator, and has responsibility for ensuring access to employment, academic and public programs for persons with disabilities. The Office administers a central budget used to fund the costs of reasonable accommodations for University employees and applicants for employment. The office also works closely with the Office of Disability Services for Students in the provision of auxiliary aids and services to ensure access to academic programs, and with all University offices in the provision of access to University public events.

HIV/AIDS Policy
Students and employees of the University who may become infected with the HIV/AIDS virus will not be excluded from enrollment or employment or restricted in their access to University services or facilities, unless individual medically-based judgments establish that exclusion or restriction is necessary to the welfare of the individual or to other members of the University community. The University has established an HIV/AIDS Committee which includes representatives from major University divisions and other staff as appropriate. The Committee, which meets regularly, is responsible for monitoring developments with regard to HIV/AIDS, acting upon and administering the University’s Policy on HIV/AIDS in specific cases, and coordinating the University’s efforts in educating the University community on the nature of the disease. In addition, the Committee will meet as needed to consider individual occurrences of the
disease which require University action.

Persons who know or suspect they are sero-positive are expected to seek expert medical advice and are obligated, ethically and legally, to conduct themselves responsibly for the protection of others.

The University has designated HIV/AIDS counselors who are available to provide further information on this subject. Contact one of the following offices at University Park, Director for Equal Opportunity Programs, PC 511; Counseling Services, GC 340; and Student Health Services, OE 115. North Campus contact, Counseling Services, WUC 261 or the Health & Wellness Center North Campus.

Sexual Harassment

Nondiscrimination

Educational Equity

All members of the University Community are entitled to study and work in an atmosphere free from illegal discrimination. Florida International University’s equal opportunity policy prohibits discrimination against students and employees on the basis of their race, color, creed, age, disability, sex (including sexual harassment), religion, marital status, or national origin. Under the policy, it does not matter whether the discrimination was intended or not; the focus is on whether students or employees have been treated differently or subjected to intimidation, or a hostile or offensive environment as a result of their belonging to a protected class or having a protected status. Illegal sexual harassment includes un-welcome physical contact of a sexual nature, overt or implied threats to induce performance of sexual favors, verbal harassment, use of sexually suggestive terms, or display or posting of sexually offensive pictures.

Any employee, applicant, or student who believes that he or she may be a victim of unlawful discrimination may file a complaint with the Office of Equal Opportunity Programs, PC 511 at University Park (348-2785) in accordance with this procedure.

Facilities Management

Facilities Management provides professional support to planning, designing, construction, maintenance, and operations of facilities on all campuses, to accommodate all aspects of the University mission as defined in the Campus Master Plan. This department is separated into three major areas of supervision which are Facilities Development, Facilities Operations and Utilities Support Services.

Facilities Development is responsible for all design and construction projects. These activities include building programs, design coordination, construction administration and occupancy coordination.

Facilities Operations is responsible for the operations and logistics of physical resources including building and grounds maintenance, custodial, landscaping, roads and parking lots.

For routine and emergency maintenance services, please contact the Customer Service Center at 348-4600 at University Park and 919-5700 at North Campus.

Utilities Support Services oversees the University’s utility systems including air conditioning, water, sewage, electrical power and solid waste management. In addition, Utilities Support Services works together with Environmental Health & Safety to assure that all toxic (biological or chemical) wastes are disposed of properly.

Human Resources

The Office of Human Resources provides human resource management services for staff members and employees of all academic and administrative departments including student employees, research or graduate assistants, college work study and OPS employees on all campuses. All services provided by the office are in compliance with applicable federal and state regulations, and include six major human resources areas—Employment/Recruitment, Compensation/Classification, Employee Professional Development Programs, Employee Benefits, Personnel Records and Workers’ Compensation, Employee and Labor Relations.

The University Park office is located in PC 224, 348-2181; the North Campus office is located at 322-A Library Building, 919-5545.

Public Safety

Public Safety is a full service law enforcement organization dedicated to assuring an environment conducive to living and learning in a University community. The department’s members include Law Enforcement Officers who are fully certified and sworn, and have full police authority to enforce state, local and University regulations.

Purchasing Services

Purchasing Services is organized to support students, the instructional and research efforts of the faculty, staff, and all University departments. Purchasing involves the acquisition of equipment, furnishings, supplies, construction services, preventive maintenance services, contractual services, and lease of space for the University.

Purchasing Services is responsible for a number of functions in addition to the primary function of centralized university purchasing. These other functions include Central Stores, Central Receiving, Property Control, Surplus Property and Campus Mail.

The office is located at University Park, CSC 410 and can be reached at 348-2161.

University Budget and Planning

University Budget and Planning is responsible for the development of all operating budgets in all budget entities, including capital programs, legislative budget requests, operating budget requests and internal operating budget plan. The annual operating budget for the University is published by the office and the charts and graphs are reproduced on the website maintained by the office. A major responsibility includes the monitoring of budgets throughout the year to ensure that budgets by category are not exceeded. The office works closely with and monitors the auxiliary enterprises of the University to ensure compliance with policies and that a strategic direction is followed. The office also has responsibility for University planning, including long range planning. Planning involves working closely with the Executive Council, which is the long range (strategic) planning body for the University, in terms of the long range vision and goals of the University, both in relation to the operating (budget) and facilities (PECO) needs. The office is located in PC 522 and can be reached at 348-2104.
North Campus

The North Campus of Florida International University is located on 200 acres on Biscayne Bay and has an enrollment of about 8000 students. Academic programs in Hospitality Management, Journalism and Mass Communication, Nursing, and Urban and Public Affairs are headquartered on the North Campus. Degree programs in Arts and Sciences, Business Administration, Education, and Health Sciences are also offered.

The North Campus is the hub of the University's Continuing Education and outreach efforts. It serves as host to the Elders Institute, the HRS/Children and Families Professional Development Centre, the Institute of Government, the Institute for Public Opinion Research, the Roz and Cal Kovens Conference Center, and the Southeast Florida Center on Aging.

Students may apply for admission and financial aid, register for classes and receive academic advising at North Campus. The North Campus Library occupies 57,000 square feet and has a seating capacity of 600. It is a Federal and Florida State Government Document Depository. The Library has its own local area network for CD-ROMS and serves as the locus for the FIU Libraries PantherNet, a prototype remote dial-in system that allows telephone access to CD-ROMs, electronic journals, electronic reserves, library publications and provides support for Distance Learning.

Apartment-style residential housing on the North Campus accommodates 276 students. Student life is enhanced through the provision of programs and services offered in the Wolfe University Center, the focal point of social and cultural activity outside of the classroom. The Wolfe Center houses the cafeteria, University Bookstore, Student Government offices, an Olympic-size pool, computer lab, vending machines, automatic banking facilities, a post office, a 300-seat theater, meeting rooms, a ballroom and game room. Student development programs in Recreational Sports, Career Services, Disability Services, International Student Services, Minority Student Services, Orientation, Student Activities, Student Counseling, Student Health and Wellness, Victim Advocacy, the Volunteer Action Center and the Women's Center are also provided on the campus.

The Campus is administered by the Office of the Vice Provost of North Campus. This office is on the Third Floor of the Library. Representatives from the Divisions of Academic Affairs, Business and Finance, Student Affairs and University Relations are also located there. Liaisons with personnel in other Divisions and at University Park are coordinated through Office of the Vice Provost and Academic Affairs, (305) 919-5700.
University Advancement

Community Relations
Community Relations strengthens ties between FIU and the community by planning and coordinating major university events. The office also assists in hosting visiting dignitaries, helps other university units implement events, and oversees FIU's participation in community activities.

Alumni Relations
The Office of Alumni Relations oversees the university's relations with its more than 80,000 alumni. Staff members develop programs to keep in communication with graduates and provide them with ongoing benefits such as career development and networking opportunities. The office organizes the activities of the university-wide Alumni Association and guides its chapters.

Alumni Relations, publishes the FIU Alumni News, which is sent to all members of the Alumni Association.

The Office of Alumni Relations welcomes all graduates and guests to FIU and encourages student involvement in its student chapter and at various events. Visit the office at PC 234 or for more information call 1-800-FIU-ALUM.

Development
The Development Office identifies and works with individuals, corporations, private foundations, and other organizations that have an interest in contributing to FIU. Development staff collaborate with university administrators and faculty as well as the Board of Trustees of the FIU Foundation and other volunteers on specific fundraising efforts, including the $200 million campaign for FIU, which runs through 2002. In addition, the staff organizes programs to recognize and honor the university's benefactors and promotes FIU through an active program of merchandise licensing.

The Division of University Advancement coordinates the university's private fund-raising activities and generates a variety of support for the university from alumni and friends in South Florida and beyond.

Advancement comprises three areas that interact very closely: Development, Alumni Relations, and Community Relations.

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Student Affairs

Children's Creative Learning Center

The Children's Creative Learning Center at FIU is an Educational Research Center for Child Development. The Center is a department of the Division of Student Affairs.

The Center offers a full day educational preschool program to children between the ages of two years and six months (toilet trained) through five years. The program is designed to meet the needs of children Monday through Friday, from 7:45 a.m. to 6:00 p.m., with pick-up at 12:00 p.m. or after 3:30 p.m.

Since the inception in 1975, this model program has become well known for providing appropriate hands on experiences for children of students, faculty, staff, alumni, and the neighboring community. Enrollment priority is given to children of students.

Children are viewed as individuals. Each child is encouraged to develop socially, emotionally, physically, cognitively, and intellectually at his/her own rate of growth. Working toward their maximum potential, the children are nurtured by being exposed to the many content areas the teachers offer such as: art, music, movement, science, cooking, dramatic play, and outdoor play. Language and literacy, pre-math, and developmental tasks along with hands on experiences of educational concepts to convey awareness of the world around us are included. A creative atmosphere exists where educational concepts are introduced as hands on experiences and through different areas around the classroom. Through these real life experiences, the children make sense of their world.

Parent involvement is a high priority at the Center. Parents are an integral part of the community by making a commitment to engage in meaningful experiences with their children. This enriches the children's experiences and supports family relationships. Parent workshops are offered as well as family gatherings.

For more information or to receive a copy of the Center's brochure and request for admission, please call (305) 348-2143.

Greek Life

Greek Organizations contribute to the University by promoting leadership, scholarship, service, social activities and brotherhood and sisterhood. The fraternities and sororities are coordinated by a Greek Advisory Board. An Interfraternity Council governs fraternities, a National Pan-Hellenic Council governs historically African-American fraternities and sororities, and the Panellenic Council governs sororities. The Order of Omega is the honorary and leadership society of fraternities and sororities that promotes leadership and scholarship among Greeks. A formal rush (recruitment) is held in the Fall semester, and an informal rush is held during the Spring term. However, many fraternities have a 365-day recruitment schedule.

Location: GC 316, University Park, (305) 348-1293 or (305) 348-2138

Student Government Association

The Student Government Association is comprised of representatives from all Schools and Colleges who are elected by the student body. There is a Student Government Council at both the North Campus and University Park. SGA is responsible for overseeing and appropriating the Activity and Service (A&S) fees paid by all students each semester. These fees fund many of the campus life events, student activities, and clubs and organizations. SGA also acts as the liaison between the students and administrative areas of the University, specifically speaking, and lobbying on behalf of students.

SGA members represent the student body on University-wide committees and task forces to ensure student representation at the administrative level. SGA meets regularly and students are highly encouraged to attend meetings and become involved in all aspects of Student Government.

Location: GC 311, University Park, (305) 348-2121; WUC 363, North Campus, (305) 919-5680; LA, Room 203, Davie, (954) 236-1518; University Tower, Room 506, Fort Lauderdale, (954) 355-5279.
Volunteer Action Center

The Volunteer Action Center is the central office for community service, service learning, and volunteer activities on and off campus. The center encourages students to realize their potential to impact their community and effect social change through the power of service-learning, advocacy, and volunteerism. VAC organizes monthly volunteer projects, alternative break programs, and serves as a clearing house for volunteer opportunities.

Location: GC 340, University Park, (305) 348-2149.

Campus Ministry

The Interfaith Campus Ministry serves student groups involved in a variety of activities. Professional representatives from various faiths are available for personal appointments. Individual denominations sponsor campus-wide programs including worship, study groups, social gatherings, and cultural events. Campus Ministry sponsors programs and activities which are non-denominational.

Location: TC 112, University Park, (305) 348-3902; WUC 265, North Campus, (305) 919-5247.

Career Services

Career Services is a centralized, user-friendly office that assists students in choosing a major, finding a job, and securing a career. Our programs and services are “high tech” with individualized attention.

We offer automated career interests inventories, internships (many providing salary and credit), a 24-hour Golden Panther JobsLine, on-campus recruiting, Career Fairs, a Federal Government KIOSK, Law/Graduate Recruitment Day, Career Forums, Resume Referrals, and videoconferencing technology for interviewing. Additionally, we offer a virtual library, resume critique sessions for scannable vitae, behavioral interviewing tips, business etiquette dinners, dressing for success seminars, and networking workshops.

Check out our interactive WEB page with job bank links http://www.fiu.edu/~career/.

Locations: University Park, GC 230, (305) 348-2423; North Campus, WUC 225, (305) 919-5770.

Disability Services for Students

Disability Services for Students provides information and assistance to students with disabilities who are in need of special accommodations. Individual services are available to students with visual, hearing, speech, physical, and learning disabilities. Services include counseling, classroom accommodations, adapted equipment, note-takers, readers, interpreters, adapted testing, priority registration, and referrals. Support and assistance in overcoming architectural, academic, attitudinal, and other barriers encountered are provided. Requests for services must be made prior to the beginning of each semester and current documentation of disability is required to receive services.

Location: GC 190, University Park, (305) 348-3532; WUC 139, North Campus, (305) 919-5305; Bldg. 9, Room 224, Broward Program, (954) 948-6793; TTY/TDD 348-3852.

Student Health Services

The Health Care and Wellness Center provides professional health care for routine, non-emergency illness and injuries by promoting health education, wellness programs, and preventive medicine. The Health Care and Wellness Center stimulates student awareness of holistic health behaviors which may be integrated into lifestyle practices to maintain optimal physical and mental health.

Medical services offered at the Health Clinic include routine office visits, physical examinations, family planning consultations, HIV testing, immunizations, laboratory testing, limited pharmacy, nutrition counseling, exercise testing, and private consultations with a physician or nurse practitioner. Referrals are made to local hospitals, pharmacies, and physicians for services not provided at the Health Clinic. Appointments are required. In case of an emergency on campus, Public Safety should immediately be called 24 hours a day.

Office visits are free to students who present an FIU identification card valid for the current semester. Laboratory, immunization, office procedures, and pharmacy services are provided for a nominal fee.

Students may participate in many free health educational programs that stress proactive prevention, including Student Health Advocates for Peer Education (SHAPE), AIDS Peer Educators, and the Student Health Advisory Council (SHAC), fitness testing, EMPOWER motivational diet groups, running/walking club, health fairs, health theme week, and others. The Wellness Media Center health educational resources includes medical textbooks, journals, audiotapes, videotapes, computer interactive software programs, CD-ROM programs, and laser videodiscs.

For more information, please see:
• The Student Handbook
• The “Access Health” 24-hour hotline at (305) 348-5683
• The Health Care and Wellness Center Website at http://www.fiu.edu/~health featuring the popular “Ask Dr. Well B” Interactive (personal health education), information on insurance, immunizations, emergencies, and a variety of health topics, as well as many external links to other health websites, a calendar of “Healthy Happenings” at FIU, and much more!

Location: Health Care & Wellness Center

University Park
Appointments and
Information 348-2401
Administration 348-3080
Immunization 348-2688
Health Education/Wellness Center 348-4020
“Access Health” Line 348-5683
(24 hours)
North Campus
Appointments and
Information 919-5620
Immunizations 919-5675
Wellness Center 919-5307

Student Media

Student media at FIU include The Beacon newspaper, WRGP radio, and Vision yearbook.

The Beacon is an editorially independent publication produced by students and distributed free. The purpose of The Beacon is to keep the University community informed about campus events and activities; to serve as a forum for opinion and commentary concerning campus related topics; and to protect the interests of the University community and its component parts. It is published each Tuesday during the Fall and Spring terms, except during holiday breaks. It is also published eight times during the Summer term. Students can work on the staff in news
and features, photography, and/or advertising. No prior experience is required.

WRGP is FIU's radio station located at 88.1 FM. Its programming is an eclectic mix of the latest music on the cutting edge of the alternative scene, FIU sports play-by-play, and news. Programming also includes weekly specialty shows that cover the music spectrum of metal to raggae, and in between is Caribbean, hip-hop, rap, Latin rock, and jazz. The station operates from 7 a.m. to past midnight seven days a week. The station provides a means for students to acquire experience in various disciplines related to the broadcast industry, including hands-on experience in a realistic, business-like setting encompassing teamwork and professional standards. Students can work in areas such as broadcasting, business, promotions, and/or engineering. Prior experience is not required.

Vision is the official yearbook of FIU. The book is published each year and delivered to students and staff that purchased it. Its purpose is to serve as a historical record, a memory book, a reference source, a public relations vehicle, and an educational tool. The Student Government Association funds it. Prior experience is not needed to serve on the staff.

Location: The Beacon, GC 210 University Park (305) 348-1580; WUC 220, North Campus (305) 919-5668. WRGP, GC 319, University Park, (305) 348-3071. Vision, GC 317, University Park, (305) 348-4562 or 348-1049.

University Housing

University Housing offers a wide variety of accommodations serving over 1500 students at both the University Park and North Miami campuses. Both furnished apartments, as well as a new state-of-the-art traditional residence hall, are available.

The traditional residence hall, Panther Hall, opened in the Fall of 1996. This 410 bed fully-furnished residence hall consists of two bedrooms, kitchens, private and semi-private baths, and basic furnishings. Apartment styles include studios, efficiencies, one bedroom, and two bedrooms.

Prices vary depending on the type of unit and campus location, with an average semestery cost of $1,475.00. Semester rates include all utilities (electric, local telephone service, cable television, and water). All housing agreements are issued for the academic year with summer assignments available. A $150.00 deposit is required at the time of application, of which $50.00 is a non-refundable processing fee. Each residential facility provides easy access to the library, classroom buildings, athletic events, and a variety of on-campus recreation, social and cultural activities. All facilities are staffed with individuals who are trained and committed to providing the student with a living environment that is supportive of their academic pursuits. University Housing's goal is to challenge each resident to get involved and take advantage of the many out of classroom learning opportunities. Living on campus is a critical part of the college experience.

Location: Panther Hall (PH) 126, (305) 348-4190; Fax (305) 348-4295; E-Mail: housing@fiu.edu Website: http://www.fiu.edu/housing

International Student and Scholar Services

International Student and Scholar Services provides assistance to international students, faculty, and researchers in non-immigrant status. The staff provides advising services on immigration, cultural, personal, social, and financial concerns.

The department serves as a liaison to academic and administrative departments throughout the University. An orientation program is offered each semester as well as social and cultural programs to assist students in adapting more effectively to the University community and to living in Miami. An active International Student Club on each campus collaborates with the department in organizing various social activities. Club programs enable students to participate in the international dimension of the University and provide opportunities for involvement in the greater Miami community.

Location: GC 217, University Park, (305) 348-2421; WUC 255, North Campus, (305) 919-5813.

Multicultural Programs and Services

The Office of Multicultural Programs and Services comprises Collegiate and Precollege programs. Collegiate Programs provide students with personal, academic, social, and cultural support needed for the achievement of educational goals. Staff provide orientation, leadership, development, counseling, career and academic advisement, financial assistance, and tutorials; and serve as a liaison to academic units and student support services University-wide. This department also collaborates with student groups in coordinating traditional cultural celebrations, and other activities for minority students.

Location: GC 216, University Park, (305) 348-2436; WUC 253, North Campus, (305) 919-5817.

Precollege Programs provide academic enrichment, career planning, and scholarship opportunities to promising minority students at the high school level. Precollege programs also expose high school students to the University environment and facilitate their transition to college.

Location: GC 216, University Park, (305) 348-2436.

The office manages two TRIO Program Grants. The Student Support Services Program is a federally funded program aimed at increasing the retention and graduation rates of first generation college students until they earn their baccalaureate degree. The Upward Bound precollege program provides supplemental instruction in academic areas, counseling, and life-skills training with the major objective of stimulating interest in attending college.

Location (Student Support Services) GC 216, University Park, (305) 348-2436; WUC 253, North Campus, (305) 919-5817. (Upward Bound Program) GC 225, University Park, (305) 348-1742.

Office of the Ombudsman

The Ombudsman Office acts as an impartial and confidential forum to assist students who have encountered problems or conflicts at the University, particularly problems or concerns not adequately addressed through normal channels. This may include correcting processes or procedures, which are incapable of resolving the issue, or are causing an inordinate delay. The Ombudsman may resolve problems through various methods, including investigation, mediation, or making referrals to the appropriate University department for review. The Ombudsman should be utilized in situations where all areas of appeal have been exhausted or proven unsuccessful.

For more information or services, please contact the Office of the
Ombudsman at (305) 348-2797 located in Graham Center 219.

**Orientation**

Panther Preview, FIU’s Orientation program, is designed to introduce students and parents to Florida International University. Orientation sessions are scheduled prior to the Fall and Spring terms. The mandatory two-day program for freshmen includes placement testing, advising, question and answer sessions, and a taste of campus life. The one-day parent program introduces parents to FIU, as well as assists them in preparing for the challenges and changes of parenting a college student. Transfer students are strongly encouraged to attend a half-day Orientation that includes advising, question and answer sessions, and a campus tour. Information about Orientation and related services is mailed to newly admitted undergraduate students prior to the first term of enrollment.

Location: GC 112A, University Park, (305) 348-3828; WUC 363, North Campus, (305) 919-5804.

**Student Judicial and Mediation Services**

The Office of Student Judicial and Mediation Services ensures that the policies and procedures regarding student rights and responsibilities and the Student Code of Conduct which support these rights, can be freely exercised by each student without interference by others.

As members of the University community, students are expected to honor and abide by the policies and regulations of the University and the Florida Board of Regents as well as Federal and State laws and local ordinances. The Office of Judicial and Mediation Services provides an educational forum which supports the academic mission of the University and fosters the personal growth and positive learning experiences of students. Infringements of an academic nature should be directed to the Office of the Provost. All other complaints that are non-academic should be directed to Judicial and Mediation Services. The University reserves the right to review the case of any student who has been implicated in a criminal offense prior to admission, to determine the student’s eligibility for admission and participation in extracurricular activities. See the Student Handbook for more information on Judicial Services.

Location: GC 214A, University Park, (305) 348-3939.

**University Centers**

The University Center on each campus provides direct services to students and the University community. The Graham Center (GC) at University Park and the Wolfe Center (WUC) at North Campus are the focal points for the University community to meet and interact in a non-classroom, educational environment. Staff in the centers coordinate the scheduling of space and assist with the production of student and University-sponsored events.

As the hubs of University life, the buildings house the offices of Student Government Association (SGA); Student Organizations Council (SOC); The Beacon student newspaper; Faculty Club, and departments of the Division of Student Affairs that provide services to students: Career Services, Counseling and Psychological Services, Office of Disability Services for Students, International Student and Scholar Services, Victim Advocacy Center, Student Advocacy and MCI Centers, Office of Multicultural Programs and Services, Campus Life, Women’s Center, Volunteer Action Center, Judicial and Mediation Services, and the Office of the Vice President for Student Affairs.

The University Centers also offer the services of computer labs, bookstores, cafeterias, grills, vending machines, credit unions, copy centers, automatic banking facilities, auditoriums, lounges, meeting rooms, ballrooms, movie theaters, and game rooms. Other services include: Lost and Found, locker rentals, vending refills, test preparation courses, and Photo I.D. card.

The Graham Center houses classrooms, an art gallery, the Radio Station (WRGP), TicketMaster, a satellite cashiering office, a food court offering Pollo Tropical, Subway, Mex-Tex, Pizza Hut, Burger King, Edy’s Ice Cream, Smoothie Time Health Food, and a coffee shop. The mini-mall offers a credit union, computer store, convenience store, copy center, bookstore, hair and nail salon, and travel agency.

The Wolfe Center at the North Miami Campus University Center houses a post office, a theater, and parking services, professional dry cleaning, and a credit union.

The administrative offices of the University Centers are located, as follows: GC 104 at University Park (305) 348-2297; WUC 325 at North Miami Campus (305) 940-5800.

**Victim Advocacy Center**

The Victim Advocacy Center provides emergency crisis intervention, ongoing support, advocacy, and resource referral to students, faculty, staff, and alumni who have been victims of crime or abuse. The Center provides awareness and prevention workshops and educational programs. A resource library is available for student use at the University Park office. All services are free and confidential.

The Victim Advocacy Center deals with, but is not limited to the following types of victimization: sexual violence, relationship abuse, stalking, assault and battery, hate crimes, sexual harassment, and indecent exposure. Support is also available to surviving friends and family of murder victims. Persons who have experienced incidents of violence, harassment, or abuse are encouraged to seek assistance from the Victim Advocacy Center.

Location: GC 195A, University Park (305) 348-1214; WUC 257, North Campus, (305) 919-5324; Crisis Response Line, 24 hours (305) 348-3000.

**Women's Center**

The Women's Center offers various programs and services related to the intellectual, social, and professional growth of women. Through collective efforts, the Center advocates for systematic changes that will improve the lives of women and men. Center programming focuses on the particular needs of women students, and encourages women to learn more about themselves, other women, and the environment in which they live. A Women’s Mentoring Program exists to promote the professional and leadership success of women students. All other programs are open to the entire community. Services provided by the Center focus on women, and include, confidential referrals, database of scholarships, library and resource files, and opportunities for internships.

Locations: GC 318, University Park, (305) 348-3692 and WUC 257, North Campus, (305) 919-5359.
Grants and Research
Grants and Research plans, prepares, submits, and monitors external grant applications for the Division of Student Affairs. The office also researches and investigates potential grant opportunities, provides direction in the monitoring and evaluation of externally funded programs initiated by staff members, and serves as liaison with the University's Sponsored Research Office.
This office develops partnerships with community and local educational agencies and acts as liaison with private and public agencies and organizations. Training is provided for Division staff regarding development and management of external funding opportunities. Policies regarding grants and grant writing are formulated and implemented. Grants and Research also directs grant budgets and oversees budgeting of obtained grants.
Location: GC 331, University Park, (305) 348-2446.

Counseling and Psychological Services
The Counseling and Psychological Services Center offers a spectrum of mental health services which enhance the emotional and cognitive wellbeing of students. Individual, couple, and group counseling are offered.
Biofeedback services and psychological testing are also available. Workshops and seminars related to mental health issues are offered to the University community. Consultation services can be utilized by faculty or staff regarding student concerns. All services are free and confidential.
Location: GC 211, University Park, (305) 348-2434; WUC 139, North Campus, (305) 919-5305.

North Campus Recreational Sports
North Campus Recreational Sports provides a variety of recreational, aquatic, and educational experiences. It contributes to the personal development of students and others by providing a variety of activities designed to enhance physical health while fostering an appreciation of competition, social skills, and cultural diversity.
The program includes the following: intramurals, aerobics and step and boxing aerobics, nautilus and weight training, swimming classes, Lifeguard training, tennis clinics, swim/sports camps, fitness center, aquatic center, tennis facility and GMAC water polo tournaments. Special events include deep sea fishing, golf, turkey trot, and two bench press competitions.
Location: North Campus Recreation Office, (305) 919-4571.
University Outreach Programs

The mission of University Outreach is to develop and implement quality educational programs and services in partnership with the academic, business, and professional communities. The instructional and academic resources of the University will be extended through innovative approaches including distance learning, alternative scheduling, and community-based academic credit and Professional Development Programs. State-of-the-art technological capabilities offer a high-quality learning environment at the Kovens Conference Center or on a customer’s location. A professional and courteous team is dedicated to the highest standards of customer satisfaction. Local, state, national, and international communities will be served with consistent, cost-effective, high-quality and distinctive programs and services.

University Outreach carries out its mission to extend lifelong learning opportunities to adult and non-traditional students by providing increased access to University programs. Courses of instruction are developed and offered in a variety of formats. These formats include professional development seminars, short courses, workshops, lecture series, and career training.

Academic Credit Programs

Degree programs and courses for academic credit are scheduled to meet student needs by offering them at times and locations that will increase learning opportunities. More than 200 courses for academic credit are offered annually off-campus in Dade and Monroe Counties. Weekend degree programs for working professionals are offered in collaboration with the University’s thirteen colleges and schools. Instruction using telecommunications is offered between campuses, public schools, and other locations with the proper equipment.

An individual, employer, public agency or professional organization may request that a specific course or degree program be offered, and may contract with the University to provide credit courses and degree programs at the site to benefit a designated group of individuals. Study Abroad courses are also available in several academic disciplines in Europe, Asia, Africa, Latin America and the Caribbean.

Students may register for Outreach credit courses through the traditional registration process at North Campus or University Park. Special registration arrangements are made for students who meet at off-campus sites. For more information on Academic Credit Programs call (305) 919-5669.

Distance Learning

Distance Learning coordinates credit & Professional Development courses through state-of-the-art technology. Students are linked with professors electronically through television, computers, videotape, video conferencing, satellite teleconferencing, and other innovative technologies. Learning can occur in the home, in offices, in the community, or at Adult Education Centers convenient to the learner.

Distance Learning may occur anytime during the day at the convenience of the learner. Some instruction occurs at specific times and in specific locations on and off-campus. Instead of taking time to travel to and from campuses, students with job and family responsibilities may now tailor their academic work to their own busy schedules.

Each Distance Learning course is the equivalent of an on-campus section of the same course as to learning objectives, course content, and transferability. Students must meet stated prerequisites or assessment scores where applicable. Distance Learning courses provides the student a higher degree of scheduling flexibility. For more information about Distance Learning and course offerings, call (305) 919-5217.

Professional Development

Professional Development instruction includes career change and retraining programs, and seminars/workshops for professional development or personal enrichment. Professional Development programs are taught by University faculty or professional experts in a specific discipline. A business, agency or professional organization may also contract to have courses or a certificate program offered for employees at a specified location. Continuing education units (CEUs) may be awarded to eligible participants in non-credit instruction applicable to professional licensing requirements.

Students may register for professional development courses by telephone, Fax (919-5484), mail, or by visiting the University Outreach Office in person. Special registration arrangements are made for students who meet at off-campus sites. Professional Development Courses may be paid by check, money order, Visa, or MasterCard. A catalog of Outreach programs is published each semester and may be requested by calling (305) 919-5669.

Legal Studies Program

University Outreach offers the following Legal Studies programs: Legal Assistant, Legal Secretary, Law and Business Office Management, Immigration and Nationality Law, Medical/Legal Consultant, Family Mediation training, Circuit Civil Mediation training, and other courses for attorneys and paralegals. For more information call (305) 348-2491.

Roz and Cal Kovens Conference Center

The Roz and Cal Kovens Conference Center at Florida International University supports the teaching, research, and public service mission of the University by offering an outstanding conference and meeting environment. Conference Center staff deliver quality meeting planning support services, and programs that meet or exceed the expectations of all internal and external clients of the Center. Whether it is an academic symposium, a governmental assembly, a civic gathering, a professional seminar, an industrial/technological conference or a multinational corporate meeting, the Kevens Conference Center has a full array of University resources, faculty and staff available.

The Center is fully equipped with state-of-the-art telecommunications resources including computer labs, video-conferencing, audio/visual services, and case study rooms. Conferences have access to uplink/downlink satellite transmission enabling them to transmit to and from locations throughout the world. Simultaneous translation capabilities for up to three languages are also available. This exceptional array of communications services can satisfy the needs of the most demanding clientele. For more information call the Kevens Conference Center at (305)-919-5000.
Conference Services
Kovens Conference Center staff are available to help you transform your program ideas into successful conferences, workshops, seminars, institutes, meetings and other related educational activities. Before the program, staff can help with program planning and concept design, coordinate bid preparations, coordinate promotional activities, and coordinate all other meeting logistics. These services are available for off campus conferences as well.
During the program, staff will provide all program support services including directional signs, registration, arrange for required audiovisual, telecommunications, simultaneous translation, computer needs, and issue Continuing Education Units. After the program, staff will wrap-up all conference logistical details, process payment of all invoices, tabulate evaluations, and prepare final financial statements.
For more information, contact Florida International University's Kovens Conference Services staff at (305) 919-5000.

University Outreach Marketing
Outreach Marketing is responsible for promoting lifelong learning programs, and Kovens Conference Center activities. This office provides professional creative and artistic means of publicizing programs and services, including the development and distribution of publications, advertising, and public information. For more information on Outreach Marketing call (305) 919-5669.
The Division of University Relations is responsible for coordinating all of FIU's internal and external public relations activities. The division is comprised of five units: Governmental Relations, Media Relations, Publications, University Communications, and Federal Relations.

**Governmental Relations**

Governmental Relations coordinates and represents the University at the state and local levels of government.

**Media Relations**

Media Relations works with local, national and international news media to help promote the University's image, academic programs, research activities and special events. The office is responsible for disseminating all University news releases and statistical information to the media. The office also produces a monthly public affairs television show, *FIU In View*.

**Publications**

Publications produces effective and informative publications to advance the University's communications initiatives. The office provides a variety of services including marketing, design, desktop publishing, web site development and production. In conjunction with the typesetting auxiliary, this office directs and produces university publications, promotional collateral and advertisements.

**University Relations**

**Communications**

Communications manages and develops the editorial content of a wide variety of publications and other media, including the *FIU Magazine*, *FIU Now* and the University web site. These media provide information to FIU's key publics, including alumni, donors, civic and governmental leaders as well as students, faculty and staff. In addition, the office provides public relations and editorial services to the University.

**Federal Relations**

Federal Relations coordinates and represents the University at the federal level of government.
Intercollegiate Athletics

FIU is a member of the National Collegiate Athletic Association (NCAA), and the Sun Belt Conference for men and women. The University has competed at the Division I-AA level since September of 1987, having competed successfully at the Division II level since 1972. Programs and services in Intercollegiate Athletics provide an opportunity for student-athletes to develop as skilled performers in an educational setting. Much emphasis is placed on the student as a student-athlete to ensure intellectual, emotional and social well-being.

Athletics

Athletic team membership is open to all full-time students, who meet NCAA eligibility requirements and are enrolled in 12 credits. Women's programs consist of basketball, volleyball, soccer, golf, tennis, track, softball, and cross-country. Men's programs consist of basketball, soccer, baseball, indoor and outdoor track and cross country. To be eligible for intercollegiate competition, the University requires each student-athlete to be in good academic standing and make satisfactory progress toward a degree. Team membership is determined in a manner, which does not discriminate based on race, sex, national origin, marital status, age or disability.

Financial assistance is available to both freshmen and transfer students recruited for all 15 athletic teams. Assistance may include grants, scholarships, loans or self-help programs. To be eligible for financial assistance, each student-athlete must be in good academic standing and make satisfactory progress toward a degree.

Campus Recreation

The Intramural Sports Program is designed to provide a healthy, safe, and competitive outlet for students, employees, and alumni of Florida International University. The goal of the intramural sports program is to ensure that all members of the FIU community have an opportunity to participate in some type of recreational sports activity as regularly as his or her interest, ability, and time will permit. Through participation in the intramural sports program individuals are able to enjoy organized sports, have fun, and keep physically fit, meet people, cultivate leadership abilities, and put to good use various learned skills. Values such as sportsmanship, fair play, and mature behavior are stressed and encouraged.

Leagues and tournaments are offered in flag football, softball, soccer, basketball, volleyball, racquetball, bowling and tennis, billiards, floor hockey and mini golf.

Athletic and Recreational Facilities

The Golden Panther SportsPlex encompasses four facilities that serve as the sites for athletic, educational and recreational activities.

The Golden Panther SportsPlex is a multi-purpose facility. There is a seating capacity for special events of 5,000. It contains racquetball courts, basketball and volleyball courts, classrooms and locker rooms. The arena is open to students, faculty, staff, and alumni with valid identification.

The Golden Panther Baseball and Soccer Stadiums are the home to our intercollegiate men's and women's programs. Both stadiums are lighted. The baseball stadium seats 1,300 and the soccer stadium seats 1,500.

The FIU Community Stadium is a Football and Track facility. The stadium is also home to our intercollegiate men's and women's track and field programs. In the fall, Miami-Dade County Schools play many of their high school football games in this facility.

The FIU softball stadium has been upgraded by over $150,000 in renovations the past two years. It is the home to both the Golden Panther softball team and intramural play.

FIU students are admitted to all regular season intercollegiate athletic home events free of charge. Presentation of a valid University identification card is required.

Please call the following numbers for additional information: SportsPlex Facilities 348-3258; Golden Panther Box Office 348-4263.

Fitness Centers at University Park and North Campuses are equipped with a complete line of Nautilus machines and locker rooms. The Centers are available at no cost to currently enrolled students with valid identification cards. There is a semester fee for faculty, staff, and alumni.

The Aquatic Center on the North Campus overlooks the bay and is fully furnished to provide an environment for conversation, study and sunbathing. The multipurpose design of the 50 meter x 25-yard pool and diving well allow for recreational and instructional use.

The Racquet Sports Center at University Park has 12 lighted tennis courts and eight-lighted racquetball courts. The Racquet Sports Center at North Campus has six lighted tennis courts, along with a sand volleyball court. Both campuses have full-sized basketball courts near their Racquet Sports Centers.

For additional information or hours of operation call:

Campus Recreation: 348-2951
University Park, 919-4571 North Campus.

Fitness Center: 348-2575, University Park; 919-5678, North Campus.

GPA Open Recreation: 348-2900.

Racquet Sports Center: 348-2951, University Park; 919-4572, North Campus.

Aquatic Center: 919-4595.
Centers and Institutes

Jerome Bain Real Estate Institute

The Jerome Bain Real Estate Institute, a partnership between Florida International University’s College of Business Administration and the Realtor Association of Greater Miami and the Beaches, exists to create value for real estate firms and the real estate industry through its educational, research, and service activities. It is fast becoming a premier, University-based real estate educational and research center, known for its exceptional expertise in international real estate transactions.

The Center supports the College’s undergraduate academic major in real estate and is developing a graduate program in the field as well. Graduates have a solid grasp of issues facing the industry and of real estate business theory and practice.

The Center also sponsors theoretical and applied research on real estate topics and supports faculty research in this area. It is a repository for data related to real estate markets and periodically issues information on current market characteristics and future market conditions.

The Center offers management training seminars, symposia and conferences on topics of interest to professionals in the real estate industry. It also coordinates the provision of educational programs relating to certification and the continuing education needs of real estate professionals.

The Institute is located in the Ryder Business Building, University Park Campus, (305) 348-2771.

Center for Accounting, Auditing, and Tax Studies

The Center for Accounting, Auditing, and Tax Studies (CAATS), housed within the College of Business Administration and its School of Accounting, conducts and sponsors innovative research. Major ongoing projects focus on the audit impact of emerging technology and on the detection of fraud.

CAATS builds bridges to practitioners by turning ideas into products; it enhances the value of accountants’ services to clients and to the public by contributing to audit efficiency and effectiveness. CAATS’ international commitments relate to the accounting issues confronting the less developed nations, particularly in the Middle East and Latin America.

CAATS also conducts seminars and short courses designed to provide educational opportunities to South Florida public accountants, internal auditors, and management accountants. CAATS strives to be self supporting. Net fees carried by providing educational opportunities to accountants, together with contributions received from the public, are applied to research and to the enrichment of graduate instruction. In this way, CAATS provides the margin of excellence which enriches the entire educational experience.

All CAATS activity is dedicated to advancing accounting, auditing, and tax knowledge. CAATS is located in the Ryder Business Building, BA 245B, University Park, (305) 348-2861.

Center for the Administration of Justice

The Center for the Administration of Justice (CAJ) was founded at Florida International University, a member of the State University System of Florida, in 1984 to engage in research, training and public education about the administration of justice in Latin America. With offices in Miami and San Jose, Costa Rica, CAJ has become a unique international resource at the forefront of justice sector reform in Latin America.

CAJ employs a multidisciplinary and international staff of specialists, including lawyers, political scientists, public administrators and public policy analysts. Many are former justice sector officials with experience and skills in justice sector issues.

Giving special emphasis on support to local efforts to strengthen and invigorate fair and independent justice systems, the CAJ regularly works with public officials, scholars and practitioners in Latin America.

The CAJ has become a leading source of information and leadership on justice sector reform issues in Latin America. Its assessments have been widely disseminated and have been critical in public policy decision-making throughout the region.

Center for Advanced Technology and Education (NSF-CATE)

Introduction

The NSF-funded Center for Advanced Technology and Education - CATE provides a computing environment capable of engaging researchers as well as facilitating classroom and laboratory-based instruction in critical technology areas. CATE constitutes an infrastructure that is viable for cutting-edge research activities providing an environment that enhances the potential for: (a) Parallel and distributed processing, (b) high performance 3-D graphics for simulation, rendering and modeling, (c) real-time processing capability, (d) operating systems, graphics and software development that meet current standards, and (e) high-speed data acquisition, playback, and analysis.

Research Areas

- Image Processing and Computer Vision
- EEG-Based Imaging
- Robotics
- Real-time and Multidimensional Signal Processing
- Confocal Microscopy
- Flow Cytometry
- Human-Computer Interface Research

Main Equipment

- ESI-256 System, an Electrical System Imaging as a Human-Computer Interface for Brain Research
- Onyx supercomputer for true supercomputing and Graphics power
- Confocal Microscope for RCM 8000 real-time confocal microscopy for time-varying 3-D imagery
- Coulter EPICS Profile II Cytometer for measuring light scatter (fluorescence or laser) of microscopic particles
- Nomadic Mobile Robot (Nomad200) with integrated sensory modules
- Workstations with 22 Indys, 11 Pentium PCs

Human Resources

Director: Malek Adjouadi, Ph.D.
Manager: Patricio Vidal, M.Sc.
Support Staff: Julio Blandon, Erika Suarez, Luz Camacho, Claudia Rodrigues
Faculty: Armando Barreto, Ph.D., James Story, Ph.D.; Gustavo Roig,
Ph.D.; Wunnav Subbarao, Ph.D.; Ana Pasztor, Ph.D.; Maria Martinez, Ph.D.; and Julie Jacko, Ph.D.

Student Support: 9 Graduates and 5 Undergraduates


Center for Banking and Financial Institutions

The College of Business Administration at Florida International University has a long tradition of preparing students for careers in banking and financial institutions. The Center for Banking and Financial Institutions was established to provide additional services to banks and financial institutions in the southeastern United States, in Latin America, and in the Caribbean region. Through the Center, associates in such specialties as accounting, finance information systems, marketing, and human resource management apply their respective functional expertise to address contemporary issues in the banking and financial service industries.

The Center for Banking and Financial Institutions meets the demands of the banking and financial services sector through its educational, management development, research, and consulting activities.

The Center, along with the College of Business Administration’s Department of Finance, offers a short-course program leading to a Certificate in Banking.

The Center also conducts high-quality management training seminars and conferences on a host of topics of interest to banks and financial institutions. These topics range from consumer and commercial lending to credit analysis to Bank Security Act compliance to foreign trade financing. The Center also provides customized in-house training programs for institutions wanting a more individualized and focused approach.

The Center supports both theoretical and applied research on issues in the financial services sector. Research results have been presented to government agencies like the Federal Reserve Bank, provided to professional organizations like the Financial Management Association, and published in academic journals like the Journal of Financial and Quantitative Analysis. The Center also has produced research reports for specific organizations, like Citicorp International and the Miami International Airport. The Center’s research on international trade has gained worldwide media attention.

The Center serves as a consulting, clearinghouse and resource for banks and other financial institutions wanting to find experts to help them solve their unique organizational problems.

The Center for Banking and Financial Institutions is located in the Ryder Business Building, University Park Campus (305) 348-2771.

Center for International Business Education and Research (CIBER)

Established in 1995 and housed in Florida International University’s College of Business Administration, the Center for International Business and Research (CIBER) exists to promote teaching, research, and outreach aimed at helping students, faculty, and businesses identify and address the challenges posed by a global economy. More specifically, it seeks to internationalize these stakeholders in order to improve the competitiveness of U.S. firms in world markets.

The Center supports the international focus of the College’s academic programs and the University’s language-oriented courses. It provides a Certificate in Latin American Business Spanish and, with the University’s Department of Modern Languages, offers “Languages for Business” courses in Spanish, French, Japanese and Chinese. It also sponsors an international business course for local high schools and study-abroad programs for students.

The Center supports the College’s thematic research on international competitiveness, human resource management, logistics, entrepreneurship, ethics, and environmental compliance. It has coordinated research to support Miami-Dade County’s “One Community, One Goal” economic development plan. It sponsors the “Faculty Development in International Business—South America” study tour for faculty. In addition, the Center publishes an annual “Working Paper Series” describing its research projects for the year.

The Center is located in the Ryder Business Building on the University Park Campus, (305) 348-1740.

Center for Urban Education and Innovation

Created in 1998 and contextualized within the mission of the College of Education, the vision and scope of the Center for Urban Education and Innovation is three-fold: first, to participate, both proactively and in partnership with other educational and human service organizations, in the process of developing the professionals and programs capable of dealing more efficiently with the existing and rapidly changing reality that confronts our schools and communities, especially as that reality affects the performance, growth and achievement of children and other at-risk populations in urban settings; second, to address the possibilities, dilemmas and contradictions involved in altering and improving the urban reality; and third, to discover and disseminate the knowledge and perspectives required to improve the quality of life in schools and communities currently being challenged by, subjected to and undergoing acute social change.

More specifically, the Center’s mission involves:

- Becoming directly engaged in addressing the challenges of urban education through the development, implementation, evaluation, replication and generalization of collaborative programs with the Miami-Dade Public Schools, the Broward County Public Schools and other South Florida human service agencies;

- Developing specific educational initiatives to support the goals and objectives of America 2000: (1) Readiness to Start School; (2) Increased Graduation Rates and Readiness for Postsecondary Education and Employment; (3) Enhanced Student Academic Performance; (4) Schools Environments Conducive to Teaching and Learning; (5) Learning Environments that are safe and supportive of Student Needs; (6) Increased Professionalism of Teachers, Administrators and other Educational Personnel; and (7) Greater Adult Literacy;

- Utilizing its expertise and resources, especially the program development and research leadership talents of its Eminent Scholars, to create and assess innovative educational programs aimed at enhancing pre K-12
student performance (individual empowerment), building bridges between people and cultures (interconnectedness, and improving the human condition (social change);

- Addressing the unmet educational needs and aspirations of historically underserved populations: the poor, minorities, women, adult learners, the elderly, and the physically, mentally and emotionally challenged; and

- Become leaders and effective participants in the process of both shaping the national conversation concerning urban education and developing progressive public policy in the areas of education and human welfare.

By directly serving the community, the Center for Urban Education and Innovation will itself become a model for a new generation of such centers, each a focused action-research setting committed to generating new and useful knowledge by both addressing itself to meeting educational needs and solving real and pressing problems in the communities of which we are a part and to which we bear a special relationship.

Center for Youth Development (CYD)

The Center for Youth Development (CYD) located at University Park Campus is a multidisciplinary institution founded to conduct research aimed at the improved understanding and prevention of health-risk behaviors and environments that impair the healthy development of urban youth. In pursuing this goal, the CYD emphasizes understanding individual development as it occurs in diverse contexts including families, peer groups, schools, communities, and different cultures. The CYD is aimed at integrating ongoing research programs and training opportunities with the application and evaluation of youth-focused prevention/intervention programming in community settings. As a multidisciplinary forum for researchers and health professionals, the CYD pools substantial resources in terms of the vast array of conceptual perspectives, research methodologies, and intervention modalities exemplified by its members. These resources are critical for investigating how changing relations between youth and the settings in which they live influence their health-risk behaviors and related outcomes.

Researchers and practitioners associated with the CYD strive to share and integrate knowledge about the health behaviors of at-risk youth. Similarly, the CYD provides opportunities for collaboration and sharing of appropriate and effective health-related methodologies, e.g., with regard to assessment, intervention, or evaluation. One premise of the CYD is that social issues rooted in the health behaviors cannot be understood unless the social ecology that forms the context for the behaviors is also a focus of inquiry. Therefore, it is essential that our multidisciplinary network of health professionals not simply collaborate amongst ourselves, but that we also actively collaborate with the people who participate in our research, those we profess to serve. It is critical to integrate their perspectives when we seek to understand or to change risk behaviors. In addition, our success in implementing interventions and maintaining positive change depends upon active outreach into local communities and recruiting community members as collaborators in the assessment, intervention, and evaluation phases of research. Therefore, a third premise of the CYD is that to maintain positive changes in the communities served by FIU, the CYD has a responsibility to train students to go back into their communities as agents of change. Through the CYD, FIU students will help to implement research and intervention programs, disseminate health-related research into local communities, act as mentors for at-risk youth, and begin to form a community-based network of professionals who potentially will serve as links in continuing collaborations between FIU and local communities.

Faculty interest in the problems of youth has been the impetus for the formation of the CYD. Faculty associated with the CYD have active programs of research that involve publishing articles in relevant journals and pursuing extramural funding initiatives. In addition, CYD members teach a wide array of classes focusing on the lives of at-risk youth.

The CYD has expanded collaborative relationships to include community based foundations in order to provide the CYD with community contacts and access to settings throughout Miami (e.g., halfway houses, schools, detention centers) necessary to conduct rigorous health-related re-search among at-risk youth. These links to the community, via these foundations and its intervention programming, will provide opportunities for training hundreds of FIU students each year, actively involving them in reducing social problems among urban youth. As FIU students acquire research and service experiences via community outreach, students: a) become invested in the well-being of local communities; b) make more continuous transitions to work following college; and, c) serve as a network of continuing contacts between FIU and local communities.

For more information, call (305) 348-3341, or write to Dr. Lilly M. Langer, Director, Center for Youth Development, University Park DM 217, Miami, Florida 33199. Email: langerl@fiu.edu

Institute on Children and Families at Risk

The Institute on Children and Families at Risk was established by the School of Social Work at Florida International University in 1991. The Institute promotes research, demonstration projects, training, and technical assistance to address the needs of children, youth, families, and the social networks and systems that support them and with an emphasis on prevention, and intervention research, the Institute also designs and evaluates improvements in 'helping' technologies for all service systems supporting at-risk children, families and communities for culturally responsive services.

Emphasizing partnerships at the local, state and national level, the Institute collaborates with a number of institutions, organizations and sectors to promote technology transfer, joint demonstration projects and capacity-building efforts. Special emphasis is on the link between universities, public sector social health services and public schools. The Institute provides consulting services both nationally and internationally with a focus on the training and technology transfer between states and nations on techniques and strategies to better organize services and supports for at-risk children, families and communities.

The Institute also serves as the research and development arm of the School of Social Work and provides research opportunities for master's and doctoral-level students. Its cross-systems endeavors also depend on the leadership and expertise of faculty and
students in other disciplines at Florida International University, at several other universities in the South Florida area and the staff of the State of Florida's Department of Health and Rehabilitative Services staff.

Drinking Water Research Center

The Drinking Water Research Center (DWRC) was established by the Florida Legislature in 1977, and charged with the responsibility for applied research on the state's drinking water. Since that time, the Center has responded to state, national and global environmental concerns by expanding its research focus to cover a wide spectrum of water-related environmental issues.

The research activities of the DWRC includes the following:

Water Treatment-evaluating treatment processes; evaluating alternative disinfectants and their effect on water quality; researching the use of high energy electrons in water, wastewater and hazardous waste treatment.

Surface Water Quality-studying treatment of domestic, industrial and hazardous wastes since improper disposal can affect surface water quality.

Ground Water Quality-studying ground water movement; investigating water management modeling of the Everglades Basin.

Marine Environment-oil spill shoreline protection and counter measures.

The DWRC conducts training and educational seminars and workshops in the area of water treatment, new methods for water analysis, and drinking water regulations. Qualified students often have opportunities to work as research assistants in the DWRC laboratories or carry out independent research projects. Cooperation and interchange with other departments in the University is stressed.

The Center is part of the College of Engineering EAS 2330, (305) 348-2826.

Center of Economic Research and Education

The Center of Economic Research and Education is a Type II Center approved by the Board of Regents of the State University System. The purpose of the Center is to foster a greater understanding of economics. The Center represents an important link between the University, business, and education communities. As part of its activities, the Center undertakes research projects, sponsors conferences and seminars, provides courses in economic education for teachers, and disseminates economic data and information.

Established in 1982 as one of eight centers located throughout the State University System, the Center is located in DM 319B, University Park. Its phone number is (305) 348-3283.

International Institute of Educational Development

The International Institute of Educational Development (IIED) is a multidisciplinary unit based in the College of Education whose mission includes: (1) planning, technical assistance, training and research in support of educational systems development internationally and (2) multi-institutional collaboration in educational development projects and research and (3) to support graduate programs in international and intercultural development education.

For more information call (305) 348-3418, or write to Dr. Miguel A. Escotet, Director, International Institute of Educational Development, College of Education, University Park Campus, Miami, Florida 33199. E-Mail: iide@fiu.edu

Institute for Workforce Competitiveness

The Institute for Workforce Competitiveness (IWC) was established by the College of Education in 1997, and designated as a Type III Institute by the Florida State University System's Board of Regents in 1997. Since that date, the IWC excelled in providing professional development activities, evaluation services, and technical assistance in support of workforce development initiatives to states, regions, local communities, and national territories.

The IWC mission is to improve workforce development and utilization through research, technical assistance, and partnership development, and utilizes five key research goals to guide project activities: 1. Provide reliable data and analysis contributing to the knowledge and literature base for workforce development, 2. Implement a dissemination strategy in which information on workforce development is provided to a wide range of audiences, 3. Provide information for the identification of appropriate progammatic outcomes and policy changes based on sound research and practices, 4. Conduct research studies that include all relevant academic disciplines in order to address complex workforce development and utilization issues and problems in schools, 5. Conduct research on workforce development initiatives in schools to determine impacts on student achievement and workforce competitiveness.

The Institute for Workforce Competitiveness is located in EAS 2611-14. For a additional information please visit the Institute's web site at www.fiu.edu/~ix wc or telephone (305) 348-6529.

Elders Institute

The Elders Institute, a continuing education unit within the Southeast Florida Center on Aging, serves the educational needs of senior adults at the University's North Campus. The Institute's mission and scope is to initiate, plan, design, and manage non-credit short courses, lectures, seminars, and workshops for older learners. Programs are offered during daytime hours, and are held primarily on campus. The courses offered are primarily in the humanities, the behavioral sciences and the social sciences. Workshops and seminars provide opportunities to develop new skills and to explore methods and means for personal growth and self-improvement. The Institute's instructional staff are community experts, University faculty and retired seniors. The participants are motivated learners who seek knowledge, new information and skills for intellectual stimulation and personal growth.

The Elders Institute at Coral Gables offers non-credit continuing education courses for older adults, in Spanish and English, at St. Mark's Lutheran church. The Institute is located at the Roz and Cal Kovens Conference Center 302, North Campus, (305) 919-5910.

English Language Institute

Since 1978, the English Language Institute (ELI) has offered non-credit English language instruction to non-native speakers of English in the community and from abroad.

Intensive English Program: Classes in reading, grammar, writing, and conversation are taught at six levels of proficiency. Language laboratory facilities are available in which students can increase their listening comprehension and speaking skills under the guidance of an instructor. Students normally take
a full, three-course load, but it is also possible for fully-admitted University students to take a course in a single skill.

Testing and Placement: The English Language Institute offers proficiency testing of both written and oral proficiency in English as a support service for academic units throughout the University. Evaluative procedures are designed to fit the needs of individual programs or schools, to assist them in the identification of individual students’ level of proficiency in English, and to place students in appropriate programs of study when needed. In addition, the Institute regularly administers the Test of English as a Foreign Language (TOEFL).

Community Outreach Program: The English Language Institute offers non-credit courses in the evening and on Saturday for non-native speakers of English.

Accent Reduction: Accent reduction classes are available for non-native speakers of English who have a good command of the language but who wish to improve their pronunciation.

Other Programs: Business English, Super Intensive (immersion), Summer Institute.

The English Language Institute is located in LC 204, University Park, (305) 348-2222.

The Family Business Institute

The Family Business Institute, a part of the College of Business Administration, was created to provide an ongoing series of small, personal, in-depth seminars focusing on challenges faced by mature family business owners, their families, and their non-family staff. Currently, the Center is inactive.

The Family Business Institute is located in the Ryder Business Building, BA 332, University Park Campus, (305) 348-4237.

FAU-FIU Joint Center for Environmental and Urban Problems

In response to environmental and urban issues, the Florida Legislature established the Joint Center for Environmental and Urban problems at Florida International University and Florida Atlantic University in 1972. In many years since then, the Joint Center has been involved in the formulation of most of Florida’s growth management laws and policies.

The Joint Center is an applied research center that conducts studies on urban and environmental issues and provides public service to government agencies and non-profit organizations. The Joint Center’s FIU Office specializes in economic development, urban revitalization, community development, housing, and growth management in South Florida. It is dedicated to conducting high-quality interdisciplinary research and facilitating collegiate cooperation among FIU and FAU faculty and researchers.

Since 1998, the Joint Center’s FIU Office moved to downtown Miami and is located in the new Metropolitan Center (150 SE 2nd Avenue, Suite 1201, Miami, Florida 33131). It established a new collaborative relationship with the College of Urban and Public Affairs that allows the Center shared resources with the College’s Metropolitan Center. This arrangement also brings faculty specializing in urban policy, program evaluation and economic development to the Center’s project. The FIU Office is staffed by an associate director and several doctoral research associates.

Research and Services

Research at the Joint Center’s FIU Office focuses on economic development, inner-city revitalization, and other growth management issues. The Joint Center is committed to assisting government agencies and community based organizations in formulating their planning and development programs. Recent clients included the Florida Department of Community Affairs, Miami-Dade Metropolitan Planning Organization, City of Florida City, Miami-Dade Transit Agency, and the South Florida Housing and the Community Development Coalition.

Working with the Metropolitan Center, the Joint Center’s FIU Office just completed a project on transportation needs in welfare reform. It also participates in the federally funded Community Outreach Partnership Center program to provide technical assistance to community development corporations in Miami-Dade. It also entered into an agreement with the South Florida Housing and Community Development Coalition to develop land and economic study of the 79th Street Neighborhood Initiative. Currently, the FIU Office just started a GIS project on welfare-to-work with the Miami-Dade Metropolitan Planning Organization. It is also developing a project with the Lincoln Institute to examine the Community Councils under a two-tier zoning system in Miami-Dade.

Because of the shift of focus toward economic development and urban revitalization, the Joint Center’s FIU Office discontinued its internship program with the South African Institute of Twon and Regional Planners. Instead, internship is established for local students who are interested in economic development.

Future Aerospace Science and Technology Center for Cryoelectronics (FAST)

FAST is one of five centers created by the Air Force as part of its minority university enhancement program, providing research experience opportunities for undergraduate and graduate students in the area of Electrical Engineering.

The FAST Center evaluates novel applications of space-based cryoelectronics, initially studying new systems for reduction in losses of feed and phase shift networks in phased array transmitter systems. This involves development of low-loss active integrated low-noise phased array or post-processed phased array down-converter receiving systems, high gain-low loss, low noise micro (and later millimeter) wave circuits and systems for space based applications. Of particular interest is the ability to design and fabricate integrated systems which could be used as “steerable” phased array antennas with, some frequency-agility as well.

Current research is focused on issues relating to: integration and heteroepitaxy of the buffer and dielectric layer with the GaAs semiconductor and 123 high Tc superconductor layers; obtaining good ohmic GaAs contacts at low temperatures, tailoring the surface morphology of the high Tc superconductor to achieve a designed Q value for the passive elements, package design and testing with respect to microwave and thermal cycling consideration, and the identification and minimization of noise sources.

The FIU Institute of Government

Since 1982, the Institute of Government, as part of the College of Urban and Public Affairs has provided training, technical assistance, consulting services, policy forums and
executive leadership development programs to municipal, county, and state administrators, staff members, appointees, and elected officials in Dade, Monroe, and Broward Counties. This program draws the university together with the community in which it resides, and couples ideas and skills from many disciplines with working governments.

The Institute is primarily funded through a state grant with the Florida Institute of Government located in Tallahassee. There are 15 Institutes of Government affiliated with state universities and community colleges around the state.

Upon request, the Institute develops and delivers specialized training for governmental units to address specific needs they have identified. The training is developed in consultation with the clients and can be delivered at their site or at the University. The Institute offers a workshop series for career development for governmental staff as well.

The Institute also holds conferences and workshops as a forum for community discussion about and analysis of policy issues of concern to local governments and state departments in the South Florida area.

Technical assistance and applied research services are also provided for a wide variety of units and divisions within state and local governments. Issues which may be addressed include public management, public policy analysis, and service delivery systems.

The Institute and the Department of Public Administration conducts the Executive Development Program for mid-level career public and voluntary sector managers. This certificate program emphasizes problem solving and decision making in government and the voluntary sector, personal growth, career development and state of the art management tools. Community and government leaders as well as FIU faculty serve as Adjunct Faculty in the Program and participate in panel discussions relating to the aforementioned topics. Participants in the program are also linked with upper-level public administrators and elected officials to provide personal and professional growth and mentoring.

The Institute arranges technical assistance and consulting services when governments feel they would benefit from outside support. They might, for example, be seeking to solve an internal problem, to gather and analyze research data pertinent to their operation, or to carry out an evaluation of some segment or all of their operation.

Topics in the past have included “Right-Sizing Government”, “The Homeless Problem”, “Decision Making in the Aftermath of Hurricane Andrew”, and “Florida Sunshine Laws”.

The Institute holds conferences and workshops as a forum for community discussion about and analysis of policy issues of concern to local governments in the South Florida area.

The Institute develops and carries out executive leadership development through a number of programs, such as, the annual Executive Leadership Development Mentoring Program. This program links upper-level public administrators and elected officials with less-experienced administrators and officials, in a year-long program starting each fall, to provide personal and professional growth for each individual.

Recently, (1997), the Institute also created the Academy for Strategic Management which focuses on training high level senior managers in strategic planning, benchmarking, performance measurement, contract management, etc. Over 150 upper level managers have already gone through the program.

Finally, the Institute sponsors a certificate program for Community Oriented Policing largely taken by law enforcement officials.

**High Performance Database Research Center (HPDRC)**

HPDRC Mission Statement
The High Performance Database Research Center (HPDRC) conducts research on database management systems and various applications, leading to the development of new types of database systems and the refinement of existing database systems.

The HPDRC, a research division of the Florida International University School of Computer Science, has a strong commitment to training graduate students and preparing them for their future roles as scholars and specialists employed by industry.

Government agencies and industry fund the HPDRC. At $4 million, NASA currently provides the largest amount of money for the Center. Other sponsors include: National Science Foundation ($2.5M), U.S. Department of Defense (BMDO, ARO, USAF, and DISA), U.S. Department of the Interior, U.S. Information Agency, NATO, Florida Department of Commerce, Florida Department of Education and Industry.

**HPDRC Research Scope**
The HPDRC flagship project is a highly parallel database system based on the semantic/object-oriented approach. Our system:
- provides exceptional usability and flexibility
- allows shorter application design and programming cycles
- gives the user control via an intuitive structure of information
- empowers the end-user to pose complex ad-hoc decision support queries
- provides superior efficiency through a high level of optimization transparent to the user
- allows a manifold reduction in storage size for many applications (such as Data Warehouses)
- is fully internet compatible

The Center also conducts research on such theoretical and applied issues as internet-distributed heterogeneous databases, database design methodology, database design tools, information analysis, multi-media database languages, data compression, spatial databases, and visualization.

In addition, the Center designs specific database systems for highly complex applications. We are presently developing database systems for the Everglades National Park and NASA that are intended for storage and processing of large amounts of earth science observations.

FIU's Regional Applications Center is a division of the HPDRC chartered by NASA for the purpose of data ingestion from satellites, enhancement of data, and distribution of data to users via internet queries and otherwise.

More information about HPDRC is available at the University Park Campus, ECS 243, (305) 348-1706. fax: (305) 348-1705, e-mail at hpdrc@cs.fiu.edu or visit our website at [http://hpdrc.cs.fiu.edu](http://hpdrc.cs.fiu.edu)

**Knight Ridder Center for Excellence in Management**
The Knight Ridder Center for Excellence in Management within Florida International University's College of Business Administration exists to identify and promote best business management practices among its students, faculty, and alumni, and...
among the international academic, business, and professional communities it serves.

The Center develops academic programs focusing on enterprise development within the global economy. It coordinates the College's Global (e) MBA program, an executive MBA program for managers in the Americas that emphasizes an interdisciplinary curriculum, a global perspective, project implementation, and adding value to the enterprise. It also is a web-based program, combining Internet course delivery and 5 residency sessions in Miami. In addition, the Center sponsors seminars and conferences that address topics related to excellence in management.

The Center sponsors and promotes faculty development and research in the area of management excellence and best practices and provides funding for some of this research through its summer grant program.

The Center's service and outreach activities include business seminars, executive roundtables, and consulting.

The Center is located in the Ryder Business Building, University Park Campus, (305) 348-3131.

**Children and Families Professional Development Center**

The Children and Families Professional Development Center (PDC) at FIU is responsible for providing the staff of the Florida Department of Children and Families, Division of Family Safety and Preservation, with a functional knowledge and practical skills base for working with children and families. Located on the North Campus, the PDC is staffed by a credentialed and experienced group of instructors who provide training to child protection workers throughout a geographical area that extends from Vero Beach to Key West.

The PDC provides the entry-level foundations of child protection knowledge and skills to ensure that new staff have basic competencies in the practices, policies, and procedures that are essential to the Family Safety and Preservation program. In addition, the PDC offers specialty inservice training to develop and increase competencies for experienced Children and Families staff as well as the staff of private providers of child protection services. The overarching goal of the PDC is to enable all providers of services to children and families to make better casework decisions that result in improved outcomes for the citizens of Florida.

**Hemispheric Center for Environmental Technology (HCET)**

The Hemispheric Center for Environmental Technology (HCET) was established by Florida International University and the United States Department of Energy to research, develop, and demonstrate innovative environmental technologies and to establish international alliances to facilitate the implementation of these technologies.

HCET's research and development (R&D) activities focus on the decontamination and decommissioning (D&D) of nuclear facilities and the management and reduction of radioactive and hazardous wastes. These R&D activities support the Department of Energy-Environmental Management (DOE-EM) programs in the areas of waste characterization, monitoring, and sensor technology; underground storage tank remediation; and decontamination and decommissioning.

HCET's vision is to become a model bridging institute in the Western Hemisphere for the diffusion of environmental technologies that promote mutual economic benefit and sustainable development in the United States, Latin America, and the Caribbean. HCET's mission is to develop and market technologies to solve environmental problems and foster sustainable development throughout the Americas. To achieve this end, HCET performs research and development, gathers and disseminates market and technology assessment data, facilitates technology transfer, and forms partnerships with industries and governments throughout the Americas. HCET targets its technology transfer capabilities to environmental technology development organizations and industrial users of environmental technologies.

The foundation for HCET's technological capabilities has successfully been built within Florida International University's College of Engineering. HCET has the capability and resources to develop innovative technologies as well as assess and demonstrate technologies that have been developed or modified both in-house and by other vendors. HCET also has the expertise to comparatively evaluate emerging technologies and pursue, organize, and facilitate technology transfer from suppliers to consumers.

HCET is equipped with state-of-the-art equipment and machinery to carry out its project goals. HCET's facilities include:

- Open-Air Technology Assessment Site for conducting large-scale technology assessments.
- Hazardous Materials Laboratory housing state-of-the-art rheology equipment, with the capacity to perform specialized analytical and engineering activities.
- Fully-equipped Analytical Laboratory to define the chemistry and characterization of waste tank forms, evaluate contaminants in groundwater and soil, and monitor air quality levels.
- Computational Fluid Dynamics facilities applying CFD techniques for modeling and analyzing the fluid flow and heat transfer in engineering systems.
- Fabrication Shop capable of performing lathe operations, two dimensional CNC milling, precision drilling and cutting, welding and woodworking.
- Experimental Facilities for characterization, monitoring, and sensor technology allowing low and high temperature study, single and two-phase flow, heat transfer and phase change, as well as sintering.

HCET recently opened an office in Oak Ridge, Tennessee, to pursue new research and development opportunities in legacy waste management, materials recycling, and site reutilization.

**International Forensic Research Institute (IFRI)**

The International Forensic Research Institute (IFRI) was established at Florida International University (FIU) by the State University System (SUS) of Florida Board of Regents (BOR) in 1997 to help serve law enforcement efforts in the application of scientific principles to the administration of justice. Dozens of IFRI-affiliated faculty conduct forensic research in various departments including Biology, Chemistry, Criminal Justice, Medical Laboratory Sciences, Physics, Political Science and Psychology. Additionally, IFRI has affiliations with research scientists from some of the world's foremost forensic science laboratories. Based out of the chemistry department, the institute administers an under-
graduate Forensic Science Certificate program and the first SUS BOR approved Master of Science in Forensic Science, an interdisciplinary graduate program with non-traditional course delivery available.

Research and training areas include arson/explosive residue analysis, detector dogs, driving impairment, environmental forensics, forensic DNA analysis/interpretation, forensic facial approximation, forensic toxicology, trace elemental analysis of forensic samples, courtroom persuasion, eyewitness identifications and recall, eyewitness testimony of children, jury selection and decision making, patterns in narcotics trafficking and substance abuse. Students working with the institute have access to state-of-the-art facilities and instrumentation including HPLC/MS, ICP/MS, pyrolysis GC/MS, SPME/GC/MS/MS, GRIM II, SPEs, CZE, environmental SEM, etc. For additional information, please write to IFRI, Department of Chemistry, FIU, University Park, Miami, Florida 33199, (305)-348-6211 or visit our web site at www.fiu.edu/~ifri

International Hurricane Center

The International Hurricane Center (IHC) is a Type I research center serving the State University System of Florida. Type I status was approved by the Board of Regents on March 15, 1996, and makes the IHC Florida’s official hurricane research center for the ten universities comprising the state system. The IHC is also designated as the formal liaison for NOAA’s Tropical Prediction Center (also known as the National Hurricane Center) located on the University Park campus.

The IHC promotes an inter and multi-disciplinary research mission focused on mitigation of hurricane damage to people, the economy, and the built and natural environments. The IHC’s large-scale research agenda includes topics in diverse disciplines such as engineering, architecture, sociology, psychology, anthropology, urban planning, economics, business, finance, insurance, environmental science and public health, among others. Research opportunities for interested graduate level students exist in most of the areas previously cited.

For more information, contact the IHC at (305) 348-1607 or visit our website at http://www.fiu.edu/orgs/IHC

The International Media Center

The International Media Center is a non-for-profit research and training arm of the School of Journalism and Mass Communication (SJMC) at Florida International University. The IMC was authorized by the Florida Board of Regents to encourage and assist SJMC faculty in research and training projects; administer SJMC grants and contracts, and to encourage student and faculty participation in international efforts to strengthen the free press in the democracies of the modern world.

The IMC office in Miami operates several international programs designed to strengthen professional communication media in Latin America and elsewhere. The IMC provides mid-career training for journalists, provides technical assistance for public sector entities to improve media relations, activity promotes press freedom issues worldwide and helps journalists and other combat corruption in the public and private sectors.

The Latin American Journalism Program, a $13.5 million, 10 year project funded by the US Agency for International Development to strengthen journalism in 11 Latin American countries, was managed by IMC personnel. More than 6,500 journalists received short-term or long-term training under the LAJP. The program had a major impact on the quality of journalism in Central America and has been credited with playing a substantial role in strengthening journalist ethics throughout the region. IMC serves as consultant for the Centro Latinoamericano de Periodismo, or Latin American Journalism Center, in Panama City, Panama, which IMC managers founded in 1995.

Purpose of the IMC

The purpose of the IMC is to strengthen the free flow of information through education, training, and research. Most of the IMC activities are focused on Latin America because of the IMC location in Miami. But the IMC is capable of working in almost any part of the world. All of the program’s training, education, research and technical assistance activities are based on the professional standards of the free press operating separately from and independent of the state in the democracies of the modern world. The IMC conducts programs aimed at strengthening the professionalism of journalism, public relations and public information services in Latin America and elsewhere. Charles H. Green is the director of the IMC. He reports to J. Arthur Heise, Dean of the School of Journalism and Mass Communication. The IMC staff has many years of professional media experience and a decade of experience in providing top-quality adult education and in managing multi-million dollar projects. Our in-house expertise is supplemented by an impressive stable of academics and professionals ready to undertake assignments in a variety of languages.

Advisory Board

While the IMC does not have a regular board of directors it does have a special advisory board appointed by the dean of the School of Journalism and Mass Communication. The purpose of this board is to advise the dean and the IMC director on center activities. Members of the advisory board are Patricia Rose, chair of the Department of Public Relations and Advertising, Donald Snied, chair of the Department of Journalism and Broadcasting, Kevin Hall, director of the SJMC Writing Project and professor of journalism, and Bill Adams, professor of public relations.

Notable Activities

The Latin American Journalism Program, which operated from 1988 until 1998, offered more than 550 seminars, workshops and other training activities for more than 6,500 participants with more than 60,000 training days. The program encouraged journalists, journalism educators and media owners to make a critical examination of the role of a free and independent press. The IMC publishes the widest-read journalism review in the Spanish language, Pulso del periodismo. Pulso carries articles on journalists and news media. The electronic edition of Pulso del periodismo can be found at http://www.pulso.org/. The electronic magazine, funded in part by a grant from the McCormick Tribune Foundation of Chicago, keeps Spanish-speaking journalists abreast of freedom of the press issues with stories written by the journalists themselves.

The Centro Latinoamericano de Periodismo (CELAP) opened in Panama City in 1995 as the self-sufficient heir to the Latin American Journalism Program, serves as the training arm of the International Media Center in Latin America. The center offers workshops and seminars for groups of journalists and conducts in-newsroom training for newspapers,
radio and television stations. The Panama center was part of the Latin American Journalism Program but became independent on April 1, 1997. I. Roberto Eisenmann Jr., founder and former president of the newspaper La Prensa in Panama city, is the chairman of the center’s board of directors.

The IMC organized the “Premios Proceper” journalism awards which became as important in Central America as the Pulitzer Prize awards to journalists in the United States. The Latin American Journalism Center in Panama now manages these annual awards.

The IMC organizes workshops on how journalists can use investigative reporting techniques to combat corruption in the public and private sectors. In 1997 the IMC organized the first Latin American Journalism Congress and is one of the co-sponsors of the 1999 congress in San Juan, Puerto Rico. The center organized the first conference of the Global Public Affairs Institute.

In 1998-99 the IMC undertook a year-long project in El Salvador to help members of the country’s judicial sector better understand the news media, develop public awareness campaigns and improve its press offices. Training included workshops for supreme court judges, the federal attorney general, the justice minister and other high-level members of the judicial sector as well as for those who work in judicial sector press offices. The project included helping the sector leaders design a public awareness campaign regarding new criminal codes in El Salvador.

The IMC publishes the Hispanic Media Directory of the Americas, a unique directory of all Spanish language news media in the Western Hemisphere.

Center Staff
Charles H. Green, a member of the journalism faculty, is the director of the IMC. He was a foreign correspondent and news executive with the Associated Press for 24 years. He was chief of bureau for the AP in Mexico City, Caracas, Albany, N.Y. and Detroit. Green has written about Latin America since 1964 and managed the Latin American Journalism Program, where he organized or supervised more than 550 seminars for journalists and supervised four major assessments of journalism faculty since 1986. He was distinguished editor-in-residence at the Michigan State University school of journalism before joining FIU. His foreign languages include Spanish, Italian, some Creole and Portuguese. He frequently lectures or leads workshops in Latin America on election campaign coverage, civic journalism and computer assisted reporting. Green has organized and led professional development seminars in Mexico, Haiti, Jamaica, the Bahamas, Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, Panama, Venezuela, Columbia, Ecuador, Peru, Bolivia, Argentina, Chile and Paraguay.

John Virtue, another member of the journalism faculty, is IMC’s deputy director. Virtue joined FIU from the Miami News in 1989. He is publisher of PULSO del Periodismo, the IMC’s journalism review distributed worldwide on the Internet. He is the publisher of the Program’s Central American media directory. Virtue is also the publisher of the Hispanic Media Directory of the Americas. He is the Lead instructor of the media center’s ethics classes and seminars. Virtue was editor of Caribbean Business, San Juan, Puerto Rico (1987-88), Executive editor of El Mundo, San Juan, Puerto Rico (1982-87) and a foreign correspondent and bureau manager with United Press International in Montreal, Ottawa, New York, Sao Paulo, Caracas and Mexico City (1957-81). His foreign languages include Spanish and Portuguese.

Institute of Judaic Studies
The Institute of Judaic Studies (UIS) brings the University and the community together in a mutual effort to nurture teaching and research in academic areas which stand as the cornerstones of Western Civilization. Contemporary issues and problems provide focal points for study, dialogue, exchange and travel.

The objective of the Institute is to infuse Jewish content into the curriculum of the University at all appropriate levels. The Institute fosters scholarship and inquiry into Jewish themes leading to the development of course offerings within existing academic departments. For more information, call (305) 348-1862.

Center for Labor Research and Studies
The Center for Labor Research and Studies, established in 1971 is the only labor center in Florida and one of the most dynamic in the nation. It serves students, faculty and administrators throughout the State University System as well as labor, business, community organizations, academics, policy makers, and journalists, nationally and internationally, through a series of diverse activities.

Accredited through the University and College Labor Education Association (UCLEA), the Center is one of 51 accredited labor centers in the United States. Its broad mission is to provide services to workers and their organizations. This broad mission translates into three specific objectives: 1) provide comprehensive, statewide labor education service; 2) provide programs designed to support faculty research in labor relations, the changing nature of work, and labor education issues; and 3) offer a multidisciplinary credit and non-credit curriculum in labor studies at the University.

As a Type I Center of the Florida State University System, the CLR&S has major responsibility at the University for research and curriculum development on labor relations and the changing nature of work in Florida. This responsibility can be met, in part, by following the University’s mandate as described in its mission statement: [10] serve the broad community, with special concern for greater Miami and South Florida, enhancing the metropolitan area’s capacity to meet its cultural, economic, social and urban challenges.

Since it was founded, the CLR&S has become recognized for its innovative national and international non-credit education programs. These programs have educated labor and management participants in areas including labor relations, pension fund administration, dispute resolution, labor history, dynamics of worker participation and international labor issues.

The Center’s non-credit classes for Florida’s labor-management practitioners include open enrollment single courses, individualized courses for particular unions, as well as two certificate programs: the Workplace Issues Certificate and the Union Leadership Academy Certificate. The credit program, offered through the College of Arts and Sciences, includes a Bachelor’s Degree in Liberal Studies with a concentration in Labor Studies and two related Certificate programs.

The Center houses various projects which serve to carry out its research and training functions including non-credit programs and conferences, applied and theoretical research.
projects, and publications including Latin American Labor News, Labor Studies Forum, the quarterly newsletter, LEARN (Labor Education, Action and Research Network) and an Occasional Paper Series. In addition, two related institutes, the Immigration and Ethnicity Institute and the Human and Labor Rights Institute, are housed at the Center. The Center is located in the Labor Center building at the University Park Campus, (305) 348-2371, Fax: (305) 348-2241.

Latin American and Caribbean Center

The Latin American and Caribbean Center (LACC) promotes advanced education and research on Latin America and the Caribbean, a region of intense interest to the United States. It offers undergraduate and graduate certificate programs to both degree and non-degree seeking students, combines research in the social sciences and the humanities, promotes graduate and undergraduate instruction, and offers publications and public education activities that address the full range of issues affecting hemispheric relations.

LACC also offers a Master of Arts in Latin American and Caribbean Studies. This multidisciplinary master's program builds on FIU's strong and growing resources in area studies, most notably the more than 100 faculty members who are recognized nationally and internationally for their expertise on the region. LACC faculty span many disciplines, including: economics, environmental studies, history, international relations, modern languages, political science, and sociology/anthropology. For more information about the M.A. in Latin American and Caribbean Studies see the College of Arts and Sciences section in the Graduate Catalog.

Since it was founded in 1979, LACC has become one of the country's leading programs in contemporary Latin American and Caribbean studies. Through special seminars, colloquia, and other presentations sponsored by LACC, faculty and students have access to visiting scholars and other professionals with expertise on Latin American and Caribbean issues. Externally funded research programs support a continual flow of visiting Latin Americanists and Caribbeanists to the University. Through the external grants it receives, LACC contributes to the University's efforts to strengthen its Latin American and Caribbean studies library collection. LACC receives funding from state and federal sources as well as private foundations, among them, the Andrew Mellon, Tinker, Rockefeller, and Ford Foundations.

LACC itself houses several specialized institutes. These include the Cuban Research Institute (CRI), the only academic center in the United States devoted exclusively to the study of Cuba and Cuban-Americans. CRI offers a Cuban and Cuban-American studies certificate program for undergraduates that builds on the strength of institutional and community resources at FIU and the Greater Miami area. Also at LACC is the Intercultural Dance and Music Institute (INDAMI), which organizes regular seminars and performances by artists and scholars of the arts.

In June 1995, the Florida Legislature created, the Summit of the Americas Center (SOAC) to research, analyze, and monitor the accords of the Summit of the Americas, with special attention given to Florida's role in hemispheric trade and commerce. Located within LACC, SOAC is a cooperative venture among LACC, the University of Florida's Center for Latin American Studies, and the University of Miami's North-South Center.

The State legislature also created the Florida Caribbean Institute (FCI) and the Florida-Mexico Institute (FMI) to improve Florida's cultural, commercial, and educational ties with strategic regions. Both FMI and FCI administer competitive scholarship programs which allow students from Mexico and the Caribbean to attend any institution in the State University System or the Community College System at the in-state rate.

LACC regularly places students in foreign study programs and local internships. More information is available in DM 353 University Park, (305) 348-2894 or by visiting the LACC website at http://lacc.fiu.edu.

Lehman Center for Transportation Research (LCTR)

The Lehman Center for Transportation Research (LCTR) at Florida International University was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place for all of us. The center's vision is to become a strong "state-of-the-art" transportation research and training facility. LCTR is committed to serve and benefit our society by conducting research to improve mobility, hence the quality of life issues, develop partnerships in the transportation industry, and educate a multidisciplinary workforce to plan, manage and implement transportation systems.

Faculty, staff and students at LCTR are involved in research related to the planning design, and operation of transportation systems; public policy; air pollution; and the application of geographic information systems and other advanced technologies such as artificial neural networks and scientific visualization in transportation. Future plans include networking with the public and private industry to collaborate on transportation related research. In addition, applied research will be conducted, but not limited to intelligent vehicle and highway systems.

Center for Management Development

The Center for Management Development, a part of Florida International University's College of Business Administration, was established in 1979 to bring the College's resources and expertise to both local and international business communities. The Center's overriding goal is to increase the competitiveness of the organizations it serves.

The Center offers Certificate Programs in Human Resource Administration, Training and Human Resource Development, Project Management and Managing Quality Health Care Systems. The Center offers professional development seminars on topics like leadership, team building, and conflict resolution. It also provides contract training and customized, in-house training programs tailored to individual organizations' needs.

In addition, the Center serves as a clearinghouse and referral center for matching the College's resources to the particular management and human resources issues facing businesses and other organizations in the community.

The Center for Management Development is located in the Ryder Business Building, University Park Campus (305) 348-4237.
Manufacturing Research Center (MRC)

Based on the principles of concurrent engineering, the Manufacturing Research Center (MRC) is divided into two major labs and built to provide a seamless integration of computerized engineering tools for design (CAD), manufacturing (CAM), inspection (CM), and rapid prototyping (RP) for both mechanical and electronic product design and fabrication. With input from the MRC's Industrial Advisory Board, a broad range of software and hardware systems were carefully selected as offering the best tools to serve the industry. Silicon Graphics workstations are used as the backbone of the system, on which software and hardware systems communicate and share information within the MRC network and are connected to external systems through the internet. The MRC has two main laboratories: the Rapid Product Realization Laboratory and the Process Characterization Laboratory.

The Rapid Product Realization Laboratory consists of a design front end, a rapid prototyping center for both mechanical and electrical components, computer-driven manufacturing and a coordinate measuring machine to verify the components and feedback into the design process. The design center consists of seven SGI workstations and a server, with backup and additional computer support by the College's Engineering Information Center (EIC), having been designated a Silicon Works Solution Center by SGI. The design center allows design intent modeled in Pro-Engineer and analyzed with finite element analysis packages.

The Rapid Prototyping Center currently consists of a 3-D Systems 250-40 laser stereolithography system, using laser cross-linked polymer for part realization, a Stratasys fused object modeler using polymer extrusion, and a Helios Laser-Cutting layer object (paper, ceramic tape) cut-and-stack prototype system. Mechanical parts are fabricated with a Fadal VMC-15 Vertical Machining Center, a CNC turning center, a Hurco MK-2 EDM machine and a Handsvedt DS-2 traveling wire EDM. Production capabilities are enhanced by an Arburg 250-75 injection molding machine. A Brown & Sharpe coordinate measurement machine provides dimensioning analysis and geometry verification. It closes the loop from product design to prototyping and part manufacturing, allowing the evaluation and development of expert manufacturing systems. The Electronic Manufacturing Facility consists of an OZO automatic manufacturing robot that allows rapid manufacturing of printed circuit boards and high performance ceramic-based packages. The system also allows direct writing with both UV and optical photoplotters.

The Processes Characterization Laboratory. The manufacturing process laboratory is initially focused on injection molding processes, (including metal) with a research thrust developing in the area of rapid injection molding, using mold inserts fabricated by rapid prototyping processes. Additionally, investment casting processes with a focus on rapid prototyping, will be developed. The laboratory includes an Auberg injection molder, programmable process development furnaces (hydrogen, vacuum, inert air) up 1600°C, and a 190-ton press. The materials characterization lab consists of a field emission scanning electron microscope, a standard SEM (both with light element non-dispersive X-ray spectroscopy), a 200 keV transmission electron microscope with sample preparation capabilities (ion mill, dimpler, lapping fixtures), an X-ray diffractometer with 1600°C furnace, termal analysis (DSC, TGA, DMA, thermal expansion), mechanical testing (uniaxial and cyclic loading, creep), and sample preparation and inspection capabilities.

Training: The MRC and EIC regularly schedule training courses in Pro/E, visual C, and other industry-specific software at substantial discounts to our members and with flexible schedules. Course instructors typically come from industry, bringing real-life hands-on experiences to the class.

The MRC and Industry: The nearly 7000 manufacturers in the State of Florida, representing over 40%, reside in the tri-county area served by FIU, with the largest concentration in Miami-Dade county. However, without strong participation in the upgrading of manufacturing practices, many current manufacturers will become obsolete in the changing realities of the global economy of the 21st century. The primary objective of the MRC is to prepare manufacturing engineers for an era where enterprises will be mostly information-based and international in nature. Numerous new and more effective engineering data management tools, product development software, electronic cataloging and electronic commerce are rapidly emerging, speeding up the advent of “manufacturing over the Internet”.

Membership: The MRC provides the access for industry to utilize the capabilities and resources of the College of Engineering and its outstanding faculty. The cost of membership is a donation to the FIU Foundation, and therefore tax deductible.

For more information, contact http://www.eng.fiu.edu/MRC Dr. W. Kinzy Jones at (305) 348-2345 or Dr. Chin-Sheng Chen at (305) 348-3753.

Metropolitan Center

The Metropolitan Center is an urban research and technical assistance organization that supports city, county, and state governments, the private sector, not for profits and community organizations in South Florida. The overall goal of the Metropolitan Center is to provide the best possible information for decision-makers, community leaders, and citizens as they forge solutions for metropolitan problems. Toward that goal, the Metropolitan Center strives to bring together faculty, students, experts and other leaders from the community around issues and problems of critical concern to the South Florida metropolitan area.

The Metropolitan Center’s main services and resources include:

• The FIU Data Center, the only integrated economic development database in the region, specializing in business, employment, demographic, and other social data.

• Professional Training and Technical Assistance Programs.

• White Papers and Policy Forums on critical regional and urban issues.

• Legislative Research Services providing data and analysis to the Miami-Dade State Legislative Delegation on policy issues.

Created in 1998 as part of FIU’s “Quality Improvements” initiative, the Metropolitan Center is an umbrella organization that houses the Institute of Government, the Joint Center for Environment and Urban Problems, and the Dewey Knight Center for Public Service. By joining the efforts of these organizations, the Metropolitan Center brings to South Florida an extensive background of experience in urban and regional planning, growth management, economic development, natural resource management, community
development, public management, and financing.

The Metropolitan Center is located in downtown Miami at 150 SE 2nd Avenue, Suite 1201.

For more information call (305) 349-1251 or visit our web site at www.fiu.edu/~metcntr.

National Policy and Resource Center on Nutrition and Aging

**Vision:** reduce malnutrition and food insecurity and promote good nutritional practices among older adults.

**Mission:** work with the Federal Administration on Aging (AoA) and the USDA to provide national leadership in Aging, Nutrition Extension Networks; place food and nutrition services in the mainstream of home and community based social, health and long-term care delivery systems serving older individuals.

The Center helps Elderly Nutrition Programs, the cornerstone of the Older Americans Act, improve their food and nutrition services, use resources more effectively, and adapt to changes in demographics, health care and public policy. The Center assists the Aging Network that includes more than 2200 local nutrition projects serving congregate and home delivered meals, 57 state and territory agencies on aging, 227+ tribal organizations and 650+ area agencies on aging. The Center provides technical training and conducts policy analysis and best practices research. With the rapidly increasing numbers of frail, homebound older adults, the Center is dedicated to (1) risk-based screening to identify the most nutritionally needy, (2) expansion of food and nutrition services in health, extension and social service programs, and (3) integrating food and nutrition services into interdisciplinary care management to improve quality of life, promote independence, and decrease early nursing home admissions and hospitalizations. A new USDA-sponsored project will strengthen outreach in rural communities to reduce critical service gaps for at-risk elders.

Public/private partnerships enable the Center to work with programs, professionals, older individuals and caregivers to strengthen programmatic and personal commitments to food and nutrition as foundations for good health.

The Center can be reached at (305) 348-1517, fax (305) 438-1518, email: nutreldr@fiu.edu or online http://www.fiu.edu/~nutreldr. Nancy S. Wellman, PhD, RD, FADA, Director; Dian O. Weddle, PhD, RD, FADA, Co-Director.

**Institute for Public Management and Community Service**

The Institute for Public Management and Community Service was re-established by the College of Urban and Public Affairs at Florida International University in 1994. Since then, the Institute has had extensive involvement in governance reform projects in North, Central and South America as well as Africa, Eastern Europe and Asia. These projects have involved the Institute’s Director, Assistant Director and other staff in working with many national legislative bodies, several national chief executives and numerous government ministers. Institute projects have focused on issues of executive-legislative relations, legislative development, decentralization, civil service reform, the strengthening of local and other sub-national government and the promotion of citizen participation and governmental and political accountability. Particularly notable in this regard has been the work of the Institute in Paraguay where, through a USAID funded project, Institute personnel worked with national, departmental and local governments and grassroots communities in bringing about major governance reforms at all levels of Paraguayan society. In addition to its extensive technical assistance and consulting activities, the Institute has carried out a wide variety of research and training activities, both within and outside of the United States.

In its work in Paraguay, as well as in Argentina, Chile and Peru, Institute staff have worked very closely with the leadership of the government of Miami-Dade County in carrying out a wide variety of local government technical assistance and democratic development activities. The Institute continues its work with Miami-Dade County through its organization for the County each year of the annual Hemispheric Mayors Conference, which typically brings together 400 municipal leaders from throughout Latin America, the Caribbean and North America. This annual gathering has come to be recognized throughout the Hemisphere as the principal recurring meeting on issues of local governance in Latin America. In addition, the Institute has organized numerous conferences and seminars throughout the Hemisphere. It will also be serving as the secretariat for the 1999 annual conference of the National Association of Schools of Public Affairs and Administration meeting in Miami Beach and the 2000 annual conference of the International Association of Schools and Institutes of Administration in Beijing, China.

The Director of the Institute, Dr. Allan Rosenbaum, has worked in local, state and national government in the United States and has consulted extensively both within the United States and in most parts of the world and for the United Nations. He currently serves as Chairperson of the International Committee of the US-based National Association of School of Public Affairs and Administration. He has written extensively on issues of public administration, governance reform, democratization, decentralization and strengthening of local governance. Mrs. Cristina Rodriguez-Acosta, the Institute Deputy Director received her Bachelor’s degree from Universidad del Salvador in Argentina and a Master’s Degree from George-town University in the United States. A native of Argentina, Mrs. Rodriguez-Acosta has had considerable experience in various parts of Latin America and oversaw the Institute’s extensive activities in Paraguay.

**Institute for Public Opinion Research**

The Institute for Public Opinion Research (IPOR), is a research arm of the School of Journalism and Mass Communication at Florida International University. IPOR was founded in 1983 to provide decision makers with reliable and timely information on how a scientifically-selected sample of the public stands on important issues, and to enhance the dialogue on major issues among decision makers, the media, and the people of Florida. IPOR provides professional services in all aspects of survey research including study and sample design, questionnaire development, interviewing, data entry, data analysis, and report writing. IPOR is a member of national Network of State Polls (NNSP).

IPOR has just installed a brand new computer lab on the North Campus, with each of our 16 telephone survey stations connected to a network server.
Surveys can now be conducted through our computer assisted telephone interviewing (CATI) system. This allows us to program and conduct extremely complex surveys with elaborate skip patterns. It also allows us to instantly track marginals for survey questions, demographic balance in the sample and overall response rates at any time during the survey. Each station has a new computer with the power to run applications such as GIS as part of the interview process. All IPOR project personnel are well-paid professionals who are specially trained for each project and who are monitored for adherence to IPOR's procedures and guidelines. Our pool of interviewers include a number of Spanish/English bilingual speakers.

IPOR has conducted over 65 surveys, interviewing over 60,000 respondents. Survey populations have ranged from community to state-wide. Polls have been conducted for national, state, local, and community governments, scholars at FIU and other universities, and in conjunction with area newspapers. Survey types range from highly structured closed-ended interviews to unstructured open ended interviews.

One of IPOR's main projects is the annual FIU/Florida Poll, one of the most comprehensive public opinion surveys conducted in the country. The FIU/Florida Poll has been conducted every year since 1988. The poll asks Floridians how they feel about the important issues facing them-crime and drugs, education, transportation, health, taxes, politics, etc., and tracks these questions year after year to determine whether and how views are changing. The results are published in book form and have been cited by the media, the private sector, and government agencies throughout the state.

IPOR studies include five needs assessment surveys of the elderly in Florida or Miami-Dade County. Two of these surveys, one of Miami-Dade county elderly and the other of Florida's elderly population, are the most comprehensive surveys of their kind ever conducted, with the data providing critical information for planning the care of these groups into the next century. Other health related research conducted by IPOR include three cancer awareness and prevention/behavior surveys.

Major IPOR surveys that are helping inform critical policy and development decisions include: a survey of over 5,000 Miami-Dade County residents on the issues of service delivery and incorporation which has provided information critical to incorporation efforts of areas of unincorporated Miami-Dade County; two statewide surveys central to planning for the Florida transportation system on Floridians attitudes and behaviors regarding the state transportation system; two surveys on the effects of Hurricane Andrew that are being used to help disaster planning both locally and nationally; and two surveys of the residents of south Florida of their attitudes regarding police protection and crime that are helping guide the public safety planning in the region. Other surveys include a study to measure awareness, attitudes, and behavior regarding recycling; studies of drug abuse in the workplace, the school age population, and in the general population in Miami-Dade County; several studies measuring public attitudes on international issues including the war with Iraq, and U.S. policy toward the government in Cuba; and studies on parks and recreation, homelessness, taxation and spending, and labor issues.

IPOR is constantly working with new technology and data sources to develop and test new sampling and interviewing methodologies. Using new geographic information systems (GIS) technology, IPOR has worked with Miami-Dade County planners to provide a sampling strategy for a field study of Miami-Dade County elderly living in areas most affected by Hurricane Andrew, and with Federal Emergency Management Agency (FEMA) and Florida's Bureau of Economic and Business Research to collect, manage, and analyze data on the effects of Hurricane Andrew on the population of South Dade.

IPOR is located in ACII, Room 301. For more information call (305) 919-5778; fax (305) 919-5242, or send email to gladwin@servms.fiu.edu or visit our website at http://www.fiu.edu/orgs/ipor.

Institute for Public Policy and Citizenship Studies

The Institute for Public Policy and Citizenship Studies was founded in 1985 to offer students, faculty, and the community alternative learning opportunities in public policy and citizenship development. Four key objectives have guided the Institute's programs:

1. To provide non-traditional educational opportunities to the student body on the responsibilities and opportunities of citizenship.
2. To assist students and faculty in understanding the impact that public policy has on their daily lives and in their career pursuits.
3. To promote interdisciplinary research efforts among faculty on local and national policy matters.
4. To encourage joint university and community efforts on local policy issues.

The Institute sponsors the Student Honors Mentor Program, a semester-long opportunity for students to meet and interact with peers and faculty members from other academic disciplines. The Mentor Program encourages participants to examine a public policy issue in a small group setting through discussions, research, or innovative projects. In providing an alternative mode of learning, the Institute hopes to give students practical experience in community decision-making and problem-solving.

The Institute also sponsors and supports the annual Intergenerational Public Policy Summer Institute which teams elder civic activists with high school students, many of whom are at-risk.


The Institute also works in cooperation with other FIU centers, including the Women's Studies Center, The Center on Aging, The Labor Center, and The Latin American Caribbean Center.

In addition, the Institute sponsors conferences and events focusing on key policy issues that are salient within our local community. Nationally known speakers and University faculty are invited to present their research findings and perspectives on a variety of issues ranging from citizenship education in Miami-Dade County to the ethical implications of an aging
society to the impact of government regulations on the fishing industry. The conferences are designed to offer the public and university community additional resources in understanding the policy problems that we, as a community, face on a daily basis.

The Institute is located in LC 220, University Park, (305) 348-2977.

Ryder Center for Logistics

The Ryder Center for Logistics, housed in Florida International University’s College of Business Administration, exists to develop and promote academic, research, and continuing education programs in the field of logistics.

The College offers an undergraduate academic track in logistics supported through the Center that prepares graduates to pursue careers in a variety of fields within the spectrum of logistics—technology, strategy, transportation, globalization, integration and more. Its academic and faculty development activities include the design and construction of a virtual logistics technology demonstration laboratory.

The Center also sponsors and coordinates seminars, conferences, and outreach services for business and professional publics—both within and beyond the South Florida region—on logistics and enterprise resource planning (ERP).

The Center is located in the Ryder Business Building, University Park Campus, (305) 348-2751.

Southeast Florida Center on Aging

The Southeast Florida Center on Aging offers a multi-disciplinary program in gerontology with a unique public sector focus. It is the mission of the Center to serve as a focal point for applied public policy and practice research; to design and implement comprehensive gerontological education and training programs for students, professionals and older learners; and to demonstrate new and innovative concepts to serve older persons. The Center seeks to achieve its goals through a wide variety of educational activities designed to further the pursuit of knowledge and understanding about aging in today’s society, with particular emphasis upon the development, implementation, and evaluation of public policy in Florida, the United States, and throughout Latin America and the Caribbean.

Objectives: The Center supports, sponsors, conducts, and participates in a wide range of activities aimed at improving the quality of life for older people of South Florida. Pursuant to its mandate for education and training, research, and community service, the Center is engaged in:

1. Development of gerontology education across disciplines throughout the University community.
2. Expanded opportunities for training and professional development of persons working with or planning to work with older people.
3. Research with special emphasis on public policy and practice in the areas of long term care, justice systems and new roles and opportunities.
4. A wide range of lifelong learning and educational opportunities for older people.
5. Collaboration with public agencies and community organizations aimed at improving the effectiveness of programs for older people.

The Center consists of three components:

Research: Focus on applied policy and practice research, as well as promotion of research involving faculty from a variety of disciplines within the University. There is an emphasis on potential applications of research findings by policy makers and health and social services practitioners.

Education and Training: Coordination of credit and non-credit certificate programs for undergraduate and graduate students and for practitioners in the field of aging. The Center delivers training seminars and workshops both at the University and at locations throughout Southeast Florida.

The Elders Institute, a continuing education program, offers a broad array of continuing education courses for the older learner and is exploring development of additional educational and cultural opportunities for older persons.

Program Development and Technical Assistance: Design of innovative concepts and programs that further public policy objectives through expansion of opportunities for older people and improvement of the delivery of health and social services to them. The Center provides assistance and support for agencies and organizations serving older people throughout Florida and with new emphasis in Latin America and the Caribbean.

The Center is located in ACI 384, North Campus, (305) 919-5550.

Women’s Studies Center

The Women’s Studies Center, established in 1982, is a university program with a multipurpose mission that focuses on the development and coordination of academic women’s studies courses and the support of research on gender. In addition, the center coordinates extracurricular programming on gender issues for faculty, staff, students, and the general community.

The center offers a Bachelor of Arts degree in women’s studies, a certificate program, and courses as electives in most disciplines. The courses in women’s studies provide an opportunity for the study of the historical, political, economic, literary, social, and cultural roles of women and of the function of gender in diverse societies and cultures. The courses are coordinated through various university departments and are open to women and men alike, as a balance to traditional education. In Women’s Studies classes, students explore the range of women’s experiences, from their struggle for equality to their contributions in politics, history, literature, psychology, and other subjects. Through this rich discipline, sexual bias throughout society—in the workplace, in school, and at home—is analyzed through historical study and new theory. Equal importance is given to the commitment to discover and teach ideas and knowledge about global concerns, nationalities, race, ethnicity, class, age, and sexual identity. The program is directed toward specialists and generalists alike. Students should refer to the Arts and Sciences women’s studies section for degree and certificate details.

The center fosters faculty research in Women’s Studies through various means including a publications series; research seminars; lecture series; and conferences, such as an annual Women’s History Month Conference. In addition to coordinating academic courses and research in Women’s Studies, the program provides a place and opportunity for extracurricular activity. The center offers assistance on issues of inequality and access to information on gender issues and concerns. The resources of the center are used by the academic and general community, and everyone is welcome to visit or inquire about out services.

The center is located in DM 212, University Park, (305) 346-2408.
Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by fourteen participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and assigns the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Description of the content of courses are referred to as "course equivalency profiles."

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between the participating institutions that offer the course, with a few exceptions. (Exceptions are listed below).

For example, a survey course in social problems is offered by 31 different postsecondary institutions. Each institution uses "SYG-010" to identify its social problems course. The level code is the first digit and represents that year in which students normally take this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(17), Florida Administrative Code, reads:

When a student transfers among institutions that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

1. Courses in the __990-999 series
2. Internships, practical, clinical experiences, and study abroad courses
3. Performance or studio courses in Art, Dance, Theater, and Music
4. Skills courses in Criminal Justice
5. Graduate courses

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Lynette Housty in the Registrar's Office at (305) 348-2320, or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling telephone number (904) 488-6402 or Suncom 278-6402.
## Administration and Staff

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  - **Dean, Honors College:** Fernando Gonzalez-Reigosa
  - **Dean, School of Hospitality Management:** Joseph West
  - **Dean, School of Journalism and Mass Communication:** J. Arthur Heise
  - **Dean, College of Urban and Public Affairs:** Ronald M. Berkman

### Libraries
- **Executive Director:** Laurence A. Miller
- **Associate Director:** Antonie B. Downs
- **Assistant Director for Collection Development:** Salvador Miranda
- **Assistant Director, Reader Services:** Sherry Carrillo

### Centers and Institutes
- **Director, Center for Administration of Justice:** Luis Salas
- **Director, Center for Accounting, Auditing, and Tax Studies:** Felix Pomeranz
- **Director, Center for Advanced Technology and Education:** Malek Adjouadi
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- **Director, Center for Labor Research and Studies:** Guillermo J. Greiner
- **Director, Drinking Water Research Center:** Berrin Tansel
- **Director, Elders Institute:** Maria L. Fernandez

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Director, Purchasing Services  Judy Weech

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University Advancement
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Coordinator, Women’s Center  Karen Garner
University Ombudsman  Larry Lunsford

University Outreach
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Acting Associate Dean, University Outreach  Gwen Weinberger
Director, Distance Learning  Jeffrey Miller
Acting Director, Kovens Conference Center  Christian Pastner

Intercollegiate Athletics and Campus Recreation
Acting Director, Head Baseball Coach  Jose Sotolongo
Head Men’s Basketball Coach  Danny Price
Head Women’s Basketball Coach  Donnie Marsh
Head Cross Country/Track Coach  Cindy Russo
Head Women’s Golf Coach  Jessica Hudson
Head Men’s Soccer Coach  David Pezzino
Head Women’s Soccer Coach  Karl Kremer
Head Softball Coach  Everton Edwards
Head Volleyball Coach  Kim Gwydir
Head Women’s Tennis Coach  Ronnie Reis-Bernstein
Head Field Hockey Coach  Dulcie “Cookie” Stevens

Associate Athletic Director, Marketing and Promotion  Jose Sotolongo
Assistant Athletic Director, Campus Recreation  Rob Frye
Assistant Athletic Director, Student Fitness  TBA
Assistant Athletic Director, Compliance  Rich Kelch
Assistant Athletic Director, Media Relations  Steve Sauls

University Relations
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Assistant Vice President, University Relations and Director, Publications  Terry Withers
Executive Assistant to the Vice President  Ann Goodrich
Director, Government Relations  Richard Candia
Acting Director, Media Relations  Maydel Santana-Bravo
Director, Communications  Todd Ellenberg
Director, Community Relations  Shebah Carfagna
Assistant Director, Federal Relations  Mercy Viana
School of Architecture
School of Architecture

the time they begin their thesis semester.

Admission to the Master of Architecture Program is determined by an extensive portfolio review that examines evidence of creative work, academic success, and professional achievement. Students who have successfully completed the portfolio review process must meet the minimum requirements of an undergraduate GPA of 3.0 or a GRE score of 1000 (or better) to be fully admitted in the graduate program.

Program will include:
Graduate Design
Studios 24 credits
History/Theory of Architecture 6 credits
Technologies (structures, systems, computers) 9 credits
Professional Practice 6 credits
Directed Electives 15 credits
The student has a choice of a thesis or a final graduate design studio.

Master of Landscape Architecture

The Graduate Program in Landscape Architecture prepares students for research and practice while focusing on the management, planning, and design of tropical and subtropical landscapes. The unique natural and cultural environments of South Florida, tropical America, the Bahamas, and the Antilles provide firsthand experience of a wide range of landscapes; the study, enrichment, and preservation of which are emphasized through relevant course work, field trips, and service activities. The Everglades and Biscayne National Parks, Fairchild Tropical Garden, and Vizcaya Palace and Gardens are among the many regional resources readily available to students enrolled in the Program. The School of Architecture also offers study and research opportunities in cooperation with institutions in tropical America and Mediterranean Europe.

A flexible curriculum accommodates individual research interests within a rigorous academic framework. The School offers two options in the Landscape Architecture Graduate Program. The Professional Degree Option is intended for individuals with an undergraduate degree in a major other than a design discipline, or with a preprofessional undergraduate degree in a planning or design discipline. This course of study leading to the first professional Master of Landscape Architecture degree is accredited by the Landscape Architectural Accreditation Board, an autonomous committee, of the American Society of Landscape Architects. The Post-Professional Degree Option is intended for individuals with an undergraduate degree in landscape architecture.

Professional Degree Option

Individuals with a Bachelor of Arts or a Bachelor of Science, or equivalent, from an accredited institution are eligible for admission to the Program provided University requirements are met. Applicants must also submit a portfolio of creative work for School review in the admission process. Three years of full-time study in residence are normally required. However, a part-time study option is available subject to the review of the Program. Satisfactory completion of 84 credits in the following course of study is required.

Landscapes 6
History and theory 6
Methods 6
Management, Planning, and Design 30
Construction 9
Practice 9
Research and specialization 12
Electives 6

Individuals with an undergraduate degree in planning, urban design, or architecture from an accredited professional program, or with a preprofessional undergraduate degree in planning, landscape architecture, urban design, or architecture may be granted advanced standing, not to exceed 24 credits for undergraduate courses with a grade of 3.0 or better on a 4.0 point scale.

Individuals with a graduate degree in planning, urban design, or architecture from an accredited professional program may be granted advanced standing, not to exceed 48 credits for graduate courses with a grade of 3.0 or better on a 4.0 point scale.

Post-Professional Degree Option

Individuals with an undergraduate degree in landscape architecture from an accredited professional program are eligible for admission to the Program. Two years of full-time study in residency are normally required.
Course Descriptions

Definition of Prefixes
ARC-Architecture; INP-Interior Design; LAA-Landscape Architecture
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ARC 5035 Film and the Architecture of Modern Life (3). Critical overview of social and spatial implications of film on architecture and design over the course of the 20th century.

ARC 5075 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in architecture.

ARC 5176C Computer Practices in Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. (SS)

ARC 5205 Advanced Design Theories (3). This seminar analyzes western and non-western examples of critical ideology through the investigation of key historical moments and current architectural theory and practice.

ARC 5xxx Legal Aspects of Design Practice (3). Special obligations and privileges of a design professional, common contract forms, issues of liability, copyright, insurances and general organization and supervision. Ethics and legal responsibilities.

ARC 5xxx Building Systems (3). Conceptual framework for design of building assemblies, understanding of construction technologies and properties of building materials. Building systems and pre engineered components are presented and analyzed.

ARC 5361 Graduate Design 1 (6). Exploration of highly articulated projects of small scale utilizing innovative research methods to strengthen and clarify design concepts taken to a detailed resolution. Prerequisite: Graduate standing.

ARC 5362 Graduate Design 2 (6). This course explores architectural projects of medium to large scale applying innovative building technologies to a highly resolved spatial organization. Prerequisite: Graduate standing.

ARC 5750 Architectural History of the Americas (3). Historical analysis of the development of built forms and styles in tropical and subtropical Americas, investigating its socio-political and artistic context. Prerequisite: Permission of the instructor.

ARC 5786 Urbanism: Social History of the Built Form (3). This course introduces students to historical analysis, theories, techniques and aesthetics as they relate to urban design.

ARC 5803 Preservation Architecture: Issues and Practices (3). This course explores issues and practices of architectural preservation as an integral concern of architecture.

ARC 5xxx Site Development in Architecture (3). Issues, controls and methods pertinent to the physiographic, topographical, and cultural determinants of site design in architecture.

ARC 5xxx Environmental Systems in Architecture (3). Development of an understanding of environmentally sensitive design. Climate and region as a major determinant of building design; sustainability, energy conservation, passive solar design, daylight and natural ventilation will be examined.

ARC 5xxx Alternative Studio (6). Topical studies in architecture, on issues of current interest, with the participation of visiting lecturers, or abroad. (SS)

ARC 5916 Innovations in Building Technology (3). Experimental approach to new materials and methods applicable to the field of construction. Prerequisite: Permission of the instructor. (SS)

ARC 5933 Special Topics in Architecture (1-3). Course to address current special topics of interest developed in cooperation with private or public sector, building or professional associations. Prerequisite: Permission of the academic advisor.

ARC 6296 Professional Development (3). In-depth exploration of current legal, administrative and financial aspects of architectural practice.

ARC 6356 Graduate Design 3 (6). Architectural project emphasizing design development preparation of details and design documents for buildings of intermediate complexity.

ARC 6906 Independent Study (1-6). Independent study will allow students to pursue a specialized area of study under individual faculty supervision. Prerequisite: Permission of the instructor.

ARC 6910 Thesis Seminar (3). This course requires students to propose a thesis, arrange a thesis committee and conduct research prior to the thesis.
term. Prerequisite: Graduate Design I & 2.

ARC 6930 Graduate Seminar (1-3). Topical seminar designed especially for direction by visiting professionals or visiting faculty from other disciplines. Prerequisite: Permission of the instructor.

ARC 6947 Research Methods in Architecture (3). Advanced research methodology in design fields focusing on data acquisition, analysis and interpretation. Presentation formats, statistical analysis, and hands-on experience. Prerequisite: Graduate standing and permission of the instructor.

ARC 6xx Thesis (6). Supervised graduate research and writing of a thesis on an architectural topic to be chosen by student with the approval of a graduate committee.

LAA 5233 Theory of Planting Design (3). Study of principles and methods related to the ecological, functional, and aesthetic use of vegetation in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5235 Theory of Landscape Architecture (3). Critical review of the environmental parameters, morphological concepts and ideological principles that generate form and meaning in landscape architecture. Prerequisite: Program approval. (S)

LAA 5243 Regional Landscape Issues (3). Exploration of the landscape as cultural construct of social, economic, and scientific values relevant to regional issues of land use and management. Prerequisite: Program approval. (SS)

LAA 5335 Landscape Development (3). Technical aspects of the design of earthwork; and of the specification of materials, products, and methods of installation used in landscape development. Prerequisite: LAA 5653. (F)

LAA 5371 Computer Practices in Landscape Architecture (3). Computer applications of graphics, modeling, and animation techniques used in landscape architecture. Prerequisites: LAA 5653. (SS)

LAA 5424 Landscape Construction (3). Technical aspects of the design of sitework; and of the specification of materials, products, and methods of installation used in landscape construction. Prerequisite: LAA 5335. (S)

LAA 5425 Landscape Construction Documentation (3). Production of landscape construction documents, including drawings and project manual with bidding documents, contract documents and technical specifications on the computer. Prerequisite: LAA 5371 and LAA 5424. (F)

LAA 5521 Tropical Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical regions. Prerequisite: Program approval. (SS)

LAA 5540 Landscape Horticulture (3). Overview of horticultural management practices related to the growth, transport, installation, and maintenance of vegetative materials used in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5562 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5652 Site Studio (6). Application of landscape architecture principles and methods to site design in tropical and subtropical contexts. Prerequisite: LAA 5652. (S)

LAA 5715 History and Theory of Architecture (3). Overview of the history and theory of architecture and urban design from antiquity to the present. Prerequisite: Program approval. (SS)

LAA 5716 History of Landscape Architecture (3). Historical survey of the principal sites and traditions manifested in the evolution of landscape architecture and urban design from antiquity to the present. Prerequisite: Program approval. (F)

LAA 6215 Professional Practice in Landscape Architecture (3). Study of the ethical, legal, financial, and managerial aspects of professional practice in landscape architecture. Prerequisite: LAA 5424. (S)

LAA 6222 Communications in Landscape Architecture (3). Methods of verbal and graphic presentations, workshops, and publications used in landscape architecture. Prerequisite: Program approval. (SS)

LAA 6245 Theory of Urban Design (3). Critical review of the principal theories of urbanism that have influenced the fabric and image of the city in Western history. Prerequisite: LAA 5235 and LAA 5716. (SS)

LAA 6246 Typology of Landscape Architecture (3). Critical examination of the origin, development and transformation of form and meaning in modern and postmodern landscape architecture and urban design. Prerequisite: LAA 5235 and LAA 5716. (SS)

LAA 6247 Modern Landscape Architecture (3). Critical review of the origins and development of modern and post modern expressions in landscape architecture. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6342 Landscape Aesthetics (3). Critical review of the assessment models used to evaluate the aesthetic quality of the landscape. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6373 Sound in Landscape Architecture (3). An examination of the ecological, acoustic, aesthetic, and historical aspects of the sonic environment. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6382 Methods of Environmental Analysis (3). Theories and methods of the organization, analysis, and interpretation of cartographic data using digital geographic information systems. Prerequisites: LAA 5521. (SS)

LAA 6541 South Florida Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical Florida. Prerequisite: LAA 5521. (S)

LAA 6551 Sustainable Landscapes (3). Study of the principles that sustain a balance between natural resources and human aspirations in the landscapes of tropical and subtropical regions. Prerequisite: LAA 6541. (SS)

LAA 6654 Community Studio (6). Application of landscape architecture principles and methods to community planning and design in tropical and subtropical contexts. Prerequisite: LAA 5653. (F)

LAA 6655 Regional Studio (6). Application of landscape architecture principles and methods to regional management, planning, and design in tropical and subtropical contexts. Prerequisite: LAA 6654. (S)

LAA 6745 Preservation of Landscape Architecture (3). Critical examination of the formation and preservation of historic sites with em-
phasis on interpretation, analysis and evaluation of cultural landscapes and urban places. Prerequisite: LAA 5235 and LAA 5716. (SS)

LAA 6835 Urban Studio (6). Application of interdisciplinary principles and methods to urban planning and design in tropical and subtropical contexts. Prerequisite: LAA 6655. (F)

LAA 6905 Independent Study (1-3). Work under the direction of faculty on a particular aspect of landscape architecture. Prerequisite: LAA 6916. (F,S)

LAA 6915 Supervised Research (1-5). Work under the supervision of faculty in preparation for a master’s thesis or a master’s project in landscape architecture. Prerequisite: LAA 6916. (F,S)

LAA 6916 Research Methods (3). Methods of information search, data interpretation, and hypothesis formulation used in landscape architecture research. Prerequisite: Program approval. (F)

LAA 6935 Graduate Seminars (1-3). Course to address topical issues in landscape architecture. Prerequisite: Program approval. (F,S,SS)

LAA 6936 Special Topics (1-3). Course to address topics not yet offered in the landscape architecture curriculum. Prerequisite: Program approval. (F,S,SS)

LAA 6970 Master’s Project (6). Completion of project by candidate for the degree of Master of Landscape Architecture. Prerequisite: LAA 6915. (S)

LAA 6971 Master’s Thesis (6). Completion of thesis by candidate for the degree of Master of Landscape Architecture. Prerequisites: LAA 6915. (S)
School of Architecture

Dean
William G. McMinn

Associate Dean
Jaime Canaves

Faculty

Andia, Alfredo, Mdes, Ph.D.
(University of California-Berkeley), Assistant Professor, Architecture

Baker, Ted, FASLA, MLA, MDes,
(Harvard University), Associate Professor, Landscape Architecture, Director for Research

Belcher, Nathaniel, M.Arch, A.I.A.
(Harvard University), Assistant Professor

Brug-Chmielenska, Manita, Dip.LA
(University of Edinburgh), Visiting Assistant Professor, Landscape Architecture

Bueno, J.A., MLA, ASLA, PE
(Harvard University), Associate Professor, Director, Landscape Architecture

Busch, Claudia, M.S. (Columbia University), Assistant Professor, Architecture

Canaves, Jaime, AIA, M.Arch
(University of Florida), Associate Professor, Architecture and Associate Dean

Canaves, Marta, MLA, IIDA
(Florida International University), Assistant Professor, Acting Director, Interior Design

Crouthamel, Paula, ASLA, MLA,
(Florida International University) Visiting Assistant Professor
Landscape Architecture

Gonzalez, Rene, M.Arch. (University of California-Los Angeles), Assistant Professor, Architecture

Kneski, John, Assoc. AIA, M.Arch II
(Syracuse University), Visiting Assistant Professor, Architecture Coordinator, School of Architecture

Lopez-Mata, Gisela, M.S. (Pratt Institute), Associate Professor

Majzub, Iraj E., D.Arch., R.A.
(University of Torino), Professor, Architecture

McMinn, William G., FAIA, M.A.
(University of Texas), Dean and Professor, Architecture

Nepomechie, Marlys, AIA, M.Arch, R.A. (Massachusetts Institute of Technology), Assistant Professor Architecture

Quintana, Nicholas, NCARB
(University of Havana), Visiting Professor, Architecture

Rosales, Camilo, M.Arch., R.A.
(Harvard University), Associate Professor, Director, Architecture

Stuart, John A., M.Arch, R.A.
(Columbia University), Associate Professor

Valbuena, Mario, M. Arch
(Texas A & M University), Visiting Assistant Professor, Architecture
College of Arts and Sciences
The College of Arts and Sciences furthers the study of fundamental intellectual disciplines, and serves the University’s other Colleges and Schools. The College grants Bachelor’s, Master’s, and Ph.D. degrees. In addition, the College serves students who need to complete general education and core curriculum requirements, and other requirements, in order to enroll in specific disciplines or professional programs.

The College is composed of 19 departments, in addition to the School of Computer Science, the School of Music and several interdisciplinary programs.

Graduate Programs
The College has academic programs leading to Master’s degrees in African-New World Studies, biology, chemistry, comparative sociology, computer science, creative writing, economics, English, environmental studies, environmental and urban systems (offered jointly with the College of Engineering and Design), forensic science, geology, history, international studies, Latin American and Caribbean studies, linguistics, mathematical sciences, music, music education, music education-modified master’s, physics, political science, psychology, religious studies, Spanish, statistics, and visual arts.

The College offers academic programs leading to the Ph.D. in biology, chemistry, computer science, economics, geology, history, international relations, physics, political science, psychology, comparative sociology and Spanish.

Graduate Admission Requirements
The following requirements are in addition to the University’s Graduate Admission Requirements. These are minimal requirements. Please consult the specific graduate program, which may have higher requirements.

1. A 3.0 or higher GPA during the last two years as an upper division student or a minimum total score (quantitative plus verbal) of 1,000 on the GRE for the Master’s degree. A 3.0 or higher GPA or a GRE verbal and quantitative of 1100 or higher are required for the Ph.D. degree. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 500 score of higher.

2. The GRE or GPA stated above are only minimum requirements. All applications are reviewed by the Graduate Studies Admission Committee, which makes the final admissions decisions. Since admission to the program is competitive, the committee’s requirements are normally higher than the minimum aforementioned standards.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University’s various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.
African-New World Studies

Core ANWS Graduate Faculty
Jean Rahier, Associate Professor, Sociology/Anthropology and African-New World Studies, Director of the African-New World Studies Graduate Program
Kingsley Banya, Professor, College of Education
Pascale Becel, Associate Professor, Modern Languages
Elizabeth Bergmann, Professor, Theatre and Dance
Ken Boodhoo, Associate Professor, International Relations
Carole Boyce Davies, Professor, English and African-New World Studies
Jean-Robert Cadely, Assistant Professor, Modern Languages and African-New World Studies
Isabel Castellanos, Professor, Modern Languages
John Clark, Associate Professor, International Relations
Mohamed Farouk, Associate Professor, College of Education
Steve Fjellman, Professor, Sociology/Anthropology
Christopher Gray, Assistant Professor, History
Ivelaw L. Griffith, Associate Professor, Political Science
Tomem Hopkins, Associate Professor, English
Alexander Lichtenstein, Associate Professor, History
Marcia Magnus, Associate Professor, Dietetics and Nutrition
Anthony Maingot, Professor, Sociology/Anthropology
Andrea Mantell-Seidel, Associate Professor, Theatre and Dance
Roderick Paul Neumann, Associate Professor, International Relations
Valerie Patterson, Instructor, College of Health and Urban Affairs
Terry Rey, Assistant Professor, Religious Studies
Linda Strong-Leek, Assistant Professor, English
Clarence Taylor, Professor, History and African-New World Studies
Juan Torres-Pou, Assistant Professor, Modern Languages
Linda Spears-Bunton, Associate Professor, College of Education
Alex Stepick III, Professor, Sociology/Anthropology
S. Lee Woods, Professor, College of Education

Other faculty not identified above will be considered CORE ANWS Faculty

based on research, identified interest and publications. Students can take courses for credit from other ANWS Affiliated Faculty after approval of syllabus by graduate director.

Master of Arts in African-New World Studies

The Master of Arts in African-New World Studies provides interdisciplinary, graduate level training with three areas of emphasis: 1. Pedagogy of the African Diaspora, 2. National and transnational policy analysis, and 3. Cultural studies. This Master of Arts develops scholars with specific skills, research methodologies, principles, and knowledge which will lead to professional positions in a range of fields as it simultaneously prepares them for further study at the doctoral level. The Master of Arts in African-New World Studies is international in orientation, as such, its geographic reach is Africa, the Caribbean, North and South America, Europe and Asia. Therefore, conceptually, it embraces the African Diaspora. FIU provides one of the few truly international, multi-disciplinary M.A. models among African Studies programs, departments and centers nationally. As such, the M.A. in African-New World Studies is organized to develop research interests and models, advance knowledge, and develop interactive and comparative relationships with similar programs which pursue the life, cultural and social formations, economics, education, language, expressive and performing arts, governmental and other institutional systems, of people of African descent wherever they exist. The M.A. in African-New World Studies provides students with some specific skills, knowledge and resources to:

1. Work in specific programs and units related to African communities in Africa, Latin America, the Caribbean, the United States, Europe, Asia, international organizations, multicultural curriculum development and teaching and other educational contexts; race and social and public policy; journalism and other diverse fields.

2. Prepare students to use and develop theoretical, analytical, and methodological approaches to critical issues such as those pertaining to race and ethnicity in all their manifestations; development and under-development; technology; relations of domination and power; environmental policies, health and wellness; issues of self-determination and mutual cooperation, and all aspects of aesthetic/creative expression.

3. Create new knowledge through research and close study of relevant communities and disseminate this knowledge to the various communities we serve.

4. Understand and confront the unique socioeconomic problems facing communities of Africa and the African Diaspora; Incorporate into an intellectual and research agenda theoretical and analytical frameworks that focus on a) "Resistance and Struggle," b) "Nationalities and National/Post National Identities," e) "Migration and Identity/Geographical Repositioning," d) "History, Culture, Performative and Expressive Modes," and e) "Schooling, Pedagogical Exigencies, Instructional Practices, and Educational Policies."

Admission Requirements

Each applicant to the African New World Graduate Program must complete a graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Record Exam (GRE) and TOEFL (if applicable) to the FIU's Office of Admissions. Each applicant should also send a separate letter of application to the Director of the African-New World Graduate Program, along with copies of the above material. The letter of application should include a statement expressing the applicant's academic and professional objectives and the choice of the applicant for enrollment in either one of the three areas of specialization. Applicant's are strongly encouraged to include examples of academic or other relevant professional work that may support their application. Applicants must request two letters of recommendation from professors able to comment on their academic ability. The letters of recommendation should be sent directly to the Director of the African-New World Graduate Program.

The application file must be complete before the African-New World Studies Graduate Committee will consider the applicant for admission. The deadline for receipt of application—including all supporting
materials and letters of recommendation is March 15th. To be admitted into the African-New World Studies Graduate Program, a student must meet the University’s graduate admission requirements which can be found in Florida International University’s Graduate Catalog and the following minimum standards.

A. Applicants must have a baccalaureate degree from an accredited college or university.

B. Applicants must have an undergraduate grade point average (GPA) of 3.0 or higher and a combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE). Applicants must submit both grade transcripts and GRE scores for consideration. The student must also have a GPA of 3.5 on any previous graduate work.

C. Applicants should request that two letters of recommendation from individuals able to judge a student’s academic potential be sent directly to the Director of the African-New World Studies Graduate Program: African-New World Studies, Florida International University, Academic One-162, 3000 North East 151st Street, North Miami, Florida 33181.

D. Applicants are encouraged to submit examples of written work and other supporting materials.

E. Applicants whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

Financial Aid

Each academic year a limited number of graduate students are hired as teaching assistants. Teaching assistantships are allocated on a competitive basis and typically pay a substantial portion of tuition expenses and provide a stipend. To be considered for an assistantship, the applicant must make such a request in writing to the Graduate Program Director. The awarding of teaching assistantships will be made by the Graduate Program Committee. Students receiving an assistantship are required to perform approximately 20 hours of teaching related duties per week and are required to participate in a one-hour seminar related to teaching.

Graduation Requirements

Candidates must obtain a grade of B or higher in all courses and achieve a cumulative average of at least 3.0 (based on a 4.0 scale) and present a satisfactory internship (with research paper) or community project (with research paper) or thesis. A Thesis committee or an Internship/Community Project committee composed of at least two FIU faculty will guide the student through successful completion of the thesis or internship (with research paper) or community project (with research paper).

The FIU faculty eligible to serve in a Thesis, Internship or Community Project committee are the faculty members whose names appear in the list of "African-New World Studies Core M.A. Faculty" presented above. Other faculty not identified in that list will be considered "Core Faculty" based on research, identified interest, and publications (see the Graduate Director).

Before the end of a student’s first year in the program, he/she should form a thesis or internship or community project committee. This committee will consist of a Committee Chairperson and two additional committee members. The Committee Chairperson and one other committee member must be "Core Faculty" of the African-New World Studies Program. The remaining committee member will generally be a faculty member at FIU, although with the approval of the Committee Chairperson and the Graduate Program Director, the third member may come from outside the ANWS Program ("Core Faculty") or University.

Internships and community projects, as well as thesis research are usually performed during the first summer of enrollment in the program. Internships and Community Projects are options available only to students who specialize either in Pedagogy of the African Diaspora or in National and Transnational Policy Analysis. Students enrolled in the specialization in Cultural Studies must write a thesis. Internships and community projects are ALWAYS accompanied by a research paper. The thesis will be between 70 and 100 pages. This research paper linked to an internship or a community project generally will be between 25 and 50 pages. The student may use original data if she or he and the Committee Chairperson consider it appropriate. However, a thesis or research paper may be based on secondary sources or on library research. In any case it will be based on scholarly sources defined by particular disciplines. While thesis and research papers need not be based on original data collected by the student, they must be rigorous and original. By rigorous, we mean that the thesis/research paper must be tightly argued and logical, well written and well organized. By original, we mean that the thesis cannot simply summarize the arguments or work of others. It must have the student’s unique interpretation, which should be cogent—given the data under consideration.

Required Credits for all Specializations

Three (3) credits [core course], six (6) credits of thesis/research project or community project or internship and twenty-seven (27) credits selected according to one’s specialization. (See below for specifics for specialization requirements).

Total: 36 credit hours.

Core Course (For all specializations)

AFA 5xxx African-New World Studies: Theory and Methods Graduate Seminar

(offer every Fall semester)

Language Requirement (For all specializations)

Students will be asked to demonstrate proficiency in a language according to the nature of their internship or thesis/research project or community project, and professional interests. Credit hours earned in meeting language requirement will not count towards the 36 credit hours required for the degree.

Specializations

I. Pedagogy of the African Diaspora

(Liaison: Linda Spears-Bunton, College of Education)

This specialization addresses the need for multi-cultural education with a specific emphasis on training personnel to be knowledgeable about Africa Diaspora materials. The national and international rise of multi-cultural studies and interests in the area of education makes this program marketable to a range of educational interests. Targeted as well to meet the needs of teacher training in light of the Florida State Legislation (233.061) which mandates the teaching of African American history across the curriculum, our students will be
prepared to play leadership roles in the development of an international consciousness—of educational contexts, facilities, curricula, inside and outside of the United States. This specialization will help students teach and develop instructional materials in the area of urban education as well as for other students of different ethnicities; facilitate transmission of pedagogical materials on the African Diaspora; and develop cross and intra-cultural methodologies. Students must display cultural and linguistic fluency. Students in this specialization may participate in an Internship with an appropriate institution/organization that will culminate in a Research Project for 6 credit hours.

**Required Courses (6 credit hours)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 5xxx</td>
<td>Teachers’ Institute Pedagogy of the African Diaspora: Literacy, Culture, Race &amp; Gender Issues</td>
</tr>
<tr>
<td>AFA 6325</td>
<td>Pedagogy of the African Diaspora: Literacy, Culture, Race &amp; Gender Issues</td>
</tr>
</tbody>
</table>

Students must take three courses (9 credit hours) from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5820</td>
<td>Latin American Education</td>
</tr>
<tr>
<td>EDF 5821</td>
<td>African Educational Systems: A Comparative Approach</td>
</tr>
<tr>
<td>EDF 5881</td>
<td>Foundations of Bilingual Education</td>
</tr>
<tr>
<td>LAE 5465</td>
<td>Adolescent Literature</td>
</tr>
<tr>
<td>LAE 5466</td>
<td>Multicultural Perspectives in Language &amp; Literature</td>
</tr>
<tr>
<td>LAE 6925</td>
<td>Special Topics in English/Education</td>
</tr>
<tr>
<td>LIN 5603</td>
<td>Language Planning: Linguistic Minority Issues</td>
</tr>
<tr>
<td>SSE 6394</td>
<td>Social Studies in Other Nations</td>
</tr>
<tr>
<td>SSE 6925</td>
<td>Workshop in Social Studies Education</td>
</tr>
</tbody>
</table>

From the list below, students must take four courses (12 credit hours). Students may take no more than one course in one given discipline.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFH 5905</td>
<td>Readings in African History</td>
</tr>
<tr>
<td>AFH 5935</td>
<td>Topics in African History</td>
</tr>
<tr>
<td>ANT 6319</td>
<td>The African Diaspora: Anthropological Perspectives</td>
</tr>
<tr>
<td>INR 5086</td>
<td>Islam in International Relations</td>
</tr>
<tr>
<td>SYD 6705</td>
<td>Race and Ethnicity</td>
</tr>
<tr>
<td>LIT 6934</td>
<td>Black Literature &amp; Cultural Theory</td>
</tr>
<tr>
<td>SPN 5536</td>
<td>Afro-Cuban Culture</td>
</tr>
<tr>
<td>SPW 6775</td>
<td>Literature of the Spanish Caribbean</td>
</tr>
<tr>
<td>LIN 5934</td>
<td>Pidgins and Creoles</td>
</tr>
<tr>
<td>AFA 6xxx</td>
<td>The Cultural Body of the Americas: Critical Issues in Intercultural Understanding</td>
</tr>
<tr>
<td>AFA 6xxx</td>
<td>Expressive Art and Culture of the African Diaspora</td>
</tr>
<tr>
<td>AFA 5xxx</td>
<td>Latin American and Caribbean Dance and Culture</td>
</tr>
<tr>
<td>HAI 5xxx</td>
<td>Hait Language and Culture</td>
</tr>
<tr>
<td>HIS 6xxx</td>
<td>History of the African Diaspora</td>
</tr>
<tr>
<td>REL 5xxx</td>
<td>African Spirituality</td>
</tr>
<tr>
<td>REL 5xxx</td>
<td>Rasta, Voodoo, Santeria</td>
</tr>
<tr>
<td>HIS 5xxx</td>
<td>African-American History</td>
</tr>
<tr>
<td>LIT 5487</td>
<td>Major African-American Writers</td>
</tr>
<tr>
<td>LIT 6xxx</td>
<td>African Diaspora Women Writers</td>
</tr>
<tr>
<td>ANT 5xxx</td>
<td>Representation of Africa in Films</td>
</tr>
<tr>
<td>ANT 5xxx</td>
<td>Cultures of the Caribbean</td>
</tr>
<tr>
<td>HIS 6xxx</td>
<td>Caribbean Intellectual History</td>
</tr>
</tbody>
</table>

**II. National and Transnational Policy Analysis**

**Liaison – Valerie Patterson, College of Health and Urban Affairs**

Courses will focus on the examination and analysis of national and transnational policies relevant to African people in Black urban and rural communities, national and international contexts. Emphasis will be placed on a) training Black leadership for governmental and non-governmental agencies; b) the development of economic policies, competencies, structures, and strategies for economic development; c) the examination of environmental issues, health policies, wellness and a variety of community practices; and d) the evaluation of current policies that affect Black communities internationally. Students in this specialization may participate in an Internship with an appropriate institution/organization that will culminate in a Research Project for 6 credit hours.

**Required Courses (6 credit hours)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYA 6305</td>
<td>Research Methods I and a New Course—Transnational Policy Analysis: Africa and the Diaspora</td>
</tr>
</tbody>
</table>

**Recommended**

A. Students with a Public Policy Orientation (offered every year—economics background):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6053</td>
<td>Political, Social &amp; Economic Context of Public Administration</td>
</tr>
<tr>
<td>URS 6028</td>
<td>Policy Analysis &amp; Program Planning</td>
</tr>
</tbody>
</table>

B. Students with a Business Orientation (we recommend the parallel International Business Certificate)

Students must take four courses (12 credit hours) from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 5325</td>
<td>Politics of the Caribbean</td>
</tr>
<tr>
<td>CPO 6206</td>
<td>Seminar in African Politics</td>
</tr>
<tr>
<td>INR 5087</td>
<td>Ethnicity and the Politics of Development</td>
</tr>
<tr>
<td>INR 5255</td>
<td>Seminar in African Development</td>
</tr>
<tr>
<td>INR 5607</td>
<td>International Relations and Development</td>
</tr>
<tr>
<td>INR 6056</td>
<td>Environment and Development</td>
</tr>
<tr>
<td>INR 6089</td>
<td>International Relations and Human Rights</td>
</tr>
<tr>
<td>SYD 6705</td>
<td>Comparative Analysis of Ethnicity and Race</td>
</tr>
<tr>
<td>SYD 6236</td>
<td>International Migration and Refugees</td>
</tr>
<tr>
<td>SYP 5447</td>
<td>Sociology of International Development</td>
</tr>
<tr>
<td>SYP 6306</td>
<td>Comparative Social Movements</td>
</tr>
</tbody>
</table>

Students must take two courses (6 credit hours) from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFH 5905</td>
<td>Readings in African History</td>
</tr>
<tr>
<td>AFH 5935</td>
<td>Topics in African History</td>
</tr>
<tr>
<td>AFH 6915</td>
<td>Research in African History</td>
</tr>
<tr>
<td>ANT 6319</td>
<td>The African Diaspora: Anthropological Perspectives</td>
</tr>
<tr>
<td>INR 5086</td>
<td>Islam in International Relations</td>
</tr>
<tr>
<td>LAH 6915</td>
<td>Research in Latin American History</td>
</tr>
<tr>
<td>LIT 5487</td>
<td>Black Literature &amp; Cultural Theory</td>
</tr>
<tr>
<td>SPN 5536</td>
<td>Afro-Cuban Culture</td>
</tr>
<tr>
<td>SPW 6775</td>
<td>Literature of the Spanish Caribbean</td>
</tr>
<tr>
<td>SYD 6705</td>
<td>Race and Ethnicity</td>
</tr>
</tbody>
</table>

**III. Cultural Studies**

**Liaison – Jean Rahier, Department of Sociology/Anthropology, African-New World Studies**

Students working in this area will be exposed to the study, research, practice
and performance, and analysis of cultural formations in the African Diaspora. Interdisciplinary in structure, fields such as dance, music literature, art, cinema studies, language, science, and other related areas will be studied. Students will critically analyze issues of a) colonialism, global imperialism, and capitalism and their effects on Africans and peoples of African descent internationally, and b) strategies, traditions and methods of resistance to the same. Courses will involve comparative studies of African communities in Africa, the United States, the Caribbean, Latin America, and Europe, and other areas of the African Diaspora will be examined; critical reading of cultural manifestations, identities, and practices; analysis of dynamics between traditions and social transformations.

**Required Courses (6 credit hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 6319</td>
<td>The African Diaspora: Anthropological Perspectives</td>
</tr>
<tr>
<td>LIT 5487</td>
<td>Black Literature and Cultural Theory</td>
</tr>
</tbody>
</table>

Students must take four courses (12 credit hours) from the list below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 5536</td>
<td>Afro-Cuban Culture</td>
</tr>
<tr>
<td>SPN 5537</td>
<td>Special Topics in Afro-Hispanic Culture</td>
</tr>
<tr>
<td>LIN 5934</td>
<td>Pidgins and Creoles</td>
</tr>
<tr>
<td>EDG 5707</td>
<td>Cultural and Cross-Cultural Studies</td>
</tr>
<tr>
<td>SYD 6705</td>
<td>Race and Ethnicity</td>
</tr>
<tr>
<td>AFA 6xxx</td>
<td>The Cultural Body of the Americas: Critical Issues in Intercultural Understanding</td>
</tr>
<tr>
<td>AFA 6xxx</td>
<td>Expressive Art and Culture of the African Diaspora</td>
</tr>
<tr>
<td>AFA 5xxx</td>
<td>Latin American and Caribbean Dance and Culture</td>
</tr>
<tr>
<td>HAI 5xxx</td>
<td>Haiti, Language and Culture</td>
</tr>
<tr>
<td>HIS 6xxx</td>
<td>History of the African Diaspora</td>
</tr>
<tr>
<td>LIT 6xxx</td>
<td>African Diaspora Women Writers</td>
</tr>
<tr>
<td>ANT 5xxx</td>
<td>Cultures of the Caribbean</td>
</tr>
<tr>
<td>HIS 6xxx</td>
<td>Caribbean Intellectual History</td>
</tr>
</tbody>
</table>

From the list below, students must take three courses (9 credit hours). Students may take no more than one course in one given discipline, including one course taken from the list above that the student has not already taken.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 5xxx</td>
<td>African Spirituality</td>
</tr>
<tr>
<td>REL 5384</td>
<td>Rasta, Voodoo, Santeria</td>
</tr>
<tr>
<td>ANT 5xxx</td>
<td>Representation of Africa in Films</td>
</tr>
<tr>
<td>HIS 5xxx</td>
<td>African-American History</td>
</tr>
<tr>
<td>LIT 5487</td>
<td>Major African-American Writers</td>
</tr>
<tr>
<td>AFH 5905</td>
<td>Readings in African History</td>
</tr>
</tbody>
</table>
Graduate Catalog

Biological Sciences

John Makenson, Professor and Interim Chairperson
James Allen, Assistant Professor
Victor Apanius, Assistant Professor
Brad Bennett, Associate Professor
Charles Bigger, Associate Professor
Richard Campbell, Research Scientist
Chun-Ian Chen, Associate Professor
Dan Childers, Associate Professor
Tim Collins, Assistant Professor
Keith Condon, Assistant Professor
Leon A. Cuervo, Professor
Maureen Donnelly, Associate Professor
Kelsey Downum, Professor and Associate Dean for Research
James Fourniquen, Associate Professor
Javier Francisco-Ortega, Assistant Professor
Robert M. George, Lecturer
Walter M. Goldberg, Professor
Jack B. Fisher, Research Scientist
Rene J. Herrera, Associate Professor
Ronald D. Jones, Professor
Christopher Kernan, Research Scientist
Suzanne Koptur, Professor
Lidia Kos, Assistant Professor
David N. Kuhn, Associate Professor, Graduate Program Director, and Associate Chairperson
David W. Lee, Professor
Kalai Mathee, Assistant Professor
Steven F. Oberbauer, Professor
Case K. Okubo, Associate Professor and Undergraduate Program Director
Thomas R. Pitzer, Instructor and Teaching Assistant Coordinator
Thomas E. Piskie, Lecturer
Jennifer Richards, Professor
Laurie L. Richardson, Associate Professor
Barbra A. Roller, Lecturer
Philip Stoddard, Associate Professor
Martin L. Tracey, Professor
Joel Trexler, Associate Professor, Graduate Program Director and Associate Chairperson
Ophelia I. Weeks, Associate Professor
Scott Zona, Research Scientist

Master of Science in Biology

To be admitted into the Master’s degree program in Biology, a student must:

1. Hold a Bachelor’s degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program or a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam.
3. Two letters of recommendation of the student’s academic potential.
4. Be accepted by a faculty sponsor.
5. Receive approval from the Departmental Graduate Committee.
6. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

Degree Requirements

The Master of Science in Biology consists of a minimum 36 credits, including a thesis based upon the student’s original research. A maximum of six credits of post-baccalaureate course work may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6457</td>
<td>Introduction to Biological Research</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5931</td>
<td>Thesis Proposal Seminar 1</td>
<td>4</td>
</tr>
<tr>
<td>BSC 5975</td>
<td>Thesis Defense Seminar 1</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6971</td>
<td>Master’s Thesis 1</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Foreign language competency 1

Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate techniques courses (minimum of three separate courses).

2 To be taken after qualifying exam is passed.

3 These must include at least 16 credits of courses in the Department of Biological Sciences. No more than six credits can be transferred from another graduate program, subject to the approval of the Graduate Committee. At least six credits must be at the 5000- or 6000-level (excluding thesis credits). Credits taken at the 4000-level beyond six, or at a lower levels, will not count toward graduation.

4 Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements

A grade of ‘C’ or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 36 credits, and a thesis must be completed and accepted after presentation to an ad hoc Thesis Committee chosen by the student’s Major professor.

Doctor of Philosophy in Biology

To be admitted into the Ph.D program in Biology, a student must:

1. Hold a Bachelor’s degree in a relevant discipline from an accredited college or university;
2. Have a 3.0 grade point average during the last two years of the undergraduate program or a Master’s degree in a relevant discipline;
3. Have a combined score (verbal and quantitative) of 1,000 on the general Graduate Record Exam (GRE)
4. Be sponsored by a Biology faculty member
5. Arrange to have three letters of recommendation sent to the Biology Program Director evaluating the applicant’s potential for graduate work
6. Receive approval from the Departmental Graduate Committee.
7. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

Degree Requirements

The Ph.D in Biology is conferred on individuals in recognition of their demonstrated ability to master a specific field of knowledge and to conduct significant independent, original research. A minimum of 90 semester credits of graduate work beyond the baccalaureate are required, including a dissertation based upon the student’s original research. A maximum of 36 credits may be transferred from another graduate program with the approval of the Advisory Committee.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 7981</td>
<td>Dissertation Proposal Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BSC 7982</td>
<td>Dissertation Defense Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BSC 5945</td>
<td>Supervised Teaching in Biology</td>
<td>2</td>
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Recommended course
BSC 6457 Intro to Biological Research 3

Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate courses (minimum of three separate courses).

No more than 36 credits may be transferred from another graduate program, subject to the approval of the Graduate Committee.

Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements
A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 90 credits; demonstration of foreign language competency, and a dissertation completed and accepted by the University.

Course Descriptions
Note: Laboratories should be taken concurrently with or subsequent to lectures. Students should register for each separately.

Definition of Prefixes
APB - Applied Biology; BCH - Biochemistry; BOT - Botany; BSC - Introductory Biology; MCB - Microbiology; OCB - Oceanography (Biological); PCB - Process Cell Biology; ZOO - Zoology.
F - Fall Semester offerings; S - Spring Semester offerings; SS - Summer Semester offerings

BCH 5134C Workshop in Chromatography Techniques (1). Workshop covers the theory and practice of chromatographic techniques to separate complex mixtures of biomolecules, including absorption, ion exchange, size exclusion and affinity chromatography. Prerequisite: Graduate status.

BCH 5411C Techniques in Molecular Evolution Research (5). Ribosomal genes from related organisms are amplified by polymerase chain reaction (PCR) and sequenced. Phylogenetic maps are made by computer from sequence data. Students may use material from their own research. Prerequisites: General Biochemistry BCH 3033 and Lab BCH 3033L, Molecular Biology PCB 4524 and Lab PCB 4524L or Graduate status.

BCH 6130C Workshop in DNA Synthesis and Amplification (1). Workshop in the chemical synthesis of DNA and the amplification of specific genes by the polymerase chain reaction (PCR). Students may synthesize DNA oligonucleotides for use in their own research. Prerequisite: Graduate status and Permission of the instructor.

BCH 6131C Workshop in Radioisotope Use and Safety (1). Workshop in the safe use of radioisotopes in biological and biochemical experimentation, labelling of biochemical compounds, purification of labelled compounds, and instrumentation involved in detection of radioisotopes. Prerequisite: Graduate status and Permission of the instructor.

BCH 6132C Workshop in Electrophoresis (1). Workshop in the application of electrophoresis to biochemical and genetic experimenta-tion. Students may use material from their own research in the laboratory section. Prerequisite: Graduate status and Permission of the instructor.

BCH 6133C Workshop in DNA Sequencing (1). Workshop in the manual and automated sequencing of DNA. Students may sequence DNA from their own research. Prerequisite: Graduate status and Permission of the instructor.

BCH 6507C Workshop in Radiometry and Spectrophotometry (1). Interaction of light with matter (absorption, fluorescence, light scattering) and emission (chemiluminescence and bioluminescence); analysis of spectra and enzyme kinetics. Prerequisite: Graduate status.

BOT 5159C Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: Ecology PCB 3043 or Permission of the instructor.

BOT 5406 Algal Physiology (3). Physiology and metabolism of eukaryotic algae, including ecological aspects of the aquatic environment and algal roles in aquatic biogeochemical cycle. Prerequisites: Phycology BOT 4404 and one year of chemistry or instructor consent.

BOT 5515 Biochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including biosynthesis and degradation of natural products as well as their biological/pharmacological activity. Prerequisite: Organic Chemistry II CHM 2211 or General Biochemistry BCH 3033.

BOT 5575 Botany (3) BOT 5575L Botany Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as photosynthesis, plant growth, animal vision, bioluminescence, and radiation damage. Prerequisite: Permission of the instructor.

BOT 5602 The Functional Ecology of Tropical Plants (3) BOT 5602L The Functional Ecology of Tropical Plants Lab (1). The relationship of climate and soils to the distribution and function of the major plant groups of the tropical regions. Prerequisites: Two courses in botany or Permission of the instructor.

BOT 5605 Plant Ecology (3) BOT 5605L Plant Ecology Laboratory (1). In-depth study of plant ecology at three levels: individual, population, and community. Laboratory and field exercises will examine lecture topics. Prerequisites: Ecology PCB 3043 or Permission of the instructor. Corequisite: Concurrent registration of lecture in lab course.

BOT 5647 Ecology of Marine Vascular Plants (3). Biology and ecology of seagrasses and mangroves, with an emphasis on South Florida and Caribbean species. Physiological ecology, population and community ecology, and ecosystem processes. Prerequisite: Permission of the instructor.

BOT 5648 Workshop on Aquatic Plants (1). Biology and identification of aquatic plants. Prerequisites: Graduate status or Permission of the instructor.

BOT 5682C Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: Ecology PCB 3043 or Permission of the instructor.

BOT 5816 Ethnobotany (3). Review the use and management of plants by indigenous people. Discuss emerging
theories in ethnobotany, examine the role of ethnobotany in conservation and resource utilization. Prerequisites: Economic Botany BOT 3810, Tropical Botany BOT 3663, or Cultural Ecology ANT 3403, or permission of the instructor.

BOT 5816L Ethnobotany Workshop (1). Field methods in the study of plant use by traditional and modern societies. Examines botanical documentation, ethnological description and experimental design. Prerequisite: Permission of the instructor.

BOT 5924 Workshop in Tropical Plant Families (3). An introduction to important spermatophyte families, including systematics, ecology, and conservation. Includes laboratory and field experience. Prerequisite: Permission of the instructor.

BOT 5925 Workshop in the Biology of Southern Florida's Native Trees (3). Distribution, floristic relationships, morphology, reproductive biology, anatomy, and conservation of trees native to southern Florida. Prerequisites: Local Flora BOT 3153, Tropical Botany BOT 3663, or permission of the instructor.

BOT 5928 Workshop on Grasses and Sedges of Southern Florida (1). The systematics, ecology, and identification of South Florida grasses and sedges. Prerequisite: Graduate status or permission of the instructor.

BOT 6275 Plant Breeding Systems (3). Ecology, evolution, genetics and development of plant breeding systems. Prerequisite: Permission of the instructor.

BOT 6585C Plant Structure and Function (4). A quantitative assessment of plant architecture, morphology and anatomy in relationship to physiology, including the measurement of water relations, energy and gas exchange. Prerequisites: Permission of the instructor and graduate status.

BOT 6645 Workshop in Field and Laboratory Techniques for Seagrass Ecology (1). Field and laboratory methods used in the study of seagrass communities. The course emphasizes ecological and physiological measurement methods. Prerequisite: Permission of the instructor.

BOT 6724 Readings in Pollination Biology (1). Current literature on pollination, including natural history, theory, experimental studies, and reviews. Prerequisite: Graduate status or permission of the instructor.

BOT 6901 Readings in Plant Mating Systems (1). Current literature on theory, biology, and evolution of plant mating systems. Prerequisites: Graduate standing or permission of the instructor.

BOT 6920 Workshop in Field Techniques in Natural History of Insect/Plant Interactions (1). A workshop in the techniques for collecting and preserving plants and insects for biological and taxonomic research.

BOT 6921 Workshop in Field Techniques in Pollination Biology (1). Techniques to do a thorough study of the pollination biology of any flowering plant; basic methods and simple instruments for field observations, measurements and manipulations. Prerequisite: Graduate status.

BOT 6922 Workshop: Video Image Analysis in Biology (1). Workshop in the use of video image analysis in biological research. Prerequisites: Graduate status and Permission of the instructor.

BOT 6923 Workshop: Techniques in Plant Reproductive Biology (1). Workshop in techniques for research on pollination and fertilization in plants. Histological and microscopic examination emphasized. Prerequisites: Graduate status and Permission of the instructor.

BOT 6926C Workshop in Plant Nutrient Analysis (1). Field and laboratory methods used in the assessment of nutrient availability for primary producers. Prerequisite: Permission of the instructor.

BOT 6928 Workshop on Plant Gas Exchange and Fluorescence (1). Field and laboratory methods used for measurement of plant photosynthetic production and transportation. Prerequisite: Permission of the instructor.

BOT 6935 Advanced Topics in Botany (3). An intensive study of particular plant topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

BOT 6936 Readings in Plant/Animal Interactions (1). Current literature on coevolution of plants and animals, theory, experimental studies, and reviews. Prerequisite: Graduate status or permission of the instructor.

BSC 5215 Introduction to the Mechanics of Biological Systems (3). Mechanical principles are used to analyze the structure and function of plants and animals, especially the statics of bone systems, and support structures of plants. Prerequisite: Permission of the instructor.

BSC 5302 Ecosystems of the Past (3). Analysis of local to global change in environments through time using faunal distributions, biodiversity, biogeography, physical and chemical properties of sediments, and stable isotopes. Prerequisite: Permission of the instructor.

BSC 5345 Techniques in Scientific Diving (4). Planning and conducting safe scientific diving operations and research. Prerequisite: Civilian Diving Certificate (NAUI/PADI) or equivalent.

BSC 5405C Environmental Instrumentation (3). Theory and techniques for measurement of environmental parameters of interest to field biologist. Prerequisite: Permission of the instructor.

BSC 5406 Forensic Biology (3). Forensic applications of molecular biology including PCR, STR techniques and other laboratory methods and data interpretation. Prerequisite: Graduate status.

BSC 5409C Biology Laboratory Instrumentation for Secondary Teachers 1 (3). Principles and practice of selected instrumental techniques. Spectrophotometry, electrical measurements and separatory techniques. Not for BSC majors. Prerequisites: Three undergraduate credits in physics, three in chemistry, and six in biology.

BSC 5416C Workshop in Cell Culture Methods and Applications (1). Utilization of primary and established cells to study growth cell cycle, chromosomes, cell differentiation. Special applications to basic problems in cell molecular biology. Prerequisites: Permission of the instructor and graduate status.

BSC 5606 Biological Systematics (3). Systems of nomenclature and contemporary topics in classification, including molecular evidence, numerical methods and cladistics. Prerequisite: Permission of the instructor.
BSC 5926 Graduate Bioresource Workshop (1). This workshop is designed to introduce Biology graduate students to the various resources available for graduate teaching and research. Prerequisite: Graduate standing.

BSC 5928 Workshop: Vertebrate Animal Research (1). Reviews the ethical, legal and practical guidelines for conducting research with live vertebrate animals. Required for students capturing, handling or collecting vertebrate animlas in the course of research or teaching. Prerequisite: Graduate standing or permission of the instructor.


BSC 5933 Current Topics in Tropical Biology (3). An intensive study of particular tropical biology topics not otherwise offered in the curriculum. Prerequisite: Permission of the instructor.

BSC 5935, 6936 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Senior or graduate status.

BSC 5936 Glaser Seminar: The Biology of Tomorrow (1). A series of lectures by an invited, internationally recognized authority in biological topics of current and future concern.

BSC 5945 Supervised Teaching in Biology (1-2). Teaching in a biological discipline, under the supervision of departmental faculty. Prerequisite: Graduate status.


BSC 6415 Animal Cells in Culture (3) BSC 6415L Animal Cells in Culture Lab (2). Biology of animal cells cultured in semi-synthetic media: cell nutrition growth, cell cycle analysis, cellular transformation and differentiation, heterokaryons and somatic cell genetics. Prerequisite: Permission of the instructor.

BSC 6456C Microcomputer Use in Biology (1). Introduction to microcomputer operating environ-
PCB 5195 Histochemistry/Microtechnique (3) PCB 5195L Histochemistry/Microtechnique Lab (1). Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathology labs including techniques for enzymes, protein, carbohydrate, nucleic acids and lipids. Prerequisite: General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5215 Workshop in Histology and Immunocytochemistry (1). Laboratory techniques for preparation of paraffin-embedded and frozen sections; selected procedures to demonstrate the fundamentals of histochemical and immunocytochemical labeling methods. Prerequisite: Graduate status or permission of the instructor.

PCB 5238 Marine Comparative Immunology Workshop (1). A workshop at the Keys Marine Lab to present general and unique research methodologies associated with the immunology of marine animals. Prerequisite: Permission of the instructor.

PCB 5259 Topics in Developmental Biology (3). Molecular and cellular mechanisms in the development of plants and animals. Prerequisite: Permission of the instructor.

PCB 5307 Limnology (3) PCB 5307L Limnology Lab (1). Chemical and physical properties of standing and flowing freshwater systems; ecophysiology and interactions of the fresh water flora and fauna in relation to abiotic factors; oligotrophic to eutrophic conditions.

PCB 5327 Coastal Ecosystems and Modeling (3). Basics of ecology for coastal and wetland ecosystems. The theory and mechanisms of simulation modeling. Hands-on creation and application of computer models in ecological research. Prerequisites: Ecology PCB 3043 and Calculus 1 MAC 2311 or Permission of the instructor.

PCB 5356L Tropical Ecology Field Lab (3). Field course in Costa Rica with fieldwork in two or more diverse habitats (rainforest, and dry forest). Emphasis on diversity and interactions between species. Visits to selected sites of deforestation, conservation and restoration.

PCB 5358 Everglades Research and Resources Management (3). Application of basic skills in ecology to contemporary issues in the Everglades area, with emphasis on the relation between research and management of wilderness, wildlife, vegetation, water and fire. Prerequisite: Ecology PCB 3043 or Permission of the instructor.

PCB 5376 Animal Physiological Ecology (3) PCB 5376L Animal Physiological Ecology Laboratory (1). Evolution-oriented approach to physiological adaptations of animals living in diverse environments. Considers the inter relationship between behavior, energetics, and integrative regulation of metabolism. Prerequisite: Ecology PCB 3043 and Biochemistry BCH 3033. Corequisite: Concurrent registration of lecture with lab course.

PCB 5405 Biochemical Ecology (3). Principles of chemical communication between diverse organisms and the importance of a variety of allelochemicals in community structure. Prerequisite: Permission of the instructor.

PCB 5407 Workshop: Microelectrodes in Microbial Ecology (1). Use of microelectrodes to measure chemical microenvironments and biological processes in natural samples. Hands-on experience with O2 and pH electrodes. Prerequisite: Permission of the instructor.

PCB 5423 Advanced Ecology: Populations and Communities (3). Advanced analysis of population and community ecology. Prerequisites: Ecology PCB 3043 or Permission of the instructor or graduate status.

PCB 5454 Advanced Ecology: Communities and Ecosystems (3). Advanced analysis of ecological principles pertaining to communities, ecosystems, and landscapes, with special emphasis on the South Florida and Caribbean region. Prerequisites: Ecology PCB 3043 or permission of the instructor or graduate status.

PCB 5596 Workshop: In Situ Hybridization (1). Analysis of gene expression by in situ hybridization techniques using whole mount and cryosectioned tissues. Prerequisite: Graduate status or permission of the instructor.

PCB 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisites: Genetics PCB 3063 and General Biochemistry BCH 3033.

PCB 5616 Applied Phylogenetics (3). Methods of phylogenetic analysis with a focus on pragmatic applications to ecological and evolutionary studies. Hands-on experience with current computer programs for phylogenetic analysis. Prerequisite: Graduate status or permission of the instructor.

PCB 5665 Human Genetics (3) PCB 5665L Human Genetics Lab (2). Principles and techniques in the analysis of humans and primates. Prerequisites: Genetics PCB 3063 and Lab PCB 3063L, or permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

PCB 5676 Evolution and Development of Sex (3). The evolutionary explanations for the evolution of sexual reproduction and models of sexual differentiation. Prerequisites: Genetics PCB 3063 and Evolution PCB 4674 or Permission of the instructor.

PCB 5677 Evolution and Development (3). The models and evidence for the interaction of development and evolution, using both plant and animal systems. Prerequisite: Permission of the instructor.

PCB 5686 Population Biology (3). PCB 5686L Population Biology Lab (1). Intrinsic properties of natural and theoretical populations and their dynamics and interactions, and responses to disturbance. Includes field problems and computer exercises. Prerequisite: A course in genetics and evolution, or Permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.


PCB 5785 Membrane Signal Transduction (3). Hormones and neurotransmitters as extracellular messengers. Membrane receptors and mechanisms of signal transduction: membrane channels and enzymes, direct linkage and G-protein linkage. Second messengers. Prerequisites: General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5786 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transduction. Prerequisites: General Physics 1 PHY 3048, General Physics...
II PHY 3049 and General Biochemistry
BCH 3033 or Cell Physiology PCB 3203.

PCB 5835 Neurophysiology (3) PCB 5835L. Neurophysiology (1). Comparative neurophysiology; physicochemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequisites: Biochemistry PCB 3033 or Cell Physiology PCB 3203, and Calculus I MAC 2311.

PCB 5902 Readings in Stable Isotope Studies (1). Discussion of scientific papers published in the fields of isotope ecology and isotope biogeochemistry. Prerequisites: Graduate status or permission of the instructor.

PCB 5934 Topics in Skeletal Muscle Physiology (4). Advanced discussion of some aspects of the biophysics, biochemistry and physiology of skeletal muscle contraction. Topics may vary from year to year. Based on review articles and research papers. Prerequisite: Human Systemic Physiology I PCB 4733 or Human Physiology PCB 3703 and Cell Physiology PCB 3203 or General Biochemistry BCH 3033.

PCB 5938 Ecosystem Studies Seminar (3). Theory and practice of ecosystem analysis, based on discussion of current articles and books. Emphasis on using different approaches to understand natural complexity, with case studies researched by students. Prerequisites: Ecology PCB 3043 or permission of the instructor.

PCB 6176C Biological Electron Microscopy (5). Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of the instructor.

PCB 6236 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of the instructor.

PCB 6237 Immunogenetics (3). The impact of classical and molecular genetic analyses on our understanding of the immune response. Prerequisite: A course in Immunology and Genetics.

PCB 6318 Readings in Marine Ecosystems Ecology (1). Analysis of current literature on theory, data and case studies of marine ecosystem ecology. Prerequisite: Graduate status or permission of the instructor.

PCB 6345C Quantitative Field Ecology (6). Methodology in the description and analysis of populations and communities. Prerequisites: Permission of the instructor and Introductory Statistics II STA 3123.

PCB 6526 Advanced Molecular Biology (3). Molecular genetics, controlling mechanisms, recombinant DNA, gene splicing and gene vector construction of viral, bacterial, plant and animal systems. Prerequisite: Permission of the instructor.

PCB 6566 Chromosome Structure and Function (3). Structural organization and function of the prokaryotic and eukaryotic chromosome: euchromatin/heterochromatin, replication, repair, DNA sequence organization and changes during differentiation and development. Prerequisite: Permission of the instructor.

PCB 6786 Membrane Biophysics (3). The structure and function of cell membranes: ionic transport, passive electrical properties, and excitation. Prerequisite: Permission of the instructor.

PCB 6926 Workshop Biology—Spatial Analysis and GIS (1-2). Introduction to interpretation and quantitative analysis of spatial data, use of computer-based image processing and Geographic Information Systems as tools for research, application to South Florida landscapes. Prerequisite: Permission of the instructor.

PCB 6933 Trends in Neurobiology (2). Critical analyses and discussions of selected research articles of current interest. Seminar format. Prerequisite: Permission of the instructor.

PCB 6935 Advanced Topics in Genetics (3). An intensive study of particular genetic topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

PCB 7235 Reproductive Immunology (3). Molecular and cellular interactions in early development, ontogenetics, and mother and fetus. Prerequisite: Permission of the instructor.

PCB 7676 Evolution and Development of Sex (3). Models of sexual differentiation and reproduction treated in an evolutionary context. Prerequisite: Permission of the instructor.

PCB 7689 Advanced Topics in Population and Evolutionary Genetics (3). Comparison of the synthetic and mutational drift hypotheses; relationships between molecular and phenotypic evolutionary rates and the phenotypic effects of various forms of mutation. Prerequisite: Permission of the instructor.

ZOO 5265 Biology of Crustaceans (3). ZOO 5265L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5424 Herpetology (3) ZOO 5424L Herpetology Laboratory (1). Biology of amphibians and reptiles from a systematic perspective. The three orders of living amphibians and the six living orders of reptiles are covered in detail. Prerequisite: General Biology I & II BSC 1010 and BSC 1011, Ecology PCB 3043, or permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

ZOO 5456 Ichthyology (3) ZOO 5456L Ichthyology Lab (1). Systematics, structure, function, ecology, and evolution of fishes. Prerequisites: General Biology I BSC 1010, General Biology II BSC 1011 and Ecology PCB 3043. Corequisite: Concurrent registration of lecture with lab course.

ZOO 5479 Workshop in Field Ornithology: Mark and Recapture Methods (1). Instruction in techniques of banding wild birds, including their capture with mist nets, identification in the field, and maintenance of federal required records. Prerequisites: Ornithology ZOO 4472 and Lab ZOO 4472L or permission of the instructor.

ZOO 5732 Advanced Anatomy Demonstration (1-4). Dissection and demonstration of the human body with the emphasis on structure and function. May be repeated to a maximum of eight credits. Prerequisite: Human Gross Anatomy I ZOO 3733 and Lab ZOO 3733L, Human Gross Anatomy II ZOO 3734 and Lab ZOO 3734L or permission of the instructor.

ZOO 5745 Advanced Neuroanatomy (3). In-depth knowledge of the embryonic development, structure, and function of the human nervous system with a great deal of clinical consideration. Prerequisite: Neuro-
science ZOO 4743 or permission of the instructor.

ZOO 5746 Comparative Neurobiology (4). Structure and function of neural systems at many levels including biophysical and cellular mechanisms, molecular processes, neural circuits, development, and anatomy. Prerequisite: Graduate status or permission of the instructor.

ZOO 6460 Workshop on Reptile and Amphibian Sampling (1). Biology and sampling methods for reptiles and amphibians. Prerequisite: Graduate status.

ZOO 6935 Advanced Topics in Zoology (3). An intensive study of particular topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.
examinations covering standard undergraduate-level material in organic chemistry and physical chemistry (thermodynamics and kinetics). The proficiency exams will be administered to incoming graduate students in the week preceding the fall and spring semesters. If a student does not receive a grade of "pass" on the organic chemistry proficiency exam, the student must show proficiency by completing Graduate Organic Chemistry (CHM 5225) with a grade "B" (3.0/4.0) or higher. If a student does not receive a grade of "pass" on the physical chemistry proficiency exam, the student must show proficiency by completing Graduate Physical Chemistry (CHM 5425) with a grade "B" (3.0/4.0) or higher. Students must show proficiency in these two areas by the end of their first semester or they will be dismissed from the program.

Full-time graduate students generally serve as a Teaching Assistant (TA) in the Department of Chemistry for their first semester. Ph.D. candidates must serve not less than one year as teaching assistants. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such action. TAs are awarded on a competitive basis, require a minimum cumulative GPA of 3.0, and are continued for up to two years for M.S. students and 4 years for Ph.D. students with acceptable academic performance. Graduate students must maintain a 3.0/4.0 GPA (only courses required by the graduate program will be counted in the GPA). If the GPA drops below a 3.0 for one semester the student will be placed on academic probation. A student who fails to raise their GPA to a 3.0 or higher in two semesters will be dismissed from the program.

A limited number of Graduate Research Assistantships (RAs) are available after the student's first semester and are awarded on a competitive basis by the individual faculty members with externally funded research projects.

Formal admission to the M.S. and Ph.D. programs and awards of teaching assistantships are granted by the Graduate Program Director based on a ranking of graduate applicants by the Graduate Committee.

Master of Science in Chemistry

The requirements for completion of the Master of Science degree are:

1. A minimum of 32 credits of course work, a grade of ‘C’ or higher must be obtained in all courses with a cumulative grade point average of 3.0 or higher which must include:
   a) At least 9 credits of chemistry in at least three of the five major areas of chemistry (Analytical, Biochemistry, Inorganic, Organic, and Physical) as listed below:

   Analytical
   CHM 5156 Advanced Chromatography
   CHM 6157 Advanced Analytical Chemistry

   Biochemistry
   CHM 5506 Physical Biochemistry

   Inorganic
   CHM 5440 Kinetics and Catalysis
   CHM 5650 Physical Inorganic Chemistry

   Organic
   CHM 5250 Organic Synthesis
   CHM 5236 Spectroscopic Techniques and Structures Elucidation
   CHM 5320 Physical Organic Chemistry

   Physical
   CHM 5490 Physical Spectroscopy
   CHM 6430 Advanced Thermodynamics
   CHM 6461 Statistical Thermodynamics
   CHM 6480 Quantum Mechanics
   CHM 5423 Atmospheric Chemistry

   Courses not listed above may be counted as courses in one of the five areas with prior departmental approval.

   b) At least 9 credits of additional graduate-level chemistry courses (excluding research and seminar) approved by the thesis committee in consultation with the Graduate Program Director with the following guidelines:

   (1) The courses must be 5000 or 6000 level chemistry courses (CHM prefixes) or approved cognates (up to a maximum of six credits) and

   (2) The following courses cannot count towards the 18 credits: Graduate Analytical Methods (CHM 5150); Graduate Organic Chemistry (CHM 5225) and Graduate Physical Chemistry (CHM 5425).

   c) Full time graduate students are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
d) Full time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
e) At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must give a seminar at the colloquium for a letter grade in their second semester of graduate study.
f) At least nine credits of CHM 6970 (Thesis Research) involving independent thesis research under the direction of a faculty member in the department.
g) At least two credits of CHM 6971 (Thesis) taken in the semester in which the MS thesis is to be defended.

2. Submission and public presentation of a satisfactory research thesis as determined by the thesis committee.

The thesis committee will consist of the research advisor, a randomly chosen committee member chosen by the graduate program director and at least one additional committee member who has some expertise in the graduate student's research area.

Doctor of Philosophy in Chemistry

The requirements for completion of the Doctor of Philosophy degree in chemistry are:

1. A minimum of ninety (90) credits of course work. A grade of “C” or higher must be obtained in all courses with a cumulative GPA of 3.0 or higher. The courses must include:

   a) At least nine credits of chemistry courses in at least two of the five major areas of chemistry (Analytical, Biochemistry, Inorganic, Organic, and Physical) as listed below:

      | Analytical            | Physical                      |
      |-----------------------|-------------------------------|
      | CHM 5156 Advanced    | CHM 5490 Physical Spectroscopy|
      | Chromatography       |                               |
      | CHM 6157 Advanced    | CHM 6430 Advanced Thermodynamics|
      | Chemistry            | CHM 6461 Statistical Thermodynamics|
      | Biochemistry         | CHM 6480 Quantum Mechanics    |
      | CHM 5506 Physical    | CHM 5423 Atmospheric Chemistry|
      | Biochemistry         |                               |
      | CHM 5440 Kinetics    |                               |
      | and Catalysis        |                               |
      | CHM 5650 Physical    |                               |
      | Inorganic Chemistry  |                               |
      | CHM 5250 Organic     |                               |
      | Synthesis            |                               |
      | CHM 5236 Spectroscopic|                               |
      | Techniques & Structure|                               |
      | Elucidation          |                               |
      | CHM 5260 Physical    |                               |
      | Organic Chemistry    |                               |

e) At least two credits of CHM 6936 (Chemistry Colloquium) is required. Each student must give a seminar at the colloquium for a letter grade in his/her second and fifth semester of graduate study.
f) At least eight credits of CHM 7984 (Dissertation Research) involving independent thesis research under the direction of a faculty member in the department.
g) 7980 (Dissertation) taken in the semester in which the Ph.D. Dissertation is to be defended. Prerequisite: Admission to candidacy.

2. Satisfactory completion of a series of 3 hour cumulative examinations. The student will begin taking the cumulative examination after completing the proficiency requirements and no later than the beginning of the student's second semester. Five examinations will be given per year. The student must pass 4 out of 10 consecutively offered exams for admission to candidacy.

3. Submission, presentation, and satisfactory defense of a original research proposal and completion of a 'Pre oral' examination before the end of the fourth semester (excluding summers). The examination will be conducted by the dissertation committee and is based on the student's doctoral research and includes questions from the student's major field as well as minor and cognate fields.

4. Submission and public presentation and defense of a satisfactory research dissertation as determined by the dissertation committee.

The requirements for an incoming student having either a Master's Degree or a Bachelor of Science Degree are the same. Students having a M.S. in chemistry may transfer as many as 36 credits towards their Ph.D. degree, however only 6 of those credits will count to fulfill requirement 1 (formal course work requirement). Students may transfer more than 6 course work credits with special permission of the graduate committee. The number of additional course work credits required by the graduate committee will depend on, among other things, the student's performance in course work, date course work was completed and area of Ph.D. concentration chosen by the student. The graduate student's Ph.D. dissertation thesis will consist of the research advisor, a member from outside the department and a randomly chosen committee member chosen by the graduate program director from the departmental research faculty and at least two additional committee members who have some expertise in the graduate students research area. At least two members of the student's Ph.D. dissertation committee must be tenured in the department of chemistry. FIU Courtesy Professors may serve as research supervisors and co-major professors on a student's dissertation committee. It is expected that a meaningful collaboration be established between courtesy faculty serving as co-major professors and the major professor from within the department. The degree of collaboration and expectations including co-authorship on publications resulting from such collaborations must be agreed upon in the semester in which a graduate student chooses an advisor(s).
Financial Support
Full-time graduate students who are in good academic standing are eligible for financial support. Teaching and research assistantships are available on a competitive basis. Students may also apply for waiver of both in-state and out-of-state tuition. Inquiries concerning application to the program and availability of financial support should be directed to the Chemistry Graduate Coordinator.

Course Descriptions

Definition of Prefixes
CHM-Chemistry; CHS-Chemistry-Specialized; ISC-Interdisciplinary
Natural Sciences; OCC-Oceanography-Chemical.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

CHM 5150 Graduate Analytical Methods (3). Analysis of analytical data, electrochemistry, spectro-analytical techniques, chromatography, survey of new analytical methods. Prerequisite: Graduate standing or Permission of the instructor. (S)

CHM 5156 Advanced Chromatography (3). Intensive examination of the contemporary practice of chromatography including available chromatographic techniques, their selection and application. Prerequisite: CHM 4130 or Permission of the instructor.

CHM 5181 Special Topics in Analytical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Core course Prerequisite: CHM 4130 or Permission of the instructor.

CHM 5225 Graduate Organic Chemistry (3). Advanced topics in organic chemistry. Structure of organic molecules, reaction mechanisms, organic synthesis, and natural product chemistry. Prerequisite: Graduate standing or Permission of the instructor. (F)

CHM 5236 Spectroscopic Techniques and Structures Elucidation (3). Advanced techniques for the spectroscopic identification of organic compounds. Interpretation of spectral information for determination of structures of various classes of organic compounds. Prerequisites: CHM 4220 and CHM 4230L.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisite: CHM 4220 or Permission of the instructor.

CHM 5260 Physical Organic Chemistry (3). A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisite: CHM 4220 and physical chemistry or Permission of the instructor.

CHM 5280 Natural Products Chemistry and Biosynthesis (3). Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. Prerequisite: CHM 4220 or Permission of the instructor.

CHM 5302 Organic Chemistry of Nucleic Acids (3). Organic chemistry of ribose sugars, nucleoside heterocyclic bases, mechanism-based inhibitors of enzymes involved in nucleic acid metabolism, and chemical synthesis of DNA. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5306 Special Topics in Biological Chemistry (3). Investigation of one or more areas of biologically related chemistry. Prerequisites: CHM 4305 or Permission of the instructor.

CHM 5351 Computer Modeling of Biological Molecules (3). Introduces use of computers in studying biological macromolecules. Simulations, visualization methods, software, databases. Prerequisite: CHM 3411, Biochemistry recommended.

CHM 5380 Special Topics in Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4220 and physical chemistry or Permission of the instructor.

CHM 5423 Atmospheric Chemistry (3). Chemical processes in atmospheres. Photochemistry, chemical kinetics, tropospheric and stratospheric chemical reactions, anthropogenic effects on the earth’s atmosphere and chemistry of planetary atmospheres. Prerequisite: CHM 3412, CHM 3411, or Permission of the instructor.

CHM 5425 Graduate Physical Chemistry (4). Prequantum physics, the Schrodinger equation and its solutions, atoms and molecules, rotational, vibrational, and electronic spectroscopy. Prerequisite: Graduate standing or Permission of the instructor.

CHM 5440 Kinetics and Catalysis (3). Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411, MAP 3302.

CHM 5490 Physical Spectroscopy (3). Introduction to atomic and molecular quantum states, selection rules, and fundamental principles of spectroscopy. Introduction to group theory and to the theory of UV/visible, infrared, Raman, microwave, nmr, photo-electron, and mass spectrometries, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

CHM 5490L Physical Spectroscopy Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 2211, 2211L. Corequisite: PHY 4604 or CHM 5490.

CHM 5503 Physical Chemistry of Nucleic Acids (3). Physical chemistry of nucleic acids including spectroscopic determination of structures of DNAs, RNAs, and DNA-protein complexes and thermodynamic and kinetic studies of nucleic acid-ligand complexes and nucleic acid structures. Prerequisite: CHM 4305 or permission of the instructor.

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 4305 or Permission of the instructor.

CHM 5517 Solid State (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisite: CHM 5490 or PHY 4604.

CHM 5581 Special Topics in Physical Chemistry (VAR). An intensive examination of one or more
areas selected by instructor and students. Prerequisite: CHM 3411 or Permission of the instructor.

CHM 5650 Physical Inorganic Chemistry (3). Introduction to use of physical methods to determine the structure of inorganic compounds. Prerequisite: CHM 4610 or Permission of the instructor.

CHM 5681 Special Topics in Inorganic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or Permission of the instructor.

CHM 5765 Aquatic Chemistry (3). Redox chemistry, chemistry of sediments, organic biogeochemistry, chemodynamics, and fates of organic pollutants in aqueous environments. Prerequisites: CHM 2211, CHM 4130, or Permission of the instructor.

CHM 5931 Special Topics (3). A course covering selected special topics in chemistry.

CHM 5932 Special Topics (3). A course covering selected special topics in chemistry.

CHM 5936 Special Topics in Environmental Chemistry (3). An intensive examination of one or more areas selected by the instructor and students. Prerequisite: Permission of the instructor.

CHM 5xxx Forensic Chemistry (3). Advanced Analytical methods in Forensic Chemistry for application to the analysis of controlled substances, materials (ie., paint, glass, and fibers), flammable and explosives residues with an emphasis on new methods and method development.

CHM 6157 Advanced Analytical Chemistry (3). Modern analytical methods, applications, and instrumentation. Topics include spectroscopy, chromatography, electrochemistry, optimization theory, and computerized instrumentation. Prerequisite: CHM 4130 or Permission of the instructor.

CHM 6166 Hyphenated Analytical Techniques (3). Covers hyphenated analytical techniques required for the analysis of trace elements and organic compounds in environmental and biomedical sciences. Prerequisite: CHM 4130 or equivalent.

CHM 6281 Environmental Organic Chemistry (3). Characteristics, origin, fate and transformation of organic compounds in air, water, sediments and biota. Prerequisites: CHM 2211, CHM 3411, or Permission of the instructor.

CHM 6340 Organic Geochemistry (3). Organic geochemistry of recent and ancient environments. Characteristics, origin, and transformation of organic matter in the geosphere, including formation of crude oil. Prerequisites: CHM 2211, CHM 3411, CHM 4130, GLY 1010, or Permission of the instructor.

CHM 6430 Advanced Thermodynamics (3). The laws of classical thermodynamics and their application. Open and closed systems, irreversible processes, high and low temperature systems, solids, liquids, and gases. Core course. Prerequisite: CHM 3411 or Permission of the instructor.

CHM 6449 Photochemistry (3). Fundamentals of photochemistry. Excited states, energy, and electron transfer processes, photo-oxidation, reactive species, and environmental photochemistry. Prerequisites: CHM 4220 or Permission of the instructor.

CHM 6461 Statistical Thermodynamics (3). Principles of statistical thermodynamics. Ensembles, classical and quantum statistics, ideal and non-ideal gases, equilibrium, crystals, liquids, and polymers. Prerequisite: CHM 3411 or Permission of the instructor.

CHM 6480 Quantum Mechanics (3). Introduction to quantum mechanics. The Schrodinger equation and its solutions, approximation methods, spin, symmetry, structure of atoms and molecules. Prerequisite: CHM 3411 or Permission of the instructor.

CHM 6511 Polymer Chemistry (3). A quantitative study of polymers. Mechanism of formation, configuration of polymer chains, and the relationship between physical properties and chemical constitution. Prerequisite: CHM 3411 or Permission of the instructor.

CHM 6621 Inorganic Reaction Mechanisms (3). Review of kinetics and determination of mechanism. Study of mechanism of reactions of coordination complexes including, electron transfer reactions, ligand substitution reactions, coordinated ligand reactions of importance in homogeneous catalysis. Prerequisite: Physical Chemistry I (Kinetics).

CHM 6624 Coordination Chemistry (3). Electronic structure of metals and transition metal complexes; redox reactions; introduction to organometallic and Bioinorganic Chemistry. Symmetry and group theory applied to Transition Metal Complexes. Physical methods in Inorganic Chemistry. Prerequisite: CHM 3410 Physical Chemistry (Kinetics), CHM 3411 Physical Chemistry II (Quantum Mechanics).

CHM 6905 Independent Study in Chemistry (1-6). Independent study and problems in an area of chemistry, under faculty supervision. May be repeated. Prerequisite: Permission of the instructor.

CHM 6910L Graduate Research in Chemistry (VAR). The student works directly with a professor on a research project. Credit is assigned on the basis of four h/wk per credit hour. Results to be presented as a seminar. Permission of the instructor.

CHM 6935 Graduate Seminar (1). An examination of various current research topics in chemistry. Prerequisite: Graduate standing.

CHM 6936 Chemistry Colloquium (1). Analysis of current developments and topics presented by faculty members and registered students. Prerequisite: Admission to graduate program in chemistry.

CHM 6940 Supervised Teaching (1-3). Graduate student serves as lecturer and demonstrator in undergraduate laboratories coordinated and supervised by a faculty member. May be repeated. A maximum of three hours may apply to the Master's degree. Prerequisite: Full graduate standing.

CHM 6949 Industrial Internship (3). A semester of supervised work in an outside laboratory, Prerequisite: Permission of the instructor.

CHM 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of Department.

CHM 6971 Master's Thesis (1-6). Completion of thesis. Prerequisite: Permission of major professor.

CHM 7984 Dissertation Research (1-10). Research towards the completion of a doctoral dissertation. Repeatable. Prerequisite: graduate standing.

CHS 5531 Forensic Analysis (3). Advanced topics on the role that physical evidence plays in the criminal justice system. Topics include crime scene methods, laboratory management and the legal framework as it relates towards physical evidence. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or Permission of the instructor.

CHS 5531L Forensic Analysis Lab (1). Laboratory to accompany Forensic Analysis CHS 5531. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or Permission of the instructor.
School of Computer Science

Jainendra K. Navlakha, Professor and Acting Director
Bill Krayneck, Associate Professor, Associate Director, and Graduate Program Director
Walid Akache, Instructor
David Barton, Professor
Toby S. Berk, Professor
Shu-Ching Chen, Assistant Professor
Yi Deng, Associate Professor
Timothy Downey, Instructor
Raimund Ege, Associate Professor
Michael Evangelist, Professor
Mbola Fanomezantsoa, Instructor
Xudong He, Assistant Professor
Kim Irvine, Instructor
Faisal Kaleem, Instructor
Masoud Milan, Associate Professor
Jainendra K. Navlakha, Professor
Ana Pasztor, Professor
Alexander Pelin, Associate Professor
Norman Pestina, Instructor
Nagarajan Prabakar, Associate Professor
Naphtali Rishe, Professor
Greg Shaw, Instructor
Geoffrey Smith, Assistant Professor
Joslyn Smith, Instructor
Wei Sun, Associate Professor
Mark A. Weiss, Professor

The School of Computer Science offers both a Masters of Science degree and a Doctor of Philosophy degree. The Master of Science degree provides study in state-of-the-art computer applications as well as an introduction to the theoretical foundations of computer science. The Doctor of Philosophy in Computer Science is designed to provide study in all major areas of computer science while leading to the frontiers of knowledge in a chosen field of concentration.

Master of Science in Computer Science

Admission

The following are in addition to the University’s graduate admission requirements:

1. A Bachelor’s Degree in Computer Science or equivalent degree in a related field from an accredited university or college as judged by the School’s Graduate Committee.
2. A minimum grade of 'B' average or better in all course work attempted while registered as an upper-division student in the Bachelor’s degree.
3. Acceptable courses in Calculus and Statistics.

4. GRE (general test), scores of at least 1650 combined on the verbal, quantitative, and analytical portions. The TOEFL scores must be at least 550. Both GRE and TOEFL must have been taken within the past five years.

5. Three letters of recommendation from persons in a position to judge the applicant’s potential success in graduate study.

6. Approval of the Graduate Committee.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 5011</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COP 6611</td>
<td>Advanced Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COT 5420</td>
<td>Theory of Computation I</td>
<td>3</td>
</tr>
<tr>
<td>COT 6405</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, the student must choose four courses from the following list, subject to the approval of the Graduate Committee:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5602</td>
<td>Introduction to Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CDA 5312</td>
<td>Micro Processing for Software Designers</td>
<td>3</td>
</tr>
<tr>
<td>CDA 6939</td>
<td>Advanced Topics in Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CEN 5120</td>
<td>Expert Systems</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6501</td>
<td>Distributed Processing</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6502</td>
<td>Advanced Topics in Concurrent and Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6612</td>
<td>Advanced Topics in Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6931</td>
<td>Advanced Topics in Information Processing</td>
<td>3</td>
</tr>
<tr>
<td>COP 5621</td>
<td>Compiler Construction</td>
<td>3</td>
</tr>
<tr>
<td>COP 6545</td>
<td>Advanced Topics in Database Management</td>
<td>3</td>
</tr>
<tr>
<td>COP 6556</td>
<td>Semantics of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>COT 6421</td>
<td>Theory of Computation II</td>
<td>3</td>
</tr>
<tr>
<td>COT 6930</td>
<td>Advanced Topics in Theory</td>
<td>3</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Cognitive Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, the student must satisfy one of the following two options:

Thesis Option

CIS 6970 Thesis

After completion of the other required courses, the student must conduct a research thesis. The topic must first be approved by the faculty member who will supervise the research and then by the Graduate Committee. The thesis will be accepted only after being read and approved by the Reading Committee. An oral defense is required before the Reading Committee.

Non-Thesis Option

Additional Course Work

The student is required to take at least six additional semester hours of approved electives. The student then must pass a comprehensive examination which may have both written and oral parts and which is based on the student’s course work. This examination may not be taken more than two times.

Remarks: The program requires a ‘B’ average or higher and a grade of ‘C’ or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

Doctor of Philosophy in Computer Science

The requirements for admission to the doctoral program in Computer Science are:

1. A baccalaureate or master's degree in Computer Sciences, or equivalent degree in a related field as judged by the School’s Graduate Committee.
2. A minimum of a ‘B’ average on all upper division work and acceptable courses in Calculus and Statistics.
3. GRE scores of at least 1650 combined on the verbal, quantitative and analytical portions. The TOEFL must be at least 550. The GRE and TOEFL must have been taken within the past five years.
4. Three letters of recommendation from persons in a position to judge the applicant’s potential for advanced graduate study in computer science.
5. Approval of the School of Computer Science Graduate Committee.
6. A maximum of 36 computer science related graduate semester hours earned elsewhere as a graduate degree seeking student may be transferred to FIU.

Required Courses

All students must complete the following courses and receive a grade of 'B' or higher in each:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 6501</td>
<td>Distributed Processing</td>
<td>3</td>
</tr>
<tr>
<td>CEN 5011</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COP 6545</td>
<td>Advanced Topics in Database Management</td>
<td>3</td>
</tr>
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<tr>
<td>COT 6421</td>
<td>Theory of Computation II</td>
<td>3</td>
</tr>
</tbody>
</table>
COP 5621 Compiler Construction 3
In addition, all students:
1. Must successfully pass a Qualifying Examination based on the student's course work.
2. Must take at least 18 hours of graduate elective courses approved by the Graduate Committee.
3. Must write a dissertation on their research and successfully defend it orally.
4. Must take, in total, 90 credits beyond the B.S. This includes at least 24 dissertation credits at FIU.
5. Must spend at least one academic year in full-time residence. Normally this will be after passing the Qualifying Examination.

COP 5642 Advanced Topics in Concurrent Programming (3). Study of concurrent and distributed systems and topics include foundations of concurrent computation, languages and tools for concurrent systems, distributed real-time systems, distributed multimedia systems, and concurrent object-oriented systems. (S, alternate years)

CIS 6931 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CIS 4610 Thesis (1-10). Prerequisite: Completion of all other requirements for the M.S. Degree in Computer Science.
COT 6930 Special Topics: Advanced Topics in Theory (3). This course deals with selected special topics in computing theory. Prerequisite: Permission of the instructor. (S, alternate years)

COT 6931 Topics in Cognitive Science (3). A “top-down” view of Computer Science, in particular artificial intelligence, by studying the computational aspects of human cognition. Prerequisites: COT 5420, COT 6421 or Permission of the instructor. (S, alternate years)
Creative Writing
Donald Watson, Professor and Chairperson
Lester Standiford, Professor and Director, Creative Writing
Lynee Barrett, Associate Professor
John Dufresne, Professor
Denise Duhamel, Assistant Professor
James W. Hall, Professor
Campbell McGrath, Associate Professor
Dan Wakefield, Writer in Residence

Master of Fine Arts in Creative Writing

The Master of Fine Arts in Creative Writing is the terminal degree for the practicing writer, designed to qualify the recipient to teach creative writing on the collegiate and university level. The program is housed at the North Campus. Writers enjoy the opportunity for editorial experience on Gulf Stream magazine, the annual FIU literary Awards competition, the FIU Writers Workshop at Sea Side, the Miami Book Fair, and the Writers on the Bay Series, which has included residencies by such writers as Gay Talese, Robert Pinsky, Carolyn Forche, Louis Simpson, John Wideman, Elmore Leonard, James Crumley, Luisa Valenzuela, Tony Hillerman, and Henry Taylor. Such major writers as Maxine Kumin, James Jones and George Garrett have served on the regular faculty.

Admission Requirements
Applicants must have a baccalaureate degree, a 3.0 GPA or a 1000 combined score on the GRE, and a minimum of nine semester hours of undergraduate work in creative writing. However, admission is based primarily on the strength of the applicant’s submitted writing sample. Deadline is February 15.

Degree Requirements
Forty-eight semester hours are required in studio/academic curriculum, with a minimum in each area as follows:

- Literature 15
- Writing Workshop (both poetry and fiction required) 18
- Form and Theory 3
- Thesis 6

There is no foreign language requirement. Graduate workshops include short fiction, the novel, popular fiction, screenwriting, creative non-fiction and poetry. The program places emphasis upon the preparation and completion of a book-length creative thesis. Candidates must pass a final defense/examination. Fellowships, teaching assistantships, and tuition remission scholarships are available on a competitive basis.

Course Descriptions

Definition of Prefixes
CRW-Creative Writing; ENG-English.

CRW 5130 Advanced Fiction Workshop (5). Practice in the techniques and analysis of fiction through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5331 Advanced Poetry Workshop (5). Practice in the techniques and analysis of poetry through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5620 Advanced Screenwriting Workshop (5). Practice in the techniques and analysis of screenwriting through the reading, discussion, and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5934 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 5935 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 5940 Advanced Independent Study in Creative Writing (1-5). Development and completion of a grade level independent project in creative writing undertaken with the consent of the instructor. Prerequisite: Graduate standing and instructor permission.

CRW 6971 Creative Writing Thesis (3). Research and writing for the creative writing thesis. May be repeated. Prerequisite: 12 hours graduate CRW course work.

CRW 6972 Creative Thesis Continuance (1). Further guidance and direction for creative writing MFA candidates who have completed the two semester intensive sequence in CRW 6971. May be repeated.

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing, including development and articulation of the creative aesthetic. May be repeated. Prerequisite: Permission of the instructor.
Economics

Panagis Liossatos, Professor and Chairperson
Nejat M. Anbarci, Associate Professor
Harvey Averch, Professor, Courtesy Appointment, College of Public and Urban Affairs
Mahadev Bhat, Assistant Professor (joint appointment with Environmental Studies)
John H. Boyd III, Associate Professor
Manuel J. Carvajal, Professor
Richard A. Chisik, Assistant Professor
Irma de Alonso, Professor
Alan Gummerson, Lecturer
Antonio Jorge, Professor of Political Economy. (joint appointment with International Relations)
Ali Cem Karayalcin, Associate Professor
Robert J. Lemke, Assistant Professor
J. Kenneth Lipner, Associate Professor
Devashish Mitra, Assistant Professor
Santanu Roy, Associate Professor
Jorge Salazar-Carrillo, Professor and Director, Center for Economic Research and Education
Constantinos Syropoulos, Associate Professor
Dimitrios Thomakos, Assistant Professor
Tao Wang, Assistant Professor
Mira Wilkins, Professor
Maria Willumsen, Associate Professor
Ann Witte, Professor

The graduate programs in Economics place a strong emphasis on combining fields such as international economics, political economy, development economics (including Latin America and Caribbean studies as well as regional development problems), and urban/labor/public economics using state-of-the-art tools such as econometrics, game theory, dynamic methods, and information economics. The Department of Economics has a fast growing, diverse group of faculty who are interested in both applied and theoretical issues. While these are the department’s areas of greatest emphasis, graduate course work in other fields can also be undertaken. The department’s programs are further enhanced by the presence of complementary graduate programs in the College of Arts and Sciences, College of Business Administration, and the College of Urban and Public Affairs.

Master of Arts in Economics

To be admitted into the Master’s degree program in Economics, a student must meet the University’s graduate admission requirements and:

1. Have a Bachelor’s Degree from an accredited institution.
2. Have a ‘B’ average (3.0) or higher during the last two years of undergraduate studies, or a minimum combined score (verbal + quantitative) of 1,000 or higher on the Graduate Record Examination (GRE), which every candidate must take. Foreign students whose native language is not English must take the TOEFL and obtain a minimum score of 550.
3. Receive approval of the departmental graduate committee.
4. Have taken as prerequisites intermediate microeconomics, intermediate macroeconomics, statistics, and calculus. A student who has not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, the student must take these courses as required, obtaining no credit for them in the program.

Degree Requirements

The Master’s degree program will consist of 30 semester hours of course work, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are:

Core Semester Hours
ECO 7115 Microeconomic Theory I 3
ECO 7206 Macroeconomic Theory I 3
ECO 7424 Econometric Methods I 3

Research Requirements: (3-6 credits)
Students must either write a thesis for 6 credits (ECO 6971), or take an advanced course in applied economics (7000-level or approved by the Graduate Director) which involves writing a research paper (3 credits).

Electives: (15-18 credits)
A student must take at least four electives in economics. The additional one or two courses required to complete the Master’s program may be taken in Mathematics, International Studies, the College of Business Administration, the College of Urban and Public Affairs or in the other college or schools of the University.

The graduate director must approve courses taken outside the department. ECP 6705 and ECP 6715 do not count as electives.

Graduation Requirements

To receive the Master’s degree in Economics, the student must complete 30 hours of course work with a ‘B’ (3.0) average or higher; must receive a least a ‘B’ (3.0) in the core courses; and must receive a grade of ‘C’ or higher in each course. If the student decides to write a thesis, he/she must receive the grade of ‘P’(pass) for ECO 6971.

Doctor of Philosophy in Economics

The admission requirements to the Ph.D. program in Economics are:

1. Have a Bachelor’s Degree from an accredited institution.
2. A minimum GPA of 3.0 for the last two years of undergraduate education or a minimum combined score (verbal + quantitative) of 1,000 on the Graduate Record Examination (GRE), which every candidate must take. Foreign students whose native language is not English must take the TOEFL and obtain a minimum score of 550.
3. Three letters of recommendation, using the form provided by the Department, from people in a position to judge the applicant’s suitability for graduate studies in economics.
4. Receive approval of the departmental graduate committee.
5. Completion of the following courses at the undergraduate level: intermediate microeconomics, intermediate macroeconomics, statistics, two semesters of calculus, and a semester of linear algebra. Unless exempted, the student must take these courses as required, obtaining no graduate credit for them in the program.

The GRE and GPA stated above are minimum requirements. All applications are reviewed by the Graduate Studies Committee, which makes the final admission decisions. Since admission to the program is competitive, the committee’s requirements are normally higher than the minimum standards. Meeting the minimum requirements does not guarantee admission.

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the required course work and fulfill dissertation requirements.
Course work Requirements

Students must complete 48 hours (16 courses) of graduate level course work. Supervised research, independent study, seminars, and dissertation credit do not count towards this objective.

This required minimum of 16 courses consists of eight courses in the Core, four courses in two Fields of Specialization (at least two courses per field, some fields may have special requirements), and four electives as approved by the student's advisor (normally either the Graduate Director or the student's dissertation advisor).

Core Courses

- ECO 7115 Microeconomic Theory I 3
- ECO 7116 Microeconomic Theory II 3
- ECO 7206 Macroeconomic Theory I 3
- ECO 7207 Macroeconomic Theory II 3
- ECO 7405 Mathematical Methods in Economic Analysis 3
- ECO 7424 Econometric Methods I 3
- ECO 7425 Econometric Methods II 3
- ECO 7305 History of Economic Thought 3

First Year of Graduate Study

Students are required to take courses, which must at least include the first six courses in the core as listed above. At the end of the year, students are required to pass a comprehensive qualifying examination on core theory - the first four of the core courses listed above. A student who fails twice will not be allowed to remain in the program. A student must receive at least a 'B' (3.0) average in the first five courses listed above in order to participate in the comprehensive qualifying examination.

Second Year of Graduate Study

Students will be required to take Econometric Methods II (with research paper), History of Economic Thought, and complete course work in two Fields of Specialization. Students must pass the field examination in one of the major fields by the end of the second year. In the other field, students must write a field paper. The field paper must be completed, presented in a workshop, and accepted by the student's field paper committee by the end of fall term of the third year. Students who fail twice any of their field requirements will not be allowed to continue in that field.

Dissertation Work

Upon completion of field examination requirements, students will be required to choose a specific area of doctoral research. During this phase, which will normally have a total length of two years, the student will:

a. Conduct research and complete a dissertation
b. Continue taking courses to complete a minimum of 12 credits of Advanced Workshop and 18 credits of dissertation.

Students will normally be required to be enrolled as full-time students at the University for at least a year during the dissertation period. Except under abnormal circumstances, the maximum number of years during which a student may do dissertation work is five years.

Graduation Requirements

To graduate, students must complete all course requirements; fulfill workshop presentation requirements, pass the comprehensive and field examinations, and complete the oral defense and acceptance of the Ph.D. dissertation.

Course Descriptions

Definition of Prefixes

- ECO-Economics
- ECP-Economic Problems and Policy
- ECS-Economic Systems and Development

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

- ECO 5709 The World Economy (3).
  Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program. (S)

- ECO 5735 Multinational Corporations (3).
  Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of the instructor for undergraduates. (S)

- ECO 5906 Advanced Individual Study (1-6).
  Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

- ECO 5945 Internship (3).
  Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the chair.

- ECO 6076 Teaching Economics (1).
  This course, required of all graduate assistants, is designed to introduce students to the pedagogical and practical aspects of teaching economics. It is coordinated with the Academy for the Art of Teaching.

- ECO 6936 Special Topics (3).
  A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

- ECO 6938 Individual Graduate Study (6-9).
  Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

- ECO 6939 Advanced Seminar in Applied Economics (3).
  Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students. (S)

- ECO 6971 Thesis (6).
  Writing and completion of thesis by candidate for a Master of Arts. Prerequisites: Student must be a Master's degree candidate, have had at least 15 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and permission from the instructor.

- ECO 7115 Microeconomic Theory I (3).
  Models of consumer and producer behavior, partial equilibrium analysis of product and factor markets, two-sector models of general equilibrium and welfare economics. Prerequisites: ECO 3101 or equivalent, Calculus I; Calculus II recommended. (F)

- ECO 7116 Microeconomic Theory II (3).
  The Hicks/Samuelson and Arrow/Debreu models of general equilibrium. Activity analysis and competitive equilibrium. Capital theory. Leontief/Sraffa/Marx Systems. Temporary equilibrium and money. Prerequisites: ECO 7115 and ECO 7405. (S)
ECO 7118 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7135 Growth, Distribution and Prices (3). Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo/Marxian, neo/Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.

ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisites: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, theories of output, production and cost of behavior, and basic open economy macroeconomics. Prerequisites: ECO 3203, ECO 4410, or equivalents; Calculus I; Calculus II recommended. (F)

ECO 7207 Macroeconomic Theory II (3). Alternative approaches to macroeconomic theory. Business cycle theories and theories of growth and income distribution. Prerequisites: ECO 7115, ECO 7206, ECO 7405.

ECO 7216 Monetary Theory and Policy (3). Relationship of money supply and interest rates to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.


ECO 7305 History of Economic Thought (3). Exploration of the evolution of economic thought and analysis in the changing socio/historical, institutional and political setting in which it takes place. Prerequisite: Permission of the instructor. (S)

ECO 7405 Mathematical Methods in Economic Analysis (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Calculus I, ECO 3101 and ECO 3203, or equivalents. (F)

ECO 7424 Econometric Methods I (3). Practical and theoretical foundations of empirical economics. Knowledge in formulation, estimation, and evaluation of econometric models. Prerequisites: ECO 4410 or equivalent; ECO 7423, Calculus I; Calculus II recommended. (S)

ECO 7425 Econometric Methods II (3). A continuation of ECO 7424. Advanced single equation estimation, estimation of distributed lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 7442 and MAS 3103 or equivalent. (F)

ECO 7429 Topics in Econometrics (3). Selected topics in econometrics. Intended to acquaint students with current research in the field. Material covered will vary from year to year with instructor. Prerequisites: ECO 7424 and ECO 7425.

ECO 7505 Public Finance (3). Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.

ECO 7617 Seminar in Economic History (3). Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of the instructor for undergraduates.

ECO 7705 International Trade (3). Positive and normative aspects of international trade. Theories of comparative advantage, commercial policy, trade and income distribution. Prerequisites: Advanced Microeconomic Theory; Calculus. (F)

ECO 7716 International Money (3). Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus. (S)

ECO 7925 Advanced Workshop (3). Enables students to attend advanced workshop presentations and to present the results of their own research. Prerequisite: Completion of field examination requirements. (F,S)

ECO 7980 Dissertation (Ph.D.) (3-12). To be taken every semester for research on, and writing of the dissertation by candidates for the Ph.D. Prerequisite: Completion of field examination requirements.

ECO 5707 International Economic Problems & Policy (3). International trade and comparative advantage, commercial policy, foreign exchange markets; balance of payments; issues in trade & development. Prerequisite: ECO 2013 or ECO 3011, and ECO 2023 or ECO 3021.

ECO 6305 Advanced Environmental Economics (3). Economics of environmental pollution; theories of exhaustible and renewable resource extraction; issues in environmental valuation and policies. Prerequisite: ECP 3101 and ECP 3302 or ECP 4314 or Permission of the instructor.

ECO 6434 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F,S,SS)


ECO 6705 Managerial Economics (3). Basic microeconomic concepts as they apply to decision making within the organization: supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011. (F,S,SS)

ECO 7035 Cost-Benefit Analysis (3). This course covers benefit-cost analysis, cost-effectiveness analysis, benefit-risk analysis, risk-risk analysis, and systems analysis. All of these techniques are designed to provide guidance to decision makers, particularly in the government sector. Prerequisite: ECO 3101.
ECP 7205 Labor and Human Resources (3). Empirical and theoretical analysis of the factors determining employment and earnings, recent developments in the theory of labor supply, critiques of neoclassical theory, and current issues in public policy. Prerequisite: Calculus.

ECP 7405 Industrial Organization (3). The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

ECP 7606 Urban and Regional Economics (3). The economics of urbanization processes, internal organization of cities, and regional settlement. Spatial growth models and spatial development planning. Prerequisites: ECO 7115, ECO 5205, ECS 4013 or equivalent; and ECO 6636. (F)

ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory. Spatial price theory and spatial competition. Prerequisites: ECO 3101 or equivalent; Calculus I; Calculus II and ECO 7115 recommended. (S)

ECP 7706 Managerial Economics (3). Analysis of the economic decisions of firm managers, emphasizing the practical application of concepts to economic problem solving by managers, public administrators and other decision makers. Prerequisites: Ph.D. or advanced Masters.

ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of the instructor for undergraduates.

ECS 5025 Economic Planning (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower. Prerequisite: Graduate standing or permission of the instructor.

ECS 5027 Economic Development of Emerging Nations (3). Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid, and economic integration. (F)

ECS 6436 The Economics of Caribbean Migration (3). The course examines the economic causes and consequences of Caribbean immigration to the United States. Special emphasis on the effects of Caribbean migration on the United States economy.

ECS 7015 Development Economics: Theory (3). Analytical approaches to economic development. Analysis of macro models, specific resources and sectors, and trade and income distributional problems in relation to developing countries. Prerequisites: ECO 7115 and ECO 7116 or equivalents. (F)

ECS 7026 Development Economics: Planning and Policy (3). Planning and policy making in developing economies. Economy/wide planning models; project appraisal; financial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, and ECS 7405. (S)

ECS 7405 Economics of Latin America (3). Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of the instructor for undergraduates.

ECS 7435 Economics of the Caribbean (3). Macroeconomic assessment; income distribution, employment and migration; industrial and agricultural development; international trade, multinational and integration attempts. Prerequisite: Permission of the instructor.

ECS 7445 Economics of Central America (3). Recent economic events in the region dealing with institutional background and structure of current economic activities. Special emphasis on problems of growth, social transformation and economic integration. Prerequisite: Permission of the instructor. (F)
English

Donald Watson, Professor and Chairperson
St. George Tucker Arnold, Associate Professor
Joan L. Baker, Associate Professor and Director of the Master of Arts in English Program
Lynne Barrett, Associate Professor
Lyne M. Berk, Professor and Director of the Linguistics Program
Lisa Blansett, Assistant Professor
Greg Bove, Assistant Professor and Director of Undergraduate Writing
Gisela Casines, Associate Professor and Associate Dean
Maneck Daruwala, Associate Professor
Carole Boyce Davies, Professor
John Dufresne, Professor
Peggy Endel, Associate Professor
Mary Free, Associate Professor and Associate Chairperson
James Hall, Professor
Kimberly Harrison, Assistant Professor
Bruce Harvey, Associate Professor
Marilyn Hoder-Salmon, Associate Professor
Tomoto Hopkins, Associate Professor
Kenneth Johnson, Associate Professor
Alfred Lopez, Assistant Professor
Kathleen McCormack, Associate Professor
Campbell McGrath, Associate Professor
Carmela Pinto McIntire, Associate Professor
Phil Marcus, Professor
Asher Z. Milhauer, Associate Professor
Meri-Jane Rochelson, Associate Professor
Richard Schwartz Professor
Kate Capshaw-Smith, Assistant Professor
Lester Standiford, Professor and Director of Creative Writing Program
Linda Strong-Leck, Assistant Professor
Richard Sugg, Professor
James Sutton, Assistant Professor
Dan Wakefield, Writer in Residence
Butler H. Waugh, Professor
C. Kemp Williams, Associate Professor
Mehmet Yavas, Professor

The English Department offers three graduate degree programs: Creative Writing, Linguistics and Literature. The descriptions of the Creative Writing and the Linguistics programs can be found under their respective headings in this catalog.

Master of Arts in English

To be admitted into the Master’s program in English, a student must meet the University’s graduate admission requirements and have:
1. A bachelor’s degree in English or a related field;
2. A minimum 3.0 undergraduate grade point average;
3. A combination of 1000 (verbal and quantitative) on the GRE;
4. Two letters of recommendation from undergraduate or graduate professors;
5. A personal essay;
6. Those who might be chosen for teaching assistantships will be interviewed by at least one member of the committee.

Degree Requirements

The Master’s degree program consists of 30 semester hours of course work at a graduate level (course numbers 5000 or above) and a thesis (6 credits). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee.

Required Courses
ENG 5048 Literary Theory 3
LIT 5405 Literature, Language and Society 3

Electives: A maximum of 24 semester hours (5000 or 6000) level may be taken at either campus.

Thesis: LIT 6970 Master’s Thesis 6

The student must conduct a research thesis. The topic must be approved by the faculty member who will supervise the research and then by the Graduate Committee. The thesis will be accepted only after being read and approved by a Reading Committee. An oral defense is required before the Reading Committee.

Below is a list of graduate courses that are offered by the English Department in addition to those offered in the Creative Writing and Linguistics programs.

Course Descriptions

Definition of Prefixes
AML - American Literature; CRW- Creative Writing; ENG-English-General; ENL-English Literature; LIN - Linguistics; LIT-Literature.

AML 5305 Major American Literary Figures (3). Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin. May be repeated.

AML 5505 Periods in American Literature (3). The literature and criticism regarding one specified period of American Literature, such as Colonial, Federal, Transcendental, Antebellum, and Twentieth Century. May be repeated with change of period.

ENG 5009 Literary Criticism and Scholarship (3). Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 5018 Practical Criticism (3). Applies various critical theories - e.g. the formalistic, historical, structural, archetypal, sociological, etc. - to specific literary productions.

ENG 5026 Advanced Textual Reading (3). The study of selected texts for interpretation from different critical and theoretical perspectives. May be repeated. Prerequisite: Admission to the graduate program in English or by Permission of the instructor.

ENG 5048 Literary Theory (3). An introduction to issues in the nature of literature, the philosophy of criticism, and methods of interpretation. The theoretical foundations for literary study. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing, including development and articulation of the creative aesthetic. May be repeated. Prerequisite: Permission of the instructor.

ENG 5907 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENG 5971 Thesis and Dissertation Workshop (3). A workshop providing practice in the type of writing, research, and analytical skills required for successful graduate study. Prerequisite: Graduate standing.

ENG 6909 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENG 6935 Special Topics in College Pedagogy (3). The pedagogy of teaching a designated area of college and university English, such as
Shakespeare, American literature, film studies, creative writing, or linguistics. Course content and organization to be determined by the individual professor. Course does not meet certification requirements.

ENG 6937 Teaching College Composition (3). A seminar-workshop introducing the pedagogy of academic and professional writing courses at the university and college level, to include traditional rhetoric, writing as process, the modes of discourse, and poststructural theory. Course does not meet certification requirements. Prerequisite: Graduate standing. Corequisite: College composition practicum.

ENG 6942 College Composition Practicum (1). Practical experience in the teaching of English at the university and college level through supervised activities to include tutorials, evaluating, and commenting on student essays, supervised classroom discussion and teaching. Course does not meet certification requirements.

ENL 5220 Major British Literary Figures (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 5505 Periods in English Literature (3). The literature and criticism regarding one specified period of English Literature, such as Medieval, Renaissance, Victorian, Twentieth Century, and Contemporary. May be repeated with change of period.

LIN 5019 Metaphor, Language, and Literature (3). Examines nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisites: LIN 3013 or LIN 5018.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIT 5363 Literary Movements (3). Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, the Harlem Renaissance, and others. May be repeated.

LIT 5405 Literature, Society, and Language (3). This seminar explores language’s relationship to social formation, specifically as it applies to the relationship between literature and social groups and institutions. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5426 Authors in their Times (3). A focus on one or more designated authors and the biographical, political and historical context in which they wrote, using current critical and historical approaches. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5486 Literature: Continuity and Change (3). Explores the development of a particular literary genre, ideological concept, or cultural tradition over a broad period of time. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5487 Texts and Culture (3). The study of the relationship between specified texts and an historically, socially, or conceptually defined culture, such as Vietnam War Narratives, Jewish Literature, or Postmodernism. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6935 Master's Colloquium (3). Individual sections study a specific literary topic, selected and presented jointly by several faculty members. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 6970 Master's Thesis (1-6). A thesis is required of all graduate students of English, to be written in the final semester. Done under the supervision of a faculty member. Prerequisites: Admission to the grad-
Environmental Studies

David Bray, Associate Professor and Chairperson
Bradley Bennett, Associate Professor
Mahadev Bhat, Associate Professor
Alice Clarke, Assistant Professor
Constantine Hadjilambros, Associate Professor
Krishnaaswamy Jayachandran, Assistant Professor
Joel Heinen, Associate Professor
Stephen P. Leatherman, Professor (International Hurricane Center)
Michael McClain, Assistant Professor
Jack Meeder, Research Scientist (Southeast Environmental Research Center)
John Parker, Professor
Tom Pliske, Instructor
Gary Rand, Associate Professor
Mike Ross, Research Scientist (Southeast Environmental Research Center)
Keqi Zhang, Research Scientist International Hurricane Center

Affiliated Faculty
Jerry Brown, Sociology/Anthropology
Janet Chernela, Sociology/Anthropology
Jim Fourqurean, Biological Sciences
David Geneveux, Geology
Joel Gottlieb, Political Science
Kevin Hill, Political Science
James Huchinson, Religious Studies
Rudolf Jaffe, Chemistry
Jeff Joens, Chemistry
Ronald Jones, Biological Sciences
Suzanne Koptur, Biological Sciences
Rod Neumann, International Relations
Steve Oberbauer, Biological Sciences
George O’Brien, Education
Betsy Smith, Social Work
Berrin Tansel, Civil and Environmental Engineering
Joel Trexler, Biological Sciences
Bill Vickers, Sociology/Anthropology

Master of Science in Environmental Studies

The Master of Science in Environmental Studies requires 36 credits, including a thesis (at least 6 credits) based upon the student’s original research. A maximum of six credits of post-baccalaureate graduate course work may be transferred from other institutions, subject to approval of the graduate committee. A total of 18 hours of graduate electives is required. Particular courses will be determined by the student in consultation with the advisory committee. At least two of those should be within the Department of Environmental Studies. Approved courses (see below) are subject to change, and updated lists of these courses are available from the Departmental office.

Additional thesis or research credit, above the 6-credit minimum, may also be applied as elective credit. A maximum of six credit hours may be taken at the 4000 level, and a minimum of six credit hours must be taken in Environmental Studies. Students must demonstrate a competency in Statistics (equivalent to 6 credit hours). Additional course work may be recommended by the advisory committee. A maximum of 5 credit hours of independent study credit (EVR 5907 Graduate Independent Study) may be applied toward graduation.

A grade of ‘B’ or higher must be obtained in all core courses. A grade of ‘C’ or higher must be obtained in all courses, with a cumulative GPA of 3.0 or higher in the 36 credits. A thesis must be completed and defended in consultation with the student’s graduate thesis committee.

Required Courses

EVR 5320 Environmental Resource Management 3
EVR 5355 Environmental Resource Policy 3
EVR 6950 Graduate Seminar 3
EVR 6971 Master’s Thesis 6
One course in Research Methods or Analysis 3

*Selected in consultation with student’s thesis advisor

Graduate Concentrations for the Master of Science in Environmental Studies

The Department of Environmental Studies currently offers graduate-level concentrations in three different areas. These are 1) energy management, and 2) biological management, and 3) pollution management. Electives for each of these concentrations are outlined below, as of November, 1996.

Energy Management Concentration

Graduate-level electives within the Department of Environmental Studies:
EVR 5300 Topics in Urban Ecology
EVR 5312 Renewable Energy Sources

EVR 5315 Energy Resources and Systems Analysis
EVR 5353 International Energy Policy
EVR 5410 The Human Population and Earth’s Ecosystems
EVR 6322 Methods in Sustainable Resources Management
EVR 6970 Thesis Research

Approved graduate-level electives in other departments:
ECP 6305 Advanced Environmental Economics
ENV 5008 Appropriate Technologies for Developing Countries
ENV 5105 Air Quality Management
ENV 5126 Air Pollution Control
GLY 5246 Geochemistry
GLY 5816 Economic Geology
INR 5935 Environment and Development
PUP 6006 Public Policy Analysis and Evaluation

Biological Management Concentration

Graduate-level electives within the Department of Environmental Studies:
EVR 5067 Tropical Forest Conservation/Utilization
EVR 5300 Topics in Urban Ecology
EVR 5360 Protected Area Management
EVR 5405 International Biological Cons. Accords
EVR 5406 U.S. Endangered Species Management
EVR 5410 The Human Population and Earth’s Ecosystems
EVR 6322 Methods in Sustainable Resources Management
EVR 6329 Watershed Analysis and Management
EVR 6970 Thesis Research
EVS 5145 Ecotoxicology
EVS 5194 Applied Soil Biology
EVS 5637 Ecological Risk Assessment

Approved graduate-level electives in other departments:
ECP 6305 Advanced Environmental Economics
BOT 5605 Plant Ecology
BOT 5816 Ethnobotany
BSC 5596C Environmental Instrumentation
BSC 5825 Wildlife Biology
INR 5935 Environment and Development
OCA 5564 Marine Ecology
Graduate-level electives within the department of Environmental Studies

**EVR 5141** Environmental Nuclear Chemistry

**EVR 5236** Air Pollution Dynamics

**EVR 5300** Topics in Urban Ecology

**EVR 5312** Renewable Energy Sources

**EVR 5410** The Human Population and Earth's Ecosystems

**EVR 6322** Methods in Sustainable Resources Management

**EVR 6970** Thesis Research

**EVS 5145** Ecotoxicology

**EVS 5637** Ecological Risk Assessment

Approved graduate-level electives in other departments:

**BSC 5596C** Environmental Instrumentation

**ECP 6305** Advanced Environmental Economics

**CHM 5423** Air Chemistry

**CHM 5765** Aquatic Chemistry

**ENV 5007** Environmental Planning

**ENV 5105** Air Quality Management

**ENV 5116** Air Sampling Analysis

**ENV 5126** Air Pollution Control

**ENV 5335** Advanced Hazardous Waste Treatment Processes

**ENV 5356** Solid Wastes

**ENV 5517** Water and Wastewater Treatment

**ENV 5666** Water Quality Management

**GLY 5857** Geology for Engineers and Environmental Scientists

**INR 5935** Environment and Development

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**Course Descriptions**

**Definition of Prefixes**

EVR-Environmental Studies.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

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**EVR 5061 South Florida Ecology: Field Studies (3).** Introduction to ecology of South Florida. Series of field trips to unique ecosystems (Everglades, hardwood hammocks, coastal regions). No science background required. Intended for teachers. Not intended for Environmental Studies graduate students.

**EVR 5065 Ecology of Costa Rican Rainforest (3).** Intensive study of Central American tropical forest ecosystems conducted for two weeks in Costa Rica in sites ranging from lowland to high mountains. Primarily for teachers. Prerequisites: Graduate standing or Permission of the instructor. (SS)

**EVR 5066 Ecology of the Amazon Flooded Forest (3).** Study of the ecology of the flooded forest with emphasis on the relationships between plants and animals and the annual flooding cycle. The course includes a two-week field study at river camp in Peru. Prerequisites: Graduate standing or Permission of the instructor. (SS)

**EVR 5067 Tropical Forest Conservation and Utilization (3).** Distribution and classification of tropical forest ecosystems, their description and the ecological principles governing their function. Factors influencing tropical forest utilization and destruction, and strategies for sustainable use and conservation. Prerequisites: EVR 5355 or Permission of the instructor.

**EVR 5141 Environmental Nuclear Chemistry (3).** Nuclear reactions and the nature of radioactivity. Properties and uses of radioactive isotopes, fission, and fusion. Introduction to reactor technology. Consent of instructor required.

**EVR 5236 Air Pollution Dynamics (3).** A course designed to give an understanding of the factors of atmospheric pollutants. Scavenging processes in the atmosphere; radiation, residence times, chemical reactions, global transport process, point source dispersion and modeling calculations. Prerequisite: EVS 3360 or EVR 4231.

**EVR 5300 Topics in Urban Ecology (3).** Topics include urban and suburban ecosystems emphasizing energy relations, ecological functions of urban landscapes, urban wildlife, urban forestry and ecological issues relevant to human health and well-being. Prerequisites: PCB 3043 or Permission of the instructor.

**EVR 5313 Renewable Energy Sources (3).** An analysis of renewable energy sources and energy efficiency including wind, biomass, geothermal, hydroelectric, solid waste, solar heating, solar cooling, and solar electricity. Prerequisite: Permission of the instructor.


**EVR 5320 Environmental Resource Management (3).** The scientific and philosophical basis for the management of renewable and non-renewable energy, mineral, air, water, and biotic resources. Prerequisite: Graduate standing or Permission of the instructor. (F)

**EVR 5350 International Organizations & Environmental Politics (3).** The role of international organizations in environmental politics and the process of their formation and change in response to environmental problems. Prerequisite: Graduate standing or permission of the instructor.

**EVR 5353 International Energy Policy (3).** Focuses on the distribution of global energy resources and related issues. A comparison of the energy policies of various countries serves as the basis for exploring alternative energy policy approaches. Prerequisites: EVR 5355 or Permission of the instructor.

**EVR 5355 Environmental Resource Policy (3).** A survey of international and national environmental policy and the legal, economic, and administrative dimensions of international accords and selected U.S. law. Prerequisites: EVR 5320 or Permission of the instructor. (S)

**EVR 5360 Protected Area Management (3).** Interdisciplinary examination of ecological, administrative, and socioeconomic aspects of managing protected natural areas. Case studies from developed and developing nations.

**EVR 5405 International Biological Conservation Accords (3).** Survey of international biological conservation agreements. Topics include bilateral migratory wildlife agreements, the Berne Convention on Migratory Wildlife, CITES, Ramsar, the UNCED Biodiversity Treaty and the Statement of Principles on Forests. Prerequisites:
EVR 5355 or Permission of the instructor.

EVR 5406 U.S. Endangered Species Management (3). History and implementation of the U.S. Endangered Species Act. Topics include legal and administrative aspects, reauthorization, procedures for recovery planning and conflict resolution, and biological measures of success. Prerequisites: EVR 5355 or Permission of the instructor.

EVR 5410 The Human Population and Earth's Ecosystems (3). Explores the impact of the human population of Earth's ecosystems. Reviews current population data at global, regional, and local scales. Includes study of specific South Florida carrying capacity issues.

EVR 5907 Research and Independent Study (VAR). The student works with a professor on a research project. Variable credit.

EVR 5935 Special Topics (VAR). A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 5936 Topics in Environmental Studies (3). An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 6322 Methods of Sustainable Resource Management (3) A study of methods and policies for achieving a sustainable environment. Covers project appraisal, resource modeling and national accounts in the context of resource sustainability. Prerequisite: Graduate standing or permission of the instructor.

EVR 6329 Watershed Analysis and Management (3). An examination of the watershed approach to managing water and land resources. Integrating fundamental physical, chemical, and biological processes with human systems at the landscape scale using GIS.

EVR 6950 Graduate Seminar (1) A weekly seminar that features guest speakers, student presentations, and discussions among graduate students and faculty. Environmental Studies graduate students are required to register during three semesters of their program. Prerequisite: Permission of the instructor.

EVR 6970 Thesis Research (1-12) Supervised research towards completion of Master's Thesis. Repeatable. Prerequisite: Permission of Major Professor.

EVR 6971 Master's Thesis (1-12) Completion of Master's Thesis. Repeatable. Prerequisite: Permission of Major Professor.

EVS 5145 Ecotoxicology (3). Fate of chemicals and their acute and chronic toxicological effects on aquatic and wildlife systems. Dose-response relationships, bioavailability, bioconcentration, microbial degradation, and biomonitoring. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

EVS 5194 Applied Soil Biology (3). Examines biology of soil organisms and biologically-mediated chemical transformations occurring in soil ecosystems. Prerequisite: BSC 1011.

EVS 5637 Ecological Risk Assessment (3). Evaluation of risks of foreign chemicals to aquatic and terrestrial systems. Concepts and methodology used in the hazard and risk assessment of toxic effluents, chemical/oil spills, and contaminated sediments. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.
Forensic Science

Jose R. Almirall, Assistant Professor
and Graduate Program Director
Kenneth Furton, Associate Professor
and Director, IFRI

Administered by the International Forensic Research Institute (IFRI) the Master of Science in Forensic Science is an interdisciplinary program designed to prepare students for careers in local, state and national forensic science laboratories. The program may also be suitable preparation for doctoral instruction in several disciplines.

Admission Requirements

To be admitted into the Master's degree program in Forensic Science, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.*
2. Have a 3.0 GPA in upper-level course work and a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam.
3. Two letters of recommendation of the student's academic potential.
4. Be accepted by a faculty sponsor.
5. Receive approval from the Graduate Committee.
6. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

*Minimum requirement is the equivalent of a bachelor's degree in biology, chemistry or related science approved by the graduate committee. It is recommended that students have the equivalent of a minor in chemistry before taking the required courses.

Degree Requirements

The Master of Science in Forensic Science consists of a minimum of 32 credits, including a thesis based upon the student's original research. A maximum of six credits of post-baccalaureate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee. The graduate committee will consist of the Graduate Program Director and a member from each of the following departments: Chemistry, Biology, Medical Laboratory Sciences, Criminal Justice and Psychology. The thesis committee shall consist of the research advisor (normally the faculty sponsor), and at least two additional committee members who have some expertise in the graduate student's research area.

Required Courses:

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<th>Course Code</th>
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¹Equivalent courses in the student's area(s) of thesis concentration may be substituted upon approval by the thesis committee in consultation with the Graduate Program Director (i.e., CCJ, GLY, MLS, PHY, PSY). ²At least fifteen credits of additional graduate-level courses, workshops and laboratories (excluding research and seminar) from participating departments approved by the thesis committee in consultation with the Graduate Program Director. [Consult the Director for a selected list of Chemistry, Biology, Geology, Criminal Justice, Legal Psychology, and Medical Laboratory Sciences courses].

Graduation Requirements

A grade of "C" or higher must be obtained in all courses with a cumulative average of 3.0/4.0 or higher, and presentation and submission of a satisfactory research thesis to the Thesis Committee.
Geology

Gautam Sea, Professor and Chairperson
William Anderson, Assistant Professor
Bradford Clement, Professor
Laurel Collins, Assistant Professor
Greville Draper, Professor
David Genevex, Associate Professor
Rosemary Hickey-Vargas, Professor
Michael Gross, Associate Professor
Jose Longoria, Professor
Andrew Macfarlane, Associate Professor
Florentin Maurrasse, Professor
Edward Robinson, Research Associate
Surendra Saxena, Professor
Neptune Sermal, Visiting Assistant Professor
Dean Whitman, Associate Professor

The department offers the Master of Science Degree and Doctor of Philosophy Degree in Geology with opportunities for concentrated studies in structural geology/tectonics, igneous petrology/geochemistry/economic geology, hydrogeology and environmental geology, stratigraphy/sedimentology, paleobiology, paleoecology and geophysics/paleomagnetics. In addition, students may select a concentration in the regional geology of Southern Florida, the Caribbean, and Latin America, including problems related to the above-mentioned fields. Overall, the graduate program emphasizes a multidisciplinary approach to solving geologic and environmental problems, and stresses the importance of field observation complemented by laboratory analysis.

The department is well-equipped with advanced and basic geological instrumentation. Major on-site analytical facilities are the electron microprobe (JEOL-8900), Scanning Electron Microscope (JEOL-5900), inductively coupled plasma emission spectro-analyzer (Jobin Yvon 70), and the paleomagnetism laboratory with cryogenic magnetometer. In addition the department owns a complete array of instruments for field geophysics and for field hydrologic studies, and two vehicles for transportation to local field sites. The department has facilities for micropalaeontological studies, research in high pressure experimental petrology and experimental structural geology, a class 100 clean laboratory for processing isotopic samples, and a microscopy lab with heating/freezing stage for fluid inclusion studies. Excellent facilities for chemical analysis of water are also available through formal connections with the Southeast Environmental Research Center.

Application Procedures

Admission decisions to the Program will be made by the Department’s Graduate Admission Committee.

To be considered for admission applicants must submit the following documents prior to the admission deadlines.

1. FIU Graduate Application Form.
2. Certified transcripts of all college level work. When applicable, a certified English translation must accompany the original.
3. Graduate Record Examination scores taken within the previous two years, sent from the Education Testing Service.
4. Scores of English proficiency, when applicable, sent from the Education Testing Service.
5. Curriculum vitae or resume with pertinent information regarding applicant’s previous experience and achievements.
6. A statement of intent, including a brief discussion (not to exceed 2000 words) of educational goals and career projections. The applicant may also include a copy of previous written scientific work.
7. Three letters of recommendation from former professors or academic advisors.

The Graduate Application Form, official transcripts, official GRE and TOEFL scores should be sent directly to the Office of Admissions, Florida International University, Miami, FL 33199, with the application fee. A copy of the application form, together with the curriculum vitae or resume, statement of intent and letters of recommendation should be sent to the Graduate Coordinator, Department of Geology, Florida International University, Miami, FL 33199.

Admission

To be admitted to the Graduate Program in Geology, a student must meet the following minimum requirements:

1. Hold a Bachelor’s or Master’s degree from an accredited college or university in a relevant discipline of science, engineering or mathematics.
2. Have a grade point average (GPA) of 3.0 or higher (or equivalent) during the last two years of undergraduate program, and 3.0 or higher during the Master’s degree program.
3. Have a minimum combined score of 1000 on the verbal and quantitative sections of the Graduate Record Examination (GRE).
4. Provide at least three letters of recommendation from persons qualified to evaluate the applicant’s potential for graduate work.
5. Students whose native language is not English must demonstrate an adequate level of proficiency in English as a foreign language. A score above 500 on the TOEFL (Test of English as a Foreign Language) of the Educational Testing Service is required.
6. Meet the University’s general requirements for admission to graduate programs.

Financial Aid

The Geology Department offers a number of graduate teaching and research assistantships which are awarded each semester on a competitive basis. The assistantships provide a stipend and waiver of tuition, and are usually not awarded to students pursuing the Non-Thesis Track M.S. degree. Applicants interested in an assistantship should indicate this on the FIU Graduate Application form. In order to be considered for an assistantship the applicant should be submitted by February 15 for the Fall semester admission and by October 1 for Spring semester admission. Applicants seeking research assistantships should contact individual faculty members in their area of research interest.

Master of Science in Geology

The Master of Science degree is conferred upon successful completion of the requirements (listed below) of either the Thesis Track or Non-Thesis Track option of the degree program.

Thesis Track: Course Requirements: 36 credits, including:

- GY 5931/GY 6931, Graduate Seminars 2
- Courses in field of specialization 18
- GY 6971, Thesis 6
- Electives 10

Courses in the field of specialization and electives are chosen by the student in consultation with a faculty advisor. These courses are selected to fit the student’s particular professional goals and to ensure sufficient depth and breadth of geological knowledge.
Thesis Track: Graduation Requirements

1. A minimum GPA of 3.0 in all coursework counted toward the 36 credits required for the Master's degree.
2. Satisfactory completion and defense of a thesis proposal and an original research thesis.

Non-Thesis Track: Course Requirements:
36 credits, including:
- Courses in field of specialization 18
- Electives 18
Electives may include at most 3 credits of Supervised Research (GLY 6910) leading to a research paper.

Non-Thesis Track: Graduation Requirements:
A minimum GPA of 3.0 in all coursework counted toward the 36 credits required for the Master's degree.

Doctor of Philosophy

The Doctor of Philosophy in Geology is conferred based on satisfactory completion of required coursework, a demonstrated mastery of a broad field of knowledge, and the ability to conduct original and independent research. A minimum of 90 credit hours beyond the Bachelor's degree is required for the Ph.D. A minimum of 24 credit hours are devoted to research toward the Ph.D. Dissertation. A maximum of 30 credit hours may be transferred from other graduate programs with the approval of the Departmental Graduate Committee.

Course Requirements
GLY 5931/GLY 6931, Graduate Seminars 2
Formal graduate level courses (non-research courses chosen in consultation with the major advisor) 30
GLY 7980, Dissertation Research 24
The remaining 34 credits may be either formal graduate level courses or independent study and special projects, selected in consultation with the major advisor.

Graduation Requirements
1. A minimum GPA of 3.0 in all course work required for the Ph.D. degree.
2. Satisfactory performance on qualifying examinations on general geological knowledge and the field of subspecialization. Failure to pass this examination will terminate the student's enrollment in the program.
3. Completion and successful defense of a dissertation. Members of the dissertation committee will be jointly determined by the student's advisor and the Graduate Admission Committee.

Participation in Instructional Activities
All students in the program are required to participate in instructional aspects of the Department as teaching assistants. Specific assignments may include supervision of laboratories, assistance on field trips, or curatorial duties.

Fields of Concentration
Geophysics/Paleomagnetism
Geophysical investigative techniques using gravity, magnetism, seismic reflection and refraction, earthquake seismology, and thermal properties. Land-based geophysical studies of the Caribbean and South American seismicity and crustal structure.

Hydrogeology/Environmental Geology
Field and modeling approaches to groundwater flow and solute fluxes in subsurface and near subsurface environments. Interaction of surface water and groundwater, solute transport, chemical and isotopic tracing techniques, watershed hydrology in south Florida, other U.S. locations, and Central America.

Igneous Petrology/Geochemistry/Economic Geology
Research problems in petrology/geochemistry of igneous and metamorphic rocks with reference to their origin, and relationships in time and space. Origin of hydrothermal and other economic deposits. Field occurrence, geochemistry and petrogenesis of crystalline rocks, especially those of the Caribbean region and South America. Generation of associated (often, economically significant) hydrothermal deposits. Application of trace element and isotope geochemistry to the study of these petrogenetic associations.

Paleobiology/Paleoecology
Research applied to taxonomy, phylogeny, evolutionary processes, paleoecology, taphonomy, and biostratigraphy as applied to select fossil groups. Zonal distribution, facies analysis, and paleoecology of different groups of fossils. Specialization may be in macrofossils or microfossils, applied to several aspects of the paleobiology of particular fossil groups, including biodiversity, paleoecology, response to global climatic changes, oceanographic or environmental and time relationships of selected organisms.

Regional Geology
Multidisciplinary geologic research applied to a specific geographic area.

Stratigraphy/Sedimentology
Sedimentary petrology, sedimentary environments, paleo-oceanography, sequence stratigraphy, cyclic stratigraphy, microfacies analysis, and basin analysis. Field and laboratory techniques applied to solution of problems in these topics, especially as applied to sedimentary rock sequences of south Florida, the Caribbean, and Mesoamerica. Evolution of the sedimentary basins of these regions and their relationships to global and regional tectonics.

Structural Geology – Tectonics
Field-oriented research on methods of structural analysis. Analysis of geologic deformations based upon the principles of mechanics and utilizing research data from laboratory and field investigations of folding, fabrics, fracture, and faulting. Structural geology of the Caribbean and South America.

Course Descriptions
Note: Laboratories may not be taken prior to the corresponding lecture course. Laboratories must be taken concurrently where noted, but students must register for the laboratory separately.

Definition of Prefixes
EV-S-Environmental Science; GEO-Geography/Systematic; GLY-Geology; MET-Meteorology; OCE-Oceanography; OCG-Oceanography-Geological; OCP-Oceanography/Physical; F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

GLY 5021 Earth Sciences for Teachers (3). Study of geological materials and processes, as covered in Physical Geology, but at a higher level and with additional assignments. Prerequisite: Permission of the instructor. Corequisites: GLY 5021L. (F,S,SS)

GLY 5021L Earth Sciences for Teachers Laboratory (1). Study of the properties of minerals and rocks; interpretation of topographic and geologic maps; study of the geology of Florida, including field trips. Prereq-
GLY 5158 Florida Geology (3). Detailed stratigraphic and Biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisite: GLY 3511 and GLY 3511L. (S in alternate years)

GLY 5246 Geochemistry (3). GLY 5246L Geochemistry Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry. (S in alternate years)

GLY 5251 Water-Rock Interaction (3). Survey of geochemical processes at the water-rock interface. Topics include absorption of inorganic and organic ions, colloid stability in groundwater, mineral dissolution and precipitation. Prerequisites: CHM 1046, MAC 2312, GLY 4311 or permission of the instructor.

GLY 5283C Application of ICPES in Geochemistry (3). Determination of elemental abundances in rocks, soils, natural water using inductively coupled plasma emission spectroscopy (ICPES). Instrumental principles, sample selection and preparation methods and application of results to research. Prerequisites: CHM 1045, CHM 1046 or permission of the instructor. (S or SS)

GLY 5284 Electron Microprobe and Scanning Electron Microscopy (3). Involves imaging and analysis of geological and other materials using Electron Probe and Scanning Electron Microscope. (F)

GLY 5284L Electron Microprobe and Scanning Electron Microscopy Lab (1). Involves imaging and analysis of geological and other materials using Electron Probe and Scanning Electron Microscope. (F)

GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: GLY 5286L. (F)

GLY 5286L Research Instrumentation and Techniques in Geology Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: GLY 5286. (F)

GLY 5298 Topics in Geochemistry (3). Seminar covering current research in selected areas of low-temperature geochemistry: oceans and oceanic sediments; continental waters and sediments; hydrothermal systems. Prerequisite: GLY 4555 or Permission of the instructor. (F)

GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of the instructor. (S)

GLY 5335 Metamorphic Geology (3). Metamorphic mineralogy; characteristics of low, medium and high pressure metamorphic rocks; pressure-temperature determinations; metamorphic textures; modeling and determination of P-T-t paths. (F)

GLY 5335L Metamorphic Geology Lab (1). Petrographic examination of metamorphic rocks. (F)

GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetic aspects, geochemistry, paleontology, mineralogy, and microfossils. Emphasizes microsopic study. Prerequisite: GLY 4555. Corequisite: GLY 5346L. (F in alternate years)

GLY 5346L Sedimentary Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4555 and GLY 4555L. Corequisite: GLY 5346. (F in alternate years)

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems of natural rock deformation. Prerequisites: GLY 4400, MAC 3413, or Permission of the instructor. Corequisite: GLY 5408L. (S)


GLY 5415 Caribbean Geology and Tectonics (3). Integration of geologic and geophysical data to understand the evolution and present tectonic configuration of the Caribbean area. Prerequisite: Permission of the instructor.

GLY 5425 Tectonics (3). Properties of the lithosphere; plate kinematics and continental drift; characteristics of plate boundaries; mountain belts; formation of sedimentary basins. Prerequisites: GLY 1010, 1100, 4400, 4310, 3200 or Permission of the instructor. (S)

GLY 5446 Topics in Structural Geology and Tectonics (3). Selected advanced topics in structural geology and rock deformation. Latest advances in crustal tectonics. Prerequisite: GLY 5408. (S)

GLY 5455 Physical Volcanology (3). Description of volcanoes and their products, geophysical and tectonic constraints on volcanic processes, and modeling and forecasting of volcanic eruptions. Prerequisite: GLY 4450, GLY 4310 or Permission of the instructor. (F in alternate years)

GLY 5457 Analysis of Geophysical Data (3). Reduction and interpretation of geophysical data, including time series analysis, continuation of potential fields. Three-dimensional modeling of gravity, magnetic data, integrated geophysical surveys. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457L. (F)

GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and three-dimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457. (F)

GLY 5495 Seminar in Geophysics (3). Detailed investigation of current geophysical techniques, including topics on instrument design. Prerequisite: GLY 5457 or Permission of the instructor. (S)

GLY 5546 Topics in Stratigraphy (3). Discussion of research projects and/or current literature in stratigraphic correlation as derived from sedimentologic principles and biozonation. Prerequisite: GLY 5346. (F,S)

GLY 5608 Advanced Paleontology I (3). Discussion of current literature and research projects on evolution, systematics functional morphology, with reports by members of the seminar. Prerequisites: GLY 4650, GLY 5609, or Permission of the instructor. (F)
GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Microscopic study of biostratigraphic type sections from the Caribbean area. Emphasis on planktonic foraminifera and radiolaria, paleoecologic and paleoclimatic interpretations. Prerequisite: GLY 4650 or Permission of the instructor. (F)

GLY 5754 Applied Remote Sensing in the Earth Sciences (3). Application of remote sensing and image analysis in the earth sciences; qualitative and quantitative satellite image and air photo interpretation. Emphasis is on use of computer processing packages. Prerequisites: GLY 1010 or consent of instructor.

GLY 5776 GIS and Spatial analysis for Earth Scientists (3). Application of GIS technology to spatial problems in the Earth Sciences. Topics include: spatial statistics, sampling theory, surface estimation, map algebra, and suitability modeling.

GLY 5785 Caribbean Shallow-Marine Environments (3). Field study of multiple tropical environments in the Caribbean area. Dynamic processes and coastal evolution in response to natural and human-induced changes.

GLY 5786 Advanced Field Excursion (3). A study of the geology of a selected region of the world followed by 10-12 day field trip in order to study the field relationships of the geologic features. Special emphasis is given to stratigraphic, structural and tectonic relationships of lito-tectonic package. Prerequisite: Permission of the instructor. (SS)

GLY 5808 Mining Geology (3). Application of theoretical models of ore formation to exploration and the use of geochemical and geophysical techniques in the search for ore deposits. Prerequisites: GLY 4311 and CHM 1046. (F)

GLY 5816 Economic Geology (3). Economically important metal deposits of sedimentary, igneous and hydrothermal origins and their geologic settings and characteristics. Prerequisites: GLY 1010, GLY 4311, CHM 1045, CHM 1046. (S)

GLY 5824 Water-Rock Interaction (3). Survey of geochemical processes at the water-rock interface. Topics include absorption of inorganic and organic ions, colloid stability in groundwater, mineral dissolution and precipitation. Prerequisites: CHM 1046, MAC 3312, GLY 4311 or Permission of the instructor.

GLY 5826 Hydrogeologic Modeling (3). Techniques used in modeling groundwater flow and solute transport in geologic systems. Case studies of significant aquifers. Prerequisites: GLY 5827, MAP 2302, or Permission of the instructor. (SS)

GLY 5827 Hydrogeology (3). Physics of flow in geological media. Saturated and unsaturated flow, groundwater and the hydrologic cycle, estimating hydraulic parameters of aquifers, introduction to chemical transport. Prerequisite: GLY 1010, MAC 2312, and PHY 2053, or Permission of the instructor. (F)

GLY 5827L Hydrogeology Lab (1). Laboratory, field, and computer exercises to complement GLY 5827. (F)

GLY 5828 Chemical Hydrogeology and Solute Transport (3). Quantitative analysis of hydrologic, geologic, and chemical factors controlling water quality and the transport and fate of organic and inorganic solutes in the subsurface. Prerequisites: GLY 5827. (S)

GLY 5857 Geology for Environmental Scientists and Engineers (3). Characterization of rocks and rock masses; geological maps; seismic hazards; weathering of rocks; hydrologic cycle; slope stability; coastal processes; geophysical techniques. Course includes field trips in the South Florida region. Prerequisites: CHM 1045, GLY 1010 or Permission of the instructor. (S)

GLY 5931 Graduate Seminar (1). Presentation or critical examination of current research problems in geology. A selection of topics is considered each term. Topics may also include individual research in the student's field of investigation. Prerequisite: Graduate standing or Permission of the instructor. (F, S, SS)

GLY 6159 Stratigraphy of the Circum Caribbean Region (4). Detailed lithostratigraphic and biostratigraphic analyses of Caribbean islands, Central America, northern South America and Caribbean basin. Prerequisite: GLY 5621 or Permission of the instructor. (SS)

GLY 6247 Trace Element and Isotope Geochemistry (3). Principles of trace element and isotope fractionation and radioactive decay, and their application to the interpretation of igneous rocks and the chemical evolution of the earth. Prerequisite: GLY 5246 or Permission of the instructor. Corequisite: GLY 6247L. (S)

GLY 6328 Advanced Igneous Petrology (3). Interpretation of igneous rocks; chemistry and physics of magma generation and crystallization; origin of major igneous rock series with emphasis on tectonic controls. Prerequisite: Permission of the instructor. Corequisite: GLY 6328L. (S)

GLY 6328L Advanced Igneous Petrology Lab (1). Identification of rocks using microscopic and microprobe techniques. Prerequisite: Permission of the instructor. Corequisite: GLY 6328. (S)

GLY 6337 Metamorphic Phase Equilibria (3). Theory and methods of calculation of metamorphic phase equilibria and P-T paths using appropriate analysis of composition space, activity models, thermometry, geobarometry. Origin and interpretation of zoning in metamorphic minerals. Prerequisites: GLY 5335 or Permission of the instructor. (F)

GLY 6345 Sedimentary Petrography Laboratory (1). Laboratory studies of sedimentary rocks thin section. Prerequisites: GLY 4555 or permission of the instructor. Corequisite: GLY 6345. (F)

GLY 6353 Microfacies Analysis (3) GLY 6353L Microfacies Analysis Laboratory (1). Identification and interpretation of the fossil and mineralogical constituents of sedimentary rocks in thin section. Emphasis is placed on the paleoecological significance of fossil remains in carbonates. Prerequisites: GLY 4555 or Permission of the instructor. (S)

GLY 6392 Topics in Igneous Petrology and Geochemistry (3). Research seminar in contemporary petrology and geochemistry. Student presentation on thesis research. Prerequisite: GLY 5322 or Permission of the instructor. (F, S)
GLY 6427 Quantitative Geotectonics (3). Application of continuum mechanics and heat transfer to problems in geology. Observational constraints on earth properties. Emphasis is on problems relating to the earth's lithosphere. Prerequisites: GLY 4450, GLY 4400, GLY 5425 and MAP 3302 or Permission of the instructor. (F in alternate years)

GLY 6444 Quantitative Analysis of Joints and Faults (3). Application of fracture mechanics to geologic problems, including the analysis of local and regional stress fields, bedrock fracture systems, estimation of fracture related strain, and the influence of mechanical properties on rock failure. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or Permission of the instructor. (F in alternate years)

GLY 6447 Advanced Topics in Structural Geology and Tectonics (3). Detailed exploration of selected research topics in structural geology and tectonics. Prerequisites: GLY 5446 or Permission of the instructor. (F, S)

GLY 6448 Stress in the Earth's Crust (3). The distribution and magnitude of stress in the earth's crust, laboratory derived values for earth stress, in situ stress measurements, regional stress patterns and sources of stress in the lithosphere. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or Permission of the instructor. (S)

GLY 6468 Paleomagnetism (3). Physics of rock and mineral magnetism, geomagnetism and paleomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostratigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3001 or Permission of the instructor. Corequisite: GLY 6468L. (F)

GLY 6468L Paleomagnetism Laboratory (1). Physics of rock and minerals magnetism, geomagnetism and paleomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostratigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3001 or Permission of the instructor. Corequisite: GLY 6468. (F)

GLY 6485 Physics of the Earth (3). Properties and dynamics of the Earth's interior studied from a physical perspective. Topics include heat flow, fluid flow, earthquake seismology. Prerequisites: GLY 4450 and MAC 3313. (F)

GLY 6496 Advanced Topics in Geophysics (3). Discussion of research projects and current literature in geophysics. Prerequisite: GLY 5495. (S)

GLY 6592 Basin Analysis (3). Analysis of sedimentary basins based on their origin, paleogeographic evolution and tectonic setting. Emphasis is placed on the tectonic evolution and economic potential of sedimentary basins. (S in alternate years)

GLY 6592L Basin Analysis Lab (1). Analysis of different types of sedimentary basins using a case history approach. Corequisite: GLY 6592. (S in alternate years)

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and survey of relevant literature with reports by members of the seminar. Prerequisite: GLY 5546. (S in alternate years)

GLY 6626 Stratigraphic Micropaleontology: Foraminifera (3). Nomenclature, taxonomy, and biostratigraphy of Cretaceous and Cenozoic planktonic foraminifera. Studies of stratigraphically important taxa from Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or Permission of the instructor. (F in alternate years)

GLY 6627 Stratigraphic Micropaleontology: Radiolarians (3). Nomenclature, taxonomy and biostratigraphy of Cretaceous and Cenozoic radiolaria. Studies of stratigraphically important taxa using Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or Permission of the instructor. (S in alternate years)

GLY 6628 Stratigraphic Micropaleontology: Calcareous Nannofossils (3). Nomenclature, taxonomy, and biostratigraphy of Triassic to Recent nannofossils. Intensive training of identification of marker taxa using land and DSDP/ODP sites. Prerequisites: GLY 5621 or Permission of the instructor. (S in alternate years)

GLY 6690 Topics in Paleontology (3). Oral presentation and discussion of current research projects and relevant literature, with reports by members of the seminar. Prerequisite: GLY 5608 or Permission of the instructor. (F)

GLY 6809 Hydrothermal Geochemistry (3). The mineralogy, thermodynamics, chemistry and isotope chemistry of hydrothermal and geothermal systems, with an emphasis on the transport of solutes in hydrothermal solutions and ore-forming processes. Prerequisites: GLY 5246, CHM 3400 or Permission of the instructor. (S in alternate years)

GLY 6829 Advanced Topics in Hydrology (1-3). Research-oriented seminar course involving analysis of several contemporary topics chosen from the current literature in hydrology. Specific topics vary. May be repeated. Prerequisites: GLY 5827 and one other graduate level hydrology/hydrogeology course, or Permission of the instructor. (S in alternate years)

GLY 6862 Numerical Methods in the Earth Sciences (3). Numerical techniques used by geoscientists, with emphasis on finite-difference and finite-element techniques to solve equations governing fluid flow and mass transport in geological systems. Prerequisites: MAP 3302, GLY 5827 and knowledge of one programming language or Permission of the instructor.

GLY 6910 Supervised Research (1-12). Research apprenticeship under the direction of a professor or a thesis advisor. Prerequisites: Full graduate admission and permission of the instructor.

GLY 6931 Advanced Graduate Seminar (1). Oral presentation and discussion by students of an assigned literature survey, with reports by members of the seminar. Prerequisite: GLY 5931 or permission of the instructor. (F, S)

GLY 6941 Supervised Teaching in the Geosciences (1). Teaching a geological discipline under the supervision of departmental faculty. Prerequisite: Graduate standing.

GLY 6949 Professional Internship in Earth Science (1-3). Semester or summer term of supervised work at an approved government or industry laboratory or field station. Prerequisite: Graduate standing.

GLY 6966 Master's Comprehensive Examination (0). Oral and written examinations on knowledge in general geology and the student's field of concentration. Schedule to be selected in consultation with the Graduate Committee. Prerequisite: Advanced graduate standing. (F, S, S)

GLY 6971 Master's Thesis (1-12). Field and/or laboratory research project toward thesis. Selected in consultation
with major professor. Prerequisite: Permission of major professor. (F,S,SS)

GLY 7980 Dissertation (1-12). Field and/or laboratory research directed towards completion of the doctoral dissertation. Selected in consultation with major professor. Prerequisite: Permission of major professor. (F,S,SS)

OCG 6105 Advanced Marine Geology (3). OCG 6105L Advanced Marine Geology Lab (1). Application of geophysical and geological data to the interpretation of the earth's crust under the oceans, including the data provided by the Deep-Sea Drilling Project, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisite: GLY 4730 or Permission of the instructor. (F in alternate years)

OCG 6664 Paleceanography (3). Mesozoic/Cenozoic development of the major ocean basins, their circulation and sedimentation history. Use of micropaleontologic and stable isotopic techniques in paleceanographic analysis. Prerequisite: GLY 4730 or Permission of the instructor. (F in alternate years)
History

William O. Walker III, Professor and Chairperson
Nina Caputo, Assistant Professor
Daniel A. Cohen, Associate Professor
N. David Cook, Professor
Hugh Elton, Assistant Professor
Rebecca Friedman, Assistant Professor
Christopher Gray, Assistant Professor
Mitchell Hart, Assistant Professor
Sherry Johnson, Assistant Professor
Alan Kahan, Associate Professor
Howard Kaminsky, Professor Emeritus
Lara Kriegel, Assistant Professor
Alex Lichtenstein, Associate Professor
Felice Lifshitz, Associate Professor
Kenneth Lipartito, Professor
Joseph F. Patrouch, Associate Professor
Brian Peterson, Associate Professor
Joyce S. Peterson, Associate Professor and Associate Dean
Darden Ashby Pyron, Professor
Howard B. Rock, Professor
James Sweet, Assistant Professor
Mark D. Szuchman, Professor and Associate Dean
Clarence Taylor, Associate Professor
Victor M. Uribe, Associate Professor and Director of Graduate Studies
Kirsten Wood, Assistant Professor

Master of Arts in History

The Department of History offers the M.A. degree, with concentration in one of four culture areas: United States, Africa, Europe, and Latin America. Students will choose to follow either a thesis or a report track, in consultation with the Department’s Graduate Advisor. Students must make their selection either prior to registering for their first Research Seminar or before completing the first twelve (12) semester-hours toward the degree, whichever comes first. The degree requirements for the M.A. vary somewhat, according to the option taken.

Entrance Requirements

Requirements for admission into the M.A. degree program in History are the same regardless of the option selected. Applicants must also satisfy any additional requirements the University sets for admission to graduate work. Applications should include transcripts from any postsecondary institutions attended, GRE scores, and two (2) letters of recommendation. Applicants seeking entrance for the Fall Term should prepare all application materials in time for the Department of History to receive them no later than February 15. Applicants will be notified of the Department’s decision regarding their application no later than March 15.

Application materials from individuals seeking entrance for the Spring Term must be received by the Department of History no later than October 15. Applicants will be notified of the Department’s decision no later than November 15.

1. Applicants to the M.A. degree program in History must have an undergraduate average of 3.0 (on a 4.0 scale) and score 1000 or better in the Graduate Record Examination. The GRE must be taken within three years prior to the application.

2. Two letters of recommendation. Applicants should ensure that each letter on their behalf is signed by the author along the sealed flap of the envelope. Letters should be mailed directly to the Graduate Advisor, Department of History.

3. Applicants must have completed 12 semester-hours of credit (on the basis of 3-hour courses) in undergraduate courses in History.

Any applicant with fewer than twelve (12) semester-hours of undergraduate courses in History may be accepted provisionally and take a maximum of nine (9) semester-hour credits by registering for courses under the category of Special Student (consult the University Catalog and the Office of Admissions). After completing nine semester-hours of undergraduate courses in History (3000-4000 level) with no grade lower than a “B” (3.0), the student may apply for regular admission. The application will be reviewed by the Department’s Graduate Advisor, in consultation with the Department’s faculty. The GRE and GPA scores are only minimum requirements. All applications are reviewed by the Graduate Studies Committee which makes the final admissions decision.

Degree Requirements

Thesis Option

1. A minimum of 30 semester-hours for the degree, including a maximum of six semester-hours of Thesis Research. All course work must be taken at FIU.

2. A minimum of 24 semester-hours of course work.

3. Two Research Seminars (6 semester-hours).

4. Reading competence in a foreign language. Language competency is assessed by the faculty of the Department of History, as appropriate.

Courses required to meet the language competency requirement do not count towards the degree. The Latin American concentration requires proficiency in Spanish or Portuguese; the modern European concentration in Spanish, French or German; the medieval or ancient concentration in at least one of those modern languages in addition to Hebrew, Latin, Greek or another ancient language as deemed appropriate by the student’s advisor; the United States concentration in any of the above. Language exams will be graded on a High Pass, Pass, and Fail basis.

5. All students are required to take HIS 6059 (Historical Methods). Students may not transfer credits from other programs to fulfill this requirement.

6. The following limits are placed in accumulating credits toward the M.A. degree:

a. No more than three semester-hours of HIS 5908 (Independent Study) are permitted.

b. Students must receive the grade of “B” (3.0) or better in order for any course to count toward the degree.

c. A maximum of six semester-hours of HIS 5930 (Special Topics).

d. Students are prohibited from taking more than one Research Seminar per semester.

e. Students are prohibited from taking graduate-level cross-listed courses that they have already taken at the undergraduate level.

7. Core Area. Students will select one core area for concentration in United States History, European History, African History or Latin American History, in consultation with the Graduate Advisor. Twelve semester-hours of course work will be taken within the core area.

8. Breadth Areas. Students will take six semester-hours in breadth areas. These may be courses taken within the Department of History that are outside the culture area of concentration, or in associated disciplines outside of the Department (with the approval of the Graduate Advisor), or a combination of the two.

9. Students will register for up to six semester-hours of HIS 6970 (Thesis Research).

10. The thesis must be successfully defended and formally approved by a Supervisory Committee composed of three members of the Department of History. The Supervisory Committee is convened and headed by the thesis
supervisor. In cases of cross-disciplinary research, an external reader from a different department may form part of the SupervisoryCommittee, substituting for one member from the Department of History.

11. The degree candidate will prepare the thesis in accordance with the regulations stipulated in the University’s Graduate Policies Manual. The degree will be conferred after the approval of the final version of the thesis by the Office of the Dean of the College of Arts and Sciences.

Report Option

1. A minimum of 30 semester-hours of course work are needed for the M.A. degree. The report option does not set requirements of the Core/Breadth area distribution. Students will design their distribution needs in consultation with the Graduate Advisor and the relevant faculty. All courses must be taken in the Department of History at FIU.

2. A minimum of two Research Seminars (6 semester-hours) must be taken. Only Research Seminar papers (2) that secure relevant faculty approval may be submitted to the Graduate Advisor for process of final approval.

3. The following limits are placed on accumulating credits towards the Master’s degree:

   a. Students must receive the grade of “B” (3.0) or better for the course to count toward the degree.

   b. HIS 5908 (Independent Study) is limited to three semester-hours.

   c. HIS 5930 (Special Topics) is limited to six semester-hours.

   d. HIS 6059 (Historical Methods) is required of all students.

Core Courses

The following courses count for both the Thesis and the Report options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFH 5905</td>
<td>Readings in African History</td>
</tr>
<tr>
<td>AFH 5915</td>
<td>Research in African History</td>
</tr>
<tr>
<td>AMH 5905</td>
<td>Readings in American History</td>
</tr>
<tr>
<td>AMH 5935</td>
<td>Topics in American History</td>
</tr>
<tr>
<td>AMH 6915</td>
<td>Research in American History</td>
</tr>
<tr>
<td>EUH 5905</td>
<td>Readings in European History</td>
</tr>
<tr>
<td>EUH 5935</td>
<td>Topics in European History</td>
</tr>
<tr>
<td>EUH 6915</td>
<td>Research in European History</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAH 5905</td>
<td>Readings in Latin History</td>
</tr>
<tr>
<td>LAH 5935</td>
<td>Topics in Latin History</td>
</tr>
<tr>
<td>LAH 6915</td>
<td>Research in Latin History</td>
</tr>
<tr>
<td>HIS 5289</td>
<td>Comparative History</td>
</tr>
<tr>
<td>HIS 5930</td>
<td>Special Topics</td>
</tr>
<tr>
<td>HIS 5908</td>
<td>Independent Study</td>
</tr>
<tr>
<td>HIS 5910</td>
<td>Advanced Research Seminar</td>
</tr>
</tbody>
</table>

Consultation with the Graduate Advisor is required before registering for the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6059</td>
<td>Historical Methods</td>
</tr>
<tr>
<td>HIS 6970</td>
<td>Thesis Research</td>
</tr>
</tbody>
</table>

Doctor of Philosophy in History

The doctoral program in History offers students opportunities to concentrate on the areas of Latin America, Africa, the United States, or Europe. The program contains an underlying comparative framework based on the civilizations of the Atlantic, which allows students to explore the many dimensions of cross-cultural exchanges. The curriculum thus emphasizes the comparative framework around the Atlantic experience, and reflects the vitality of a cross-disciplinary approach.

Admission to the Program

Every applicant must supply copies of a curriculum vitae, college transcripts, and at least two letters of recommendation. Admission requires a minimum of 1100 combined Verbal and Math GRE scores, and a minimum undergraduate GPA of 3.0. Applicants with M.A. degrees are required to have a graduate GPA of at least 3.25. The GRE History specialty examination is not required, but scores may be submitted if available. For students whose native language is not English, the TOEFL exam is required, with a score of at least 575. A writing sample should be included in the application. For those transferring into the program who already hold the MA, the thesis, when available, should be submitted as the sample. Finally, a short statement addressing the student’s goals and objectives in pursuing the doctorate in history is also required.

All applicants to the Ph.D. program must hold the degree of M.A. or its equivalent. If the M.A. is in a field other than history, at least 12 credits of graduate-level history classes are required for admission. Prospective students who do not meet this requirement may enroll as Non-Degree seeking students in 9 credits of graduate-level courses and complete these with at least the grade of "B" before applying to the program. Enrollment as a Non-Degree seeking student for more than one semester requires departmental permission. The Graduate Committee will determine whether or not these credits apply toward the degree.

Applicants seeking entrance for the Fall Term should prepare all application materials in time for the Department of History to receive them no later than February 15. Applicants will be notified of the Department’s decision regarding their application no later than March 15.

Application materials from individuals seeking entrance for the Spring Term must be received no later than October 15. Applicants will be notified of the Department’s decision no later than November 15.

Degree Requirements

Number of Credits and Nature of Required Courses

A minimum of 60 semester-hours of credit are required beyond the Master of Arts degree of which 9 credits will be taken as a common core consisting of: historical methods, an introductory reading seminar in Atlantic Civilization and a research seminar in Atlantic Civilization. A further 18 credits are required in the student’s core culture area to be chosen from the United States, Latin America, Africa, or Europe. An additional 12 credits are required in geographical/topical areas outside the culture area of concentration. These out-of-area distribution courses may be taken in either History or a cognate discipline. A maximum of 24 hours of credit is required for the dissertation.

Language Requirements

The language requirement may be fulfilled in one of two ways: 1) thorough knowledge of one foreign language and reading knowledge of another are required of all students; or 2) students may demonstrate knowledge of one language and competency in social science quantitative skills. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, Spanish and Portuguese are expected. Language exams will be graded on a High Pass, Pass,
and Fail basis; a High pass is required in the student's primary language. Students should check with the Department's Director of Graduate Studies to determine which languages are appropriate for their program of studies.

Composition of Course Work
A minimum of 60 semester-hours of work after completion of the Master's degree in History are required, of which a maximum of 24 hours are permitted for the doctoral dissertation. The courses form part of the student's development in the field, factual and interpretive, in preparation for the comprehensive written and oral examinations to qualify for doctoral candidacy. A minimum of 27 hours of residency (e.g., three semesters for full-time students) is expected prior to filing for the qualifying examinations. The student may, in consultation with the faculty, decide that more work is necessary before the exams are attempted. The standard course load of nine hours per semester means that the qualifying examinations will usually be administered near the end of the second year of residency, or at the beginning of the third year.

Course Requirements beyond the Master's degree

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Core</td>
<td>9</td>
</tr>
<tr>
<td>Culture Area Concentration</td>
<td>18</td>
</tr>
<tr>
<td>Out-of-Area Distribution</td>
<td>12</td>
</tr>
<tr>
<td>Dissertation</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>63</strong></td>
</tr>
</tbody>
</table>

Common Core Courses: (9)

- Historical Methods
- Advanced Readings in Atlantic Civilization
- Research in Atlantic Civilization

'Historical Methods' may not be transferred from a Master of Arts Program.

Culture Area Concentration Courses: (18 credits minimum from either AFH, AMH, EUH, or LAH core below).

- Readings in African History
- Readings in American History
- Readings in European History
- Readings in Latin American History
- Advanced Readings in American History
- Advanced Readings in European History
- Advanced Readings in Latin American History
- Research in African History
- Research in American History
- Research in European History
- Research in Latin American History

General field concentration: (18 credits from either AFH, AMH, EUH, or LAH below).

Out-of-Area Distribution Courses: (12 credits outside general field concentration or in other departments).

Dissertation Research: (18-24 credits)
The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing. The program expects students to devote a minimum of 18 hours to activities related to the dissertation subsequent to candidacy, that is, after passing the Comprehensive Examinations.

Comprehensive Examinations and the Dissertation.
Following completion of all course work and language competencies, students will be required to pass a written and an oral comprehensive examination, and to write a dissertation. Exams will be administered, as needed, no more than two times each year. Students should consult the Director of Graduate Studies for the date of the exams. The exams will cover knowledge in four fields: 1) a general field; 2) a period/geographical subfield; 3) a comparative field; 4) a methodological and/or interdisciplinary field.

Restrictions
1. The grade of "B" or better is required for graduate credit.
2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without permission of the Director of Graduate Studies.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Director of Graduate Studies.

Course Descriptions

Definition of Prefixes
AFH-African History; AMH-American History; EUH-European History; HIS-General; LAH-Latin American History.

AFH 5905 Readings in African History (3). An examination of historiographical traditions within African history. Topics will vary; with a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 5935 Topics in African History (3). An examination of specific themes in African history. Topics will vary. With a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 6915 Research in African History (3). Research in primary and secondary sources on African History. Subjects may vary. May be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5905 Readings in American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5935 Topics in American History (3). An examination of specific themes or topics in American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

AMH 6906 Advanced Readings in American History (3). Detailed analysis of a selected topic in American History. May be repeated as topics vary. Prerequisite: Graduate standing.

AMH 6915 Research in American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in American History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 5905 Readings in European History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in European history. Subjects will vary according to
professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

**EUH 5935 Topics in European History (3).** An examination of specific themes or topics in European history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

**EUH 6906 Advanced Readings in European History (3).** Detailed analysis of a selected topic in European history. May be repeated as topics vary. Prerequisite: Graduate standing.

**EUH 6915 Research in European History (3).** Students conduct research in primary and secondary sources on aspects of important subjects in European History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

**HIS 5289 Comparative History (3).** A study of specific topics in history that cut across regional, national, and chronological lines. The topics will change from semester to semester, and with a change in content, the course may be repeated. (The theme of the course will be announced in the yearly schedule). Prerequisite: Graduate standing.

**HIS 5908 Independent Study (VAR).** Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor. Prerequisite: Graduate standing.

**HIS 5910 Advanced Research Seminar (3).** Small group sessions will analyze particular subject areas in history, with the consent of the instructor. Prerequisite: Graduate standing.

**HIS 5930 Special Topics (3).** An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

**HIS 5940 Supervised Teaching (1-3).** The students will work under the close supervision of a regular member of the faculty in a mentoring fashion. The supervision will cover various aspects of course design and delivery in history. Prerequisite: Graduate standing.

**HIS 6059 Historical Methods (3).** A seminar designed to introduce the beginning graduate student to the technical aspects of the study of history. Prerequisite: Graduate standing.

**HIS 6159 Historiography (3).** An introduction to the discipline of history, with primary and secondary readings allowing exploration of the evolution of historical schools of thought over several generations. Prerequisite: Graduate standing.

**HIS 6906 Advanced Readings in Atlantic Civilization (3).** A team-taught, comparative course dealing with the interactions between at least two of the geographical fields of concentration. May focus on one or more topics. Required of all Ph.D. students during their first term of study in the program. Prerequisite: Graduate standing.

**HIS 6918 Research in Atlantic Civilization (3).** A research seminar on cross-cultural topics, involving the comparative method. Required of all Ph.D. students in the program, during second term of residence. Topics will vary. Prerequisite: Graduate standing.

**HIS 6970 Thesis Research (1-10).** Research toward completion of Master's Thesis. May be repeated. Prerequisite: Permission of Department.

**HIS 7972 Dissertation Research (1-9).** Research toward the completion of a doctoral dissertation. May be repeated. Prerequisite: Admission to Doctoral Candidacy.

**HIS 7980 Dissertation (1-9).** Completion of Doctoral Dissertation. Prerequisite: Admission to Doctoral Candidacy.

**LAH 5905 Readings in Latin American History (3).** Students read books from different historiographical traditions and with conflicting interpretations about an important subject in Latin American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

**LAH 5935 Topics in Latin American History (3).** An examination of specific themes or topics in Latin American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

**LAH 6906 Advanced Readings in Latin American History (3).** Detailed analysis of a selected topic in Latin American history. May be repeated as topics vary. Prerequisite: Graduate standing.

**LAH 6915 Research in Latin American History (3).** Students conduct research in primary and secondary sources on aspects of important subjects in Latin American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.
International Relations

Damian J. Fernandez, Associate Professor and Chairperson
Ken I. Boodhoo, Associate Professor
Thomas A. Breelin, Associate Professor
John F. Clark, Associate Professor
Ralph S. Clem, Professor
Emily Copeland, Assistant Professor
Peter R. Craumer, Associate Professor
François Debrix, Assistant Professor
Gal M. Hollander, Assistant Professor
Antonio Jorge, Professor
Paul Kowert, Assistant Professor
Charles G. MacDonald, Professor
Felix Martin, Assistant Professor
Carmelo Mesa-Lago, Visiting Professor
Mohiaddin Mefahi, Associate Professor
Rod Neumann, Associate Professor, Director of Graduate Studies
Nicholas G. Ouf, Professor
Patricia L. Price, Assistant Professor
Elisabeth Prugl, Associate Professor
Susan E. Waltz, Professor
William O. Walker III, Professor
Gregory B. Wolfe, Professor

Master of Arts

The Graduate Program in International Studies (GPIS), administered by the Department of International Relations, offers two advanced degrees: a Master of Arts in International Studies and a Doctor of Philosophy in International Relations. The Department emphasizes a multidisciplinary approach to graduate education. This emphasis reflects the many disciplines and perspectives represented in the Department, and it results in a vital and challenging exchange of ideas among students and faculty members. Together they investigate a stimulating range of topics, from the traditional concerns of foreign policy and national security to contemporary global issues such as democratization, the environment, human rights, refugees, and social movements. These scholarly inquiries are generally informed by an engagement with social and political theory, to which students are exposed through a closely coordinated set of graduate reading seminars. Many members of the Department have longstanding regional interests, as do many other members of the University faculty. The program boasts of strengths in Africa, Central Asia, Latin America and the Caribbean, the Middle East, and Russia.

GPIS is an affiliate member of the Association of Professional Schools of International Affairs.

Master of Arts in International Studies

The GPIS M.A. program draws on the curricular resources of all the University’s social science departments. It is designed to prepare students for careers in government, the private sector, or international agencies, or for doctoral studies. The College of Arts and sciences offers certificate programs in African-New World Studies and in Latin American and Caribbean Studies. Other regional certificate programs are planned. GPIS encourages its M.A. students to pursue regional certification in conjunction with their work in the M.A. program.

Admission Requirements

To be considered for admission to the GPIS M.A. program, applicants must have a 3.0 in upper-level work, or its equivalent, from a recognized institution, or a combined score of 1000 on the first two sections of the Graduate Record Examination. For applicants who are not native speakers of English, a minimum of 550 on the TOEFL is required. Scholarships and renewable assistantships are available.

Degree Requirements

The GPIS M.A. program requires a minimum of 36 semester hours of credit at the graduate level. Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 36 hour minimum requirement. The GPIS Advisory Committee may approve the transfer of a maximum of six graduate credits earned in a non-degree capacity from the Department of International Relations, other units of the University, or other recognized institutions of higher education.

Core Sequence (15 credits)

All GPIS M.A. students must complete a core sequence of five courses (15 credits), each of which reflects a distinctive disciplinary point of view. These courses are:
INR 6706 Political Economy of International Relations
INR 5615 Research Design in International Relations
INR 5xxx Space, Place and Identity

Major Field (9 credits)

GPIS M.A. students also must offer a major field of study in (1) Global Institutions and Issues, or (2) International Relations and Foreign Policy, by taking three courses (9 credits) from an extensive list of approved courses in the social sciences. Students must take at least two courses offered by the Department of International Relations to satisfy the field requirement.

Electives: (6 credits)

To satisfy the program’s elective requirement, students may take two additional courses (6 credits) from the field lists. Students wishing to elect other graduate-level courses offered by the University may do so with permission of the GPIS Director.

Thesis and Alternatives (6 credits)

To complete degree requirements, GPIS M.A. students have the option of (a) writing a thesis or (b) taking a comprehensive examination. Before electing any of these options, students must demonstrate competence in the use of a foreign language other than English.

Any student electing (a) to write a thesis will normally take 6 credit hours of thesis supervision and prepare a thesis proposal subject to the approval of three members of the University faculty. A member of the Department of International Relations must chair any thesis committee thus constituted. No thesis may be approved until the writer has defended it in a public examination. Any student electing (b) to take a comprehensive examination must have 6 semester hours of course work (including independent study courses), instead of thesis supervision, for a total of 36 semester hours. One half of the comprehensive examination will cover the core sequence of courses, and the other half will cover the student’s major field.

Doctor of Philosophy in International Relations

The GPIS Ph.D. program is designed to prepare students for careers as scholars and teachers. It provides students with a solid theoretical foundation while allowing individual latitude for
rigorous research on a wide range of subjects. Students work closely with dedicated, internationally recognized scholars.

Admission Requirements
To be considered for admission to the GPIS Ph.D. program, all applicants must have a bachelor's degree, or its equivalent, from a recognized institution of higher education, or have received a bachelor's degree before they matriculate in the program. Applicants should have a minimum undergraduate grade point average of 3.2, or its equivalent, a minimum grade point average of 3.5 for all combined graduate work, or a combined score of 1100 on the first two sections of the Graduate Record Examination. For applicants who are not native speakers of English, a minimum of 575 on the TOEFL is required. Scholarships and renewable assistantships are available. Applications will be reviewed only in the spring term for fall admission. Applications for financial assistance must be completed by February 15, and applications for admission by April 15.

Degree Requirements
The GPIS Ph.D. requires a minimum of 90 semester hours of credit at the graduate level. Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 90 hour minimum requirement. Students earning a GPIS M.A. degree within the last five years may count 36 credits toward the 90 hour minimum requirement. The GPIS Advisory committee may approve the transfer of a maximum of 12 graduate credits earned in a non-degree capacity from the Department of International Relations, and a maximum of 24 semester hours of graduate credit earned in other units of the University or other recognized institutions of higher education.

Core Sequence (18 credits)
All GPIS Ph.D. students must complete a core sequence of six courses (18 credits). These courses are:
INR 5615 Research in International Relations
INR 5xxx Space, Place, and Identity
INR 6604 International Relations Theory I
INR 6608 International Relations Theory II
INR 6609 Dynamics of International in the 20th Century
INR 6706 Political Economy of International Relations

Major and Minor Fields (21 credits)
Students must offer a major field of study in (1) Comparative Area Studies and Global Issues (2) Foreign Policy and Security Studies, or (3) International Law and Institutions, by taking four courses (12 credits) from a list of approved courses. Students must also offer a minor field of study consisting of at least three courses (9 credits), (a) by choosing a second field from the above list, (b) by taking a Ph.D. field in some other teaching unit of the University, or (c) by creating a field in consultation with the GPIS Director and three members of the University faculty.

Electives (27 credits)
To satisfy the Ph.D. program's elective requirement, students must take 27 credits of additional course work, including independent study courses. Students wishing to elect a course or courses offered in the University may do so with permission of the GPIS Director. Students must demonstrate an ability to use a foreign language other than English for scholarly purposes.

Comprehensive Exams
Within 6 months of completing the foreign language requirement and 66 hours of course work, students must sit for written comprehensive examinations on the core sequence in both of their fields. Students may sit for their comprehensive examination during the term in which they complete these requirements. After passing all three parts, students are examined orally on all parts.

Dissertation
Within 3 months of passing written and oral examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least three qualified scholars. Two members of the committee, including the dissertation supervisor, must be members of the Department of International Relations. Other members must be approved by the GPIS Director. Students advance to candidacy when all members of their dissertation committees accept their proposals.

To complete program requirements, Ph.D. degree candidates must enroll for 24 dissertation credits and therefore maintain matriculation until they defend their dissertations in public.

Course Descriptions
Definition of Prefixes
GEA-Geography-Regional (Area); GEO-Geography-Systemic; INR-International Relations; PUP-Public Policy.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

GEO 5415 Topics in Social Geography (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEA 2000 or Permission of the instructor. (S)

INR 5086 Islam in International Relations (3). Analysis of the role of Islam in shaping the dynamics of contemporary international relations. Emphasis on the ideological, cultural, and political role of Islamic movements and states, and their relations with the West. (F)

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics. (S)

INR 5255 Seminar in African Development (3). Examines political, economic and social development in Sub-Saharan Africa in an international context. Introduces students to sources for research in African international development. Prerequisites: Undergraduate course on Africa or graduate status.

INR 5315 Foreign Policy Analysis (3). Comparative examination of theories of foreign policy making, emphasizing the international, domestic, and organizational contexts in which national policies are formulated and enacted. Prerequisites: Graduate standing or Permission of the instructor. (F)

INR 5409 International Law I (3). Role of international law in the relations of states; nature, development, theory, sources of law; international personality; jurisdiction, including territory and nationality; dispute settlement. (F)

INR 5507 International Organizations I (3). Study of international organizations and their role in international relations. Emphasis on
Third World problems such as deforestation and soil erosion. (S)
INR 6089 International Relations and Human Rights (3). Examination of national and international factors affecting respect for human rights. Special emphasis on international human rights groups, foreign policy, and politics of policy implementation. (S)
INR 6107 U.S. Foreign Policy (3). Examines the structures and processes that shape U.S. policy toward other nations. Topics include: systemic constraints, state/society relations, interest groups, bureaucracy, and leadership. (F)
INR 6209 Comparative Foreign Policy of Latin America (3). Theories, history, and political-economic dynamics of Latin American foreign policies and international relations. (S)
INR 6266 Seminar in Russian Foreign Policy (3). Close analysis of the theoretical foundation and policy evolution of Soviet/Russian role in international affairs of the 20th century. (S)
INR 6338 Seminar in Strategic Studies (3). Close analysis of key traditional and non-traditional concepts of the field of Strategic Studies, i.e. the genesis of power, war and peace, security and their relevance to and impact on International Relations. (S)
INR 6402 International Law II (3). The course, which is the second of a two course graduate sequence, focuses on special topics, e.g., treaties, state responsibility, force and jurisdiction. Prerequisite: International Law I.
INR 6504 International Relations Theory I (3). An analysis of the traditional approaches to international relations theory, beginning with the classic works in the field. Emphasizes the philosophical and normative underpinnings of realism, idealism, liberalism and radicalism. (F)
INR 6605 Contemporary International System (3). Study of synthetic review of theories of development and approaches to the study of development as a process of social, political, and economic change. Prerequisites: CPO 5036 and ESC 5025. (S)
INR 6606 Political Psychology of International Relations (3). Study of psychological explanations for political behavior in international relations. Topics include: cognitive, motiva-
Latin American and Caribbean Studies

Irma Alonso, Professor, Economics
Astrid Arraras, Assistant Professor, Political Science
Ken Boodhoo, Associate Professor, International Relations
Carol Boyce Davies, Professor, African-New World Studies
David Bray, Associate Professor, Environmental Studies
Jean Robert Cadely, Assistant Professor, Modern Languages
Erik Camayd-Freixas, Assistant Professor, Modern Languages
Isabel Castellanos, Associate Professor, Modern Languages
Janet Chernela, Professor, Sociology/Anthropology
Noble David Cook, Professor, History
Carol Damian, Associate Professor, Visual Arts
Leonel de la Cuesta, Professor, Modern Languages
Damian Fernandez, Professor, International Relations
Nadine Fernandez, Assistant Professor, Sociology/Anthropology
Eduardo A. Gamarra, Professor, Political Science
Asuncion Gomez, Assistant Professor, Modern Languages
Guillermo Grenier, Associate Professor, Sociology/Anthropology
Ivelaw Griffith, Associate Professor, Political Science
Christine Gudorf, Professor, Religious Studies
John B. Jensen, Associate Professor, Modern Languages
Sherry Johnson, Assistant Professor, History
Antonio Jorge, Professor, International Relations/Economics
Santiago Juan-Navarro, Assistant Professor, Modern Languages
A. Douglas Kincaid, Associate Professor, Sociology/Anthropology
Barry Levine, Professor, Sociology/Anthropology
Sarah Mahler, Associate Professor, Sociology/Anthropology
Anthony P. Maingot, Professor, Sociology/Anthropology
Kathleen Martin, Associate Professor, Sociology/Anthropology
Juan Martinez, Associate Professor, Visual Arts
Michael McClain, Assistant Professor, Environmental Studies
Raul Moncarz, Professor, Business Administration

Dario Moreno, Associate Professor, Political Science
Richard Olson, Professor, International Hurricane Center
Lisaandro Perez, Associate Professor, Sociology/Anthropology
Patricia Price, Assistant Professor, International Relations
Timothy Power, Assistant Professor, Political Science
Jean Rahier, Associate Professor, African-New World Studies
Terry Rey, Assistant Professor, Religious Studies
Ana Roca, Associate Professor, Modern Languages
Mark B. Rosenberg, Professor, Political Science
Jorge Salazar-Carrillo, Professor, Economics
Reinaldo Sanchez, Professor, Modern Languages
Andrea Seidel, Associate Professor, Theatre and Dance
Robin Sheriff, Assistant Professor, Sociology/Anthropology
Alex Steplick, Professor, Sociology/Anthropology
James Sweet, Assistant Professor, History
Mark D. Szuchman, Professor, History
Richard Tardanico, Associate Professor, Sociology/Anthropology
Juan Torres-Pou, Assistant Professor, Modern Languages
Victor Uribe, Assistant Professor, History
William Vickers, Professor, Sociology/Anthropology
Maida Watson, Professor, Modern Languages
Mira Wilkins, Professor, Economics
Maria Willumsen, Associate Professor, Economics
Theodore Young, Assistant Professor, Modern Languages
Florence Yudin, Professor, Modern Languages

1. A baccalaureate degree from an accredited institution for higher education, or equivalent.
2. A grade-point average of at least 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate study and for any post-baccalaureate study.
3. A combined verbal and quantitative score of at least 1000 on the GRE.
4. A statement of purpose consistent with the goals of the program.
5. Three letters of recommendation.
6. For foreign applicants whose native language is not English, a TOEFL score of at least 550.
7. Approval by the program admissions committee.

Degree Requirements

The program consists of 36 credit hours, 30 of which involve multidisciplinary course work, including a pro-seminar (three credits); specialization in a discipline (15 credits) to be selected from the program’s core departments (Economics, Environmental Studies, History, International Relations, Modern Languages, Political Science, and Sociology/Anthropology); and a breadth requirement (12 credits) comprising courses from at least two other departments, which may include offerings of programs outside the core departments. A master’s thesis (six credits) is also required. As a non-credit requirement, students must demonstrate reading proficiency in either Spanish or Portuguese or, when advisable, another foreign language. The program stresses a close faculty-student advising relationship and the participation of visiting scholars from Latin America, the Caribbean, and other regions. The specific requirements of the program are as follows.

Course Work

Thirty credits of course work, to be selected from the approved list of graduate courses included in the FIU catalog. Courses must be passed with grades of 3.0 or better and distributed as follows:
1. A pro-seminar, LAS 6003, (three credits): focuses on the logic of inquiry on Latin America and the Caribbean, providing an introduction to comparative and historical perspectives on the region; comparisons with other world regions; and an overview of disciplinary approaches and research

Admission Requirements

Applicants must meet the following minimum admissions requirements:
resources. To be offered each fall semester.

2. Disciplinary specialization: 15 credits (five courses) selected from the graduate offerings of the student's field of concentration (Economics, Environmental Studies, History, International Relations, Modern Languages, Political Science, or Sociology/Anthropology). Of this total, a minimum of three credits (one course) must be fulfilled by taking the appropriate department's graduate course(s) in research methodology to ensure that the student receives the training to carry out a successful thesis project.

3. Breadth requirement: 12 credits (four courses) selected from the graduate offerings of at least two disciplines other than the concentration. Subject to the advisor's approval, up to six credits (two courses) may be selected from the graduate offerings of FIU programs besides those of the core departments.

Economics
ECO 5709  The World Economy
ECS 5027  Economic Development of Emerging Nations
ECS 7015  Development Economics: Theory
ECS 7026  Development Economics: Planning and Policy
ECS 7405  Economics of Latin America
ECS 7435  Economics of the Caribbean
ECS 7445  Economics of Central America

Environmental Studies
EVR 5066  Ecology of the Amazon Flooded Rainforest
EVR 5067  Tropical Rainforest Conservation/Utilization
EVR 5360  Protected Area Management
EVR 5355  Environmental Resource Policy
EVR 5412  Women and the Population/Environment Equation
EVR 5993  Environment and Development in Latin America
EVR 5996  International Organizations and Environmental Politics
EVR 6322  Methods in Sustainable Resource Management
EVR 5313  Renewable Energy Sources
EVR 5353  International Energy Policy
EVR 5065  Ecology of the Costa Rican Rainforest

History
LAH 5915  Research in Latin American History
LAH 5935  Topics in Latin American History

International Relations
GEO 5415  Topics in Social Geography
INR 5087  Ethnicity and the Politics of Development
INR 5607  International Relations and Development
INR 5935  Topics in International Relations

Latin American Studies
LAS 6003  Survey of Latin America

Modern Languages
SPN 5525  Spanish American Culture
SPW 5237  The Traditional Spanish American Novel
SPW 5286  Contemporary Spanish American Novel
SPW 5535  Graduate Seminar: Prose and Poetry of Jorge Luis Borges
SPW 5575  Spanish American Modernism
SPW 5735  Hispanic Literature of the United States
SPN 6535  Hispanic Culture in the United States

Political Science
CPO 5036  Politics of Development
CPO 5091  Seminar in Comparative Politics
CPO 5935  Topics in Comparative Politics
POS 5158  Topics in Politics

Sociology/Anthropology
ANT 5548  Ecological Anthropology
ANT 6931  Seminar on Latin America
SYP 5447  Sociology of International Development
SYP 6306  Comparative Social Movements
SYD 6325  Seminar in the Comparative Sociology of Gender
SYD 6705  Comparative Analysis of Ethnicity and Race
SYP 6907  Seminar in Comparative Social Change

College of Arts and Sciences
SYD 6427  Seminar in Comparative Urban Issues

Methods
A minimum of three credits (one course) must be fulfilled by taking the appropriate department's graduate course(s) in research methodology.

Foreign Language
Each student is required to demonstrate reading proficiency in either Spanish or Portuguese, or in another language such as French, Haitian Creole, or Dutch when justified by research interests. Proficiency is demonstrated by scoring at least 'intermediate high' on the ACTFL/ETM exam for Spanish, Portuguese, or French. For other languages, corresponding tests of proficiency and levels of achievement will be required.

Thesis
The writing and defense of a thesis is required of all students. The thesis will be evaluated by a committee of three faculty members. The committee chair and at least one other member must be from core departments. The committee as a whole must be drawn from at least two departments. Thesis credits (six required) are in addition to the required 30 credits of course work.

For further information please contact Theodore R. Young, Director, of Graduate Studies, Latin American and Caribbean Center, Florida International University, University Park, Miami, Florida 33199. Phone: (305) 348-2894; Fax: (305) 348-3593; E-mail: youngtr@fiu.edu.
Linguistics

Lynn M. Berk, Professor, English and Director
Jean-Robert Cadely, Assistant Professor, Modern Languages
Isabel Castellanos, Professor, Modern Languages
Tommy Hopkins, Associate Professor, English
John B. Jensen, Professor, Modern Languages
Sarah L. Machonis, Associate Professor, Modern Languages
Ana Roca, Associate Professor, Modern Languages
Kemp Williams, Associate Professor, English
Feryll Yavas, Lecturer, English
Mehmet Yavas, Professor, English

Master of Arts in Linguistics

Admission Requirements
Applicants must meet the University’s graduate general admissions requirements; a GRE score of 1200 on the verbal and quantitative sections or an undergraduate GPA of 3.0 will be required. In addition, non-native speakers of English must submit a TOEFL score of 600.

Degree Requirements
The Master of Arts in Linguistics requires 36 graduate hours in Linguistics. Twenty-one of the 36 hours are required courses, the remainder in electives. Beside maintaining an overall 3.0 average in all courses, students must also obtain a minimum of a 'B' in each of the required courses ("B-" is not acceptable in these courses) and a minimum of a 'C' in each elective course ("C-" is not acceptable). Course work will be as follows:

Required Courses (All Students): (15)
LIN 5018 Introduction to Linguistics 3
LIN 5206 Phonetics 3
LIN 6323 Phonology 3
LIN 6510 Syntax I 3
LIN 6805 Semantics 3

A minimum of one course from each of the following groups:

Structure Course (3)
LIN 5501 English Syntax
LIN 5341 Morphology
LIN 5705 Morphology
LIN 5855 Structure of French
LIN 6572 Structure of a Non Indo-European Language

History Course (3)
LIN 5107 History of the English Language
LIN 5146 Historical and Comparative Linguistics
LIN 5845 History of the Language
LIN 5845 History of the Language

The remaining hours must be selected from other Linguistics (LIN) graduate offerings. Certain non-linguistics courses can be accepted with the approval of the Linguistics Committee.

Foreign Language Requirement
Students with no background in foreign languages will be required to take LIN 6572 "Structure of a Non-Indo-European Language" as a part of their 36-hour program.

Examination Requirement
Students will be required to take a written comprehensive exam in Linguistics. For most students, this will be a written exam. For any student who is writing a thesis and has a GPA of 3.7 or above, the thesis defense will constitute the comprehensive exam.

Thesis/Non-Thesis Options
Students may elect to follow a thesis or a non-thesis option. Those electing to write a thesis will take up to six credit hours in thesis research as part of their required 36 hours. When completed, the thesis will be defended orally before a committee made up of three faculty members, including the thesis director. Those electing to follow the non-thesis option will take all 36 hours in non-thesis courses.

Course Descriptions

Definition of Prefixes
LIN - Linguistics.
F-Spring semester offering; S-Spring semester offering

LIN 5017 Cognitive Linguistics (3).
Explores the nature of human reason and categorization as revealed by language. Examines the role of metaphor, imagination, and bodily experience in human thought processes. Prerequisite: LIN 3010, LIN 5018 or the equivalent.

LIN 5018 Introduction to Linguistics (3).
Introduction to Linguistic theory and analysis, with special emphasis on the major components of languages and modern approaches to their analysis. (F)
LIN 5019 Metaphor, Language, and Literature (3). Examines nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisite: LIN 3013 or LIN 5018.

LIN 5107 History of the English Language (3). Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (F)

LIN 5108 Language Universals (3). Universal properties of language from two major perspectives: those of Typologists and of Universal Grammarians. A variety of linguistic structures and theoretical explanations are examined. Prerequisite: LIN 3013, or LIN 3010, or LIN 5018, or the equivalent.

LIN 5146 Historical and Comparative Linguistics (3). The study of linguistic methodology for determining historical and genetic relationships among languages. Diachronic syntax and its methodology will be included. The relevance of historical and comparative linguistics to similar processes found in language acquisition and to socio-linguistics will be studied. Prerequisite: LIN 5206.

LIN 5206 Phonetics (3). The study of the articulatory mechanisms used in producing speech sounds and of their acoustic properties. Ear training in the phonetic transcription of speech sounds used in the world's languages. (F)

LIN 5207 Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent, plus one additional course in phonetics or phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5431 Morphology (3). The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to
analysis will be emphasized. Recent developments in linguistics that bear on language-universal and language-specific aspects of morphology. Prerequisite: LIN 6323.

LIN 5501 English Syntax (3). This course will focus on syntactic analysis of English. Although the course itself is non-theoretical, it uses a variety of underlying theoretical approaches to train students in syntactic analysis. (F,S)

LIN 5574 Languages of the World (3). Introduces the student to the richness of human linguistic diversity while demonstrating concurrently the underlying universality of human language. Prerequisite: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlas, national and regional studies. Dialectology within a modern sociolinguistic framework; research approaches. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5715 Language Acquisition (3). The study of the processes underlying normal first-language acquisition. The focus is on the development of the subsystems of language (i.e., the phonological, morphological, syntactic, and semantic subsystems) in the child's growing command of his or her native language.

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5732 Speech Errors and Linguistic Knowledge (3). This course focuses on the nature of linguistic errors produced by speakers in their native language. Students will read research on errors produced by adult native speakers of a language, on first-language errors of children, and on errors made by persons acquiring a second language.

LIN 5733 Methods of Teaching Accent Reduction (3). Theory and methods regarding the teaching of pronunciation to non-native speakers of a language. Hands-on practice in helping non-native speakers improve their pronunciation. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5734 Teaching Linguistics (1). Introduces graduate students to pedagogical issues and strategies in the teaching of linguistics. Topics include textbook selection, writing syllabi, student assessment, and professional ethics. Prerequisite: Graduate standing.

LIN 5748 Survey of Applied Linguistics (3). Application of linguistics to problems in many fields, such as literature, translation, criminal justice, speech pathology, computer science, communications, public policy, and language instruction. Prerequisite: LIN 3010 or LIN 3013 or LIN 5018 or the equivalent.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisite: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5934 Special Topics in Linguistics (3). Content to be determined by instructor. May be repeated for credit when content changes. Prerequisite: LIN 3010, LIN 3013, or LIN 5018.

LIN 6323 Phonology (3). The study of phonological processes in languages and linguistic methodology for phonological analysis. Emphasis will be placed on recent theoretical questions concerning such issues as the abstractness of underlying forms, the naturalness of processes, and the relevance of markedness to a phonological description. Prerequisite: LIN 5206, Phonetics. (S)

LIN 6510 Syntax I (3). This course will expose students to the theoretical models on which much contemporary work in English grammar is based. Students will read works on selected topics such as structural linguistics, transformational grammar, and case grammar. Specific content may change from semester to semester. May be repeated for credit with content changes. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (S)

LIN 6520 Syntax II (3). In-depth analysis of contemporary theories of syntax. May be repeated for credit with content changes. Prerequisite: LIN 6510. (F)

LIN 6571 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversational interactions and written texts. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 6572 Structure of a Non-Indo-European Language (3). An in-depth study of the structure of a non-Indo-European language. The particular language to be studied will be varied from semester to semester. Course may be repeated. Prerequisites: LIN 5018, LIN 5206, LIN 5222, and a course in syntax.

LIN 6602 Language Contact (3). A study of the language changes that occur when two or more languages come into contact with one another. The course will also examine the characteristics of the individuals and communities involved in such contact.

LIN 6706 Current Research Methods in Psycholinguistics (3). Review of current research in psycholinguistics, including adult production and comprehension, first and second language acquisition, and language
disorders, Students conduct original research in one of these areas. Prerequisite: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 6805 Semantics (3). The study of linguistic semantics. Language-universal and language-specific properties of the semantic structure of words and sentences will be considered. Students will be exposed to a variety of approaches to the study of meaning. Prerequisite: Introductory course in Linguistics or Permission of the instructor. (S)

LIN 6905 Independent Study (VAR). This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Introductory course in Linguistics or Permission of the instructor.

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

LIN 6937 Seminar in Linguistics (3). Topics vary each semester. Prerequisite: A previous course in the same sub-area of Linguistics.

LIN 6971 Thesis (1-6). Prerequisite: Completion of all other requirements for the M.A. degree in Linguistics.
Graduate Catalog

Mathematics

Enrique Villamor, Associate Professor and Chairperson
Kaushal Ajitabh, Assistant Professor
Gerardo Aladro, Associate Professor
Shamita Dutta Gupta, Assistant Professor
Julian Edward, Associate Professor
Domitila Fox, Instructor
Susan Gorman, Instructor
Steven M. Hudson, Associate Professor
George Kafkoulis, Associate Professor
Shinar Kouranaeva, Assistant Professor
Mark Leckband, Associate Professor
Thomas Lecess, Assistant Professor
Bao Qin Li, Associate Professor
Diana McCay, Instructor
Abdelhamid Meziani, Professor
Richard Nadel, Instructor
Taie Ramsamujh, Associate Professor
David Ritter, Associate Professor
Michael Rosenthal, Instructor
Dev K. Roy, Associate Professor
Richard L. Rubin, Associate Professor
Mitch Rudominer, Assistant Professor
Philippe Rukimbira, Associate Professor
Anthony C. Shershin, Associate Professor
Miina Shore, Instructor
Theodore Tachlin Medjo, Assistant Professor
Graham Taylor, Assistant Professor
John Zweibel, Associate Professor

Master of Science in Mathematical Sciences

Admission

The following are in addition to the University’s graduate admission requirements:

1. Bachelor’s degree in mathematics, applied mathematics or mathematical sciences from an accredited university or college.
2. A ‘B’ average or higher in upper division mathematics courses.
3. Graduate Record Examination taken within the past five years, with at least 650 on the quantitative portion and 500 on each of the other two parts.
4. Three letters of recommendation concerning the candidate’s achievement and potential, from persons familiar with the candidate’s previous academic performance.
5. Approval of the Graduate Committee.

Core Courses

The student must complete a minimum of 24 semester hours of graduate course work. This course work must include 5 courses from the following two lists, with at least 2 from each list.

List A:

- MAA 5406 Complex Analysis 3
- MAA 5616 Introduction to Real Analysis 3
- MAP 5316 Ordinary Differential Equations 3
- MAS 5311 Graduate Algebra 3
- MAP 5312 Galois Theory 3
- MHF 5107 Graduate Set Theory 3
- MIF 5306 Graduate Mathematical Logic 3

List B:

- MAD 5405 Numerical Methods 3
- MAP 5236 Mathematical Techniques of Operations Research 3
- MAP 5326 Partial Differential Equations 3
- MAP 5407 Methods of Applied Analysis 3
- MAS 5145 Applied Linear Algebra 3

Electives

The remaining 9 hours of course work will be used to fashion a coherent program of study best suited to the student’s needs and interest. This requires the prior approval of the Graduate Committee and may be done in one or a combination of the following ways: a) Further work from lists A and B. b) A maximum of 2 courses of independent study, taken with Mathematical Sciences faculty. c) Graduate level course work in Engineering, Physics or Statistics.

Master’s Project

The student will complete his or her graduation requirements by writing an expository paper under the direction of a faculty member. The student may earn six credit hours (MAT 5970 Master’s Research) in preparing the project. Successful completion of the Master’s project requires a grade of ‘B’ or higher, as well as approval of a committee consisting of three mathematics faculty (including the director).

Remarks: The course work must be completed with a 3.0 GPA average or higher and a grade of ‘C’ or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee. A total of 30 credit hours is required for graduation.

Course Descriptions

Definition of Prefixes


COT 5420 Theory of Computation I (3). Abstract models of computation; halting problem; decidability and undecidability; recursive function theory. Prerequisite: MAD 3512.

COT 6400 Analysis of Algorithms (3). Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530.

MAA 5406 Complex Analysis (3). Harmonic functions, normal families, Riemann mapping theorem, univalent functions, infinite products and entire functions, elliptic functions, analytic continuation. Prerequisites: MAA 4211 and MAA 4402.

MAA 5616 Introduction to Real Analysis (3). Lebesgue Measure and Integral with applications to Integral Transforms. Prerequisite: MAS 3105, MAA 4211, MAP 4401 or MAA 4412.

MAP 5405 Numerical Methods (3). Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and nonlinear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3105 and MAP 2302.

MAP 5236 Mathematical Techniques of Operations Research (3). This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisite: MAP 5117 and MAS 3105 and either CGS 3420 or COP 2210.

MAP 5316 Ordinary Differential Equations (3). Existence and Uniqueness theorem, matrix formulation, physical applications, regular singular points, autonomous systems, Laplace transform, special topics. Prerequisites: MAA 3200, MAA 4402 and MAS 3105.
MAP 5317 Advanced Differential Equations for Engineers (3). Topics may include Bessel Functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Credit may not be counted for both MAP 4401 and MAP 5317. Credit for MAP 5317 may not be applied toward the Master's degree in Mathematical Sciences. Prerequisites: MAC 2313 and MAP 2302.

MAP 5326 Partial Differential Equations (3). Basic concepts of first and second order PDE's, application to optics and wave fronts, Cauchy problem, Laplace equation, Green's function, Dirichlet problem, heat equation. Prerequisite: MAA 4211.

MAP 5407 Methods of Applied Analysis (3). Convergence, fixed point theorems, application to finding roots of equations, normed function spaces, linear operators, applications to numerical integration, differential and integral equations. Prerequisites: MAA 4211, MAP 2302, and MAS 3105.

MAS 5145 Applied Linear Algebra (3). Concepts of finite dimensional vector spaces. Theorems that have infinite dimensional analogues and those with important applications are emphasized. Prerequisites: MAS 3105 and MAA 3200.

MAS 5311 Graduate Algebra (3). A study of the basic material on groups, rings and vector spaces. Topics include the Jordan-Holder theorem, structure of modules over Euclidean domains and canonical forms of matrices. Prerequisites: MAS 4301 or equivalent.

MAS 5312 Galois Theory (3). Extension fields, ruler and compass constructions, fundamental theorem of Galois Theory, cyclotomic and cyclic extensions, solutions of equations by radicals, selected topics. Prerequisites: MAS 5311 or Permission of the instructor.

MAT 5907 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigations.

MAT 5921 Training in Mathematical Exposition (1). Students prepare and present supervised lectures on undergraduate mathematical topics to fellow students. Prerequisite: Graduate standing.

MAT 5970 Master's Research (1-6). Research toward preparation of master's project. Prerequisite: Permission of graduate committee.

MHF 5106 Graduate Set Theory (3). Zermelo-Frankel axioms, ordinals and cardinals, Godel's constructible universe, large cardinals, forcing and the independence of the Continuum Hypothesis and the Axiom of Choice. Prerequisites: MHF 4102 or MAA 4211 or Permission of the instructor.

MHF 5306 Graduate Mathematical Logic (3). First order languages, construction of models from constants, advanced construction of models, non-standard models, recursion theory, RE sets, Turing degrees, oracle construction. Prerequisites: MHF 4302 or Permission of the instructor.

MHF 5325 Theory of Recursive Functions (3). Turing machines, decision problems, coding, s-m-n theorem, Rice's and Myhill's theorems, oracles, degrees, finite and infinite injury constructions. Prerequisite: MHF 4302 or COT 5420.

MTG 5326 Introduction to Algebraic Topology (3). Classification of surfaces, fundamental group, homotopy type, Van Kampen theorem, simplicial complexes, introduction to homology theory. Prerequisites: MAS 4301 and MTG 4302.

STA 5446-STA 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 2313.

STA 6807 Queueing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of the instructor, MAC 2312 and either STA 3033 or STA 4321.
Modern Languages
Isabel Castellanos, Professor and Chairperson
Aurelio Baldor, Instructor
Pascale Beel, Associate Professor
Jean-Robert Cadely, Assistant Professor
Eric Camayd-Freixas, Assistant Professor
Ricardo Castells, Associate Professor
James O. Crosby, Professor Emeritus
Leonor A. de la Cuesta, Professor
Asuncion Gonzalez, Assistant Professor
Yvonne Guers-Villate, Professor Emeritus
Danielle Johnson-Cousin, Associate Professor
Santiago Juan-Navarro, Assistant Professor
John B. Jensen, Professor
Peter A. Machonis, Associate Professor
Ramón Mendoza, Professor (North Campus)
Marial Montero-Demos, Associate Professor (North Campus)
Ana Roca, Associate Professor
Reinaldo Sanchez, Professor
Juan Torres-Pou, Assistant Professor
Maida Watson, Professor
Marcelle Welch, Professor
Theodore Young, Assistant Professor
Florence Yudin, Professor

Master of Arts in Spanish
Admission Requirements: To be admitted into the Master’s degree program, a student must:
1. Hold a Bachelor’s degree in Spanish from an accredited college or university. Special cases, such as holders of a degree in a related field, will be evaluated individually by the Department.
2. Take the Graduate Record Examination (GRE) quantitative and verbal sections. Foreign students must also take the TOEFL and attain a minimum score of 550.
3. Have attained a minimum 3.0 grade-point average (B average), during the last two years of her/his undergraduate program as determined by the FIU Admissions Office, or attain a score of at least 1,000 on the GRE.
4. Demonstrate the ability to speak Spanish with near-native fluency and to write in Spanish. Demonstrate the ability to read English with excellent proficiency. An examination may be necessary. Contact the Director of Graduate Study (305-348-2851; Modern Languages, FIU, Miami, FL, 33199). Students with deficiencies will be required to complete certain course work before beginning graduate study.
5. Submit two letters of recommendation, preferably from persons in the academic community who are in a position to comment on the applicant’s suitability for graduate work, a resume, and a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject.
6. Receive approval of the departmental graduate committee. Admission is competitive and meeting all minimum requirements does not guarantee automatic entrance into the program.

Degree Requirements
The Master’s degree program consists of 33 semester hours of graduate level work. A maximum of six credits of graduate course work may be transferred into the program from other institutions, subject to the approval of the departmental graduate committee. Six core courses and three elective courses are required at the 5000- and 6000-level. Some courses have prerequisites which do not count toward the degree. All core courses in literature must be taken with or after SPW 5806. Courses taken before SPW 5806 are considered to be electives.

Core Courses (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SPW 5806</td>
<td>Methods of Literary Research (must be taken in the first year of study)</td>
</tr>
<tr>
<td>SPN 5705</td>
<td>The Structure of Spanish</td>
</tr>
<tr>
<td>One course in peninsular Spanish Literature of the 19th or 20th centuries.</td>
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</tr>
<tr>
<td>One course in either Medieval Spanish Literature or Literature of the Golden Age.</td>
<td></td>
</tr>
<tr>
<td>Two courses in Spanish American Literature. (Colonial or 20th century)</td>
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Electives
A student must take at least nine graduate credits of electives, as follows: three in Spanish or Latin American literature, and six from one or more of the following areas: Spanish or Spanish American literature, Linguistics, Translation/Interpretation, or Culture of Spain, Latin America or Hispanics in the United States.

Graduation Requirements
To receive the M.A. degree in Spanish, a student must complete all the course work with a 3.0 GPA or higher, and receive a minimum grade of ‘B’ in every course. Upon completion of 27 graduate credits (core and elective courses), students will have the option of writing a thesis (equivalent to six credits), or taking two elective courses and writing a research paper. The thesis will be presented to an ad hoc committee chosen by the student and his or her advisor. The research paper must be submitted to a committee of two professors of the Department. Upon completion of 33 credits, the student will be required to take Comprehensive Examinations, based on course work and on the Department’s Graduate Reading List (the exams must be passed with a minimum grade of ‘B’; they may be taken no more than twice).

Doctor of Philosophy in Spanish
The doctoral program in Spanish offers students the opportunity to specialize in one of two major fields: Peninsular Spanish Literature or Spanish American Literature. Minors are available in Peninsular Spanish Literature, Spanish American Literature, and Hispanic Linguistics.

Admission Requirements
To be admitted to the doctoral program, a student must:
1. Hold a Bachelor’s degree in Spanish from an accredited college or university. Special cases, such as holders of a degree in a related field, will be evaluated individually by the Department.
2. Take the Graduate Record Examination.
3. Demonstrate the ability to speak, understand, read, and write in Spanish with near-native fluency. Demonstrate the ability to speak and read in English with excellent proficiency. For students whose native language is not English, the TOEFL is required, and they must obtain a score of 550 or higher.
4. Have attained a minimum grade point average of 3.0 (B average) during the last two years of her/his undergraduate studies or attain a combined (verbal and quantitative) score of at least 1000 in the GRE. Applicants with Master’s degrees are required to have a graduate GPA of 3.5. A GPA of 3.5 in graduate Spanish courses is expected in such cases.
5. Apply for graduate admission to the Admissions Office and submit to the Department of Modern Languages the following documentation: a) two letters of recommendation from former professors in the format required by the Graduate Studies Committee, b) a
resume, c) a statement of purpose in English or Spanish, addressing the candidate's goals and objectives in pursuing a doctorate in Spanish, and d) a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject.

6. Receive approval of the departmental Graduate Studies Committee. Admission is competitive, and meeting all minimum requirements does not guarantee automatic entrance to the program.

Degree Requirements
The doctoral program consists of 90 semester hours of graduate level work beyond the Bachelor's degree, distributed as follows: 66 graduate credits of courses and 24 credits of dissertation. Students holding Master of Arts degrees in Spanish or Hispanic Studies will be considered for admission and some or all of their graduate credits may be counted toward the doctoral degree after being evaluated and approved by the Graduate Studies Committee. Students will be able to transfer a maximum of 36 graduate credits from other universities.

Core Courses (12 credits)
All core courses must be taken as graduate courses offered by the university and may not be taken as independent studies:
1. SPW 5806 Methods of Literary Research
2. SPN 5705 The Structure of Spanish
3. SPW 6718 Historiography of Literature
4. SPW 6825 Literary Theory and Criticism

Distribution Requirement (15 credits)
All students must take:
One course in Medieval or Golden Age Peninsular Spanish Literature
One course in Peninsular Spanish Literature of the 18th, 19th or 20th century
One course in Colonial/19th century Spanish American Literature
One course in 20th century Spanish American Literature

One additional course in Spanish American Literature

Major Field (18 credits)
All students must take at least 18 credits of electives in their elected field of specialization.

Minor Field (12 credits)
Twelve credits of electives in the student's chosen field (Peninsular Spanish Literature, Spanish American Literature, or Hispanic Linguistics).

Electives (9 credits)
Students may choose from graduate courses in literature, linguistics, culture, and translation/interpretation.

Dissertation (24 credits)

Graduation Requirements
To receive a Ph.D. in Spanish, a student must complete all courses with a GPA of 3.0 or higher, and receive a minimum grade of 'B' in every course. Before graduation the student must demonstrate a reading knowledge of a language other than English or Spanish, chosen by the student in consultation with her/his adviser. Upon completion of 33 graduate credits beyond the Bachelor's degree, students must take qualifying written and oral examinations which will determine whether they are permitted to continue their studies toward the doctorate or whether they should be terminated, with or without a master's degree. In the case of students registered for the master's degree, the M.A. comprehensives will also serve as a qualifying examination for the Ph.D. Following completion of most of the course work, students are required to take written and oral doctoral comprehensive examinations. They must be passed with a minimum grade of 'B' and may not be taken more than twice. A student is formally considered a doctoral candidate upon successful completion of the comprehensive examinations and the acceptance of a dissertation proposal. Students must write and successfully defend a doctoral dissertation before a committee of three faculty members, two of whom must be from the graduate program faculty.

Course Descriptions

Definition of Prefixes
FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature; FRE-French Language; FRT-French Translation; FRW-French Literature (Writings); GER-German Language; LIN-Linguistics; POR-Portuguese Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings).

(See English listing for additional Linguistics courses.) Application of basic language skills.

FIL 5526 Spanish Film (3). The history of film in Spain and discussions of films by the most important 20th Century directors.

FIL 5527 Latin American Film (3). The study of 20th Century films and documentaries produced by leading Latin American directors. Films are examined in relation to Latin American Society and its literary creations.

FOL 5735 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 5906 Independent Study (1-3). Project, field experience, readings, or research.

FOL 5945 Foreign Exchange Internship (0). Foreign exchange students perform graduate research in the Department of Modern Languages and English as a corequisite to their assistantship in the Modern Languages Department.

FOT 5125 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arts (3). The language barrier and translation and interpretation. Types, modes, and quality of T/I: philological, linguistic, and socio-linguistic theories. History of T/I from Rome to date. The impact of T/I on Inter-American developments. Prerequisite: Graduate standing or permission of the instructor.

FOW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 5545 Bicultural Writings (3). Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 5587 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

FOW 5694 Special Topics in Language/Literature (3). Content and objectives to be determined by students and teacher.
FRE 5908 Independent Study (1-3). Project, field experience, readings, or research.

FRT 5805 Translation/Interpretation Arts (3). Techniques of professional translation and interpretation. Prerequisite: FRT 4801.

FRW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FRW 5934 Special Topics in Language Literature (3). Content and objectives to be determined by student and instructor.

FRW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required)

GER 5060 German for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

GER 5061 German for Reading Knowledge (3). Emphasis on translation of materials from the student’s field of specialization. Prerequisite: GER 5060 or the equivalent.

LIN 5207C Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent, plus one additional course in phonetics or phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic framework; research approaches. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisite: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

LIN 6571 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversational interactions and written texts. Prerequisite: LIN 3010, LIN 3013, or the equivalent.

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.) (See English listing for additional Linguistics courses.)

SPN 5060 Language for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who
has no prior knowledge of the language.

SPN 5061 Language for Reading Knowledge (3). Emphasis on translation of materials from the student’s field of specialization. Prerequisite: SPN 5060 or the equivalent.

SPN 5525 Spanish American Culture (3). A graduate survey of the major artistic phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisite: Graduate standing and permission of the instructor.

SPN 5536 Afro-Cuban Culture (3). Explores the role played by blacks in Cuban culture. Issues studied include: Afro-Cuban religions, languages, and music, as well as the Afro-Cuban presence in literature and the arts.

SPN 5537 Special Topics in Afro-Hispanic Culture (3). Close examination of various topics related to the culture of African diaspora groups in the Hispanic world.

SPN 5705 The Structure of Spanish (3). An introduction to Spanish linguistics. Topics include Spanish phonetics, phonology, morphology, and syntax. Students who have previously taken Syntactic Structures of Spanish and/or Sound Structure of Spanish will not receive credit for this course. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5725 Syntactic Structures of Spanish and English (3). An in-depth study of syntactic structures in Spanish and English, with an emphasis on how linguistic theory can account for the similarities and differences between the two languages. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5805 Morphological Structures of Spanish and English (3). A survey of the morphologies of Spanish and English. Topics include the difference between isolating and synthetic languages, rich vs. impoverished agreement, and syntactic ramifications of morphology. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5807 Syntactic Structures of Spanish (3). The study of syntactic structures in Spanish, topics include different syntactic approaches to current issues in Spanish syntax. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5824 Dialectology of the Spanish Caribbean (3). Study of varieties of Spanish used in the Caribbean area, including Miami-Cuban Spanish. The course will take historical and contemporary perspectives and will involve research among informants in South Florida. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5845 History of the Language (3). Historical development of the Spanish language, primarily from the point of view of internal linguistic change. Spanish as an example of general processes of language development. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5908 Independent Study (1-3). Project, field experience, readings, or research.

SPN 6005 Spanish Culture (3). Selected development in language, literature, art, music, film, and the social institutions of Spain. Prerequisites: Graduate standing and permission of the instructor.

SPN 6535 Hispanic Culture in the U.S. (3). Readings in literature, culture, and language to illustrate the experience of the major Hispanic groups in the United States. Prerequisites: Graduate standing and permission of the instructor.

SPN 6795 Phonological Structure of Spanish (3). Approaches to current issues in Spanish phonology. Linguistic methodology for the analysis of phonological processes in Spanish. Prerequisite: Graduate standing.

SPN 6825 Hispanic Dialectology (3). A study of the principal varieties of the Spanish language in the Spanish-speaking world, with special emphasis on Latin American Spanish. Prerequisite: Graduate standing.

SPN 6930 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

SPN 6970 Thesis Research (1-10). Research toward completion of Master’s Thesis. Repeatable. Prerequisite: Permission of Department.

SPN 7972 Dissertation Research (1-10). Research toward the completion of a doctoral dissertation. Repeatable. Prerequisite: Admission to Doctoral Candidacy.

SPT 5118 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

SPT 5715 Hispanic Women Writers in Translation (3). Readings and analysis of Spanish and Spanish American women writers in translation. Emphasis on cultural and linguistic considerations involved in the translation of literary texts. Prerequisite: Graduate standing or permission of the instructor.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multilingual problem, period, or aesthetic.

SPW 5237 The Traditional Spanish American Novel (3). Study and analysis of the traditional Spanish novel as a form of art, from 19th century Lizardi’s “El periquillo sarmiento”, to 1950. The novels and authors studied are representative of ‘costumbrismo’, ‘romanticismo’, ‘naturalismo’, ‘modernismo’, and ‘criollismo’.

SPW 5277 Twentieth Century Spanish Narrative (3). Analysis of the Spanish novel from Ferlosio’s “El Jarama” to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martin Santos, Umbral, Delibes, Benet, Goytisolo, and others will be included.

SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations, defining and analyzing the qualities which give originality and newness both in themes and language.

SPW 5346 Poetry of Jorge Guillen (3). Selected readings from the five volumes of “Aire nuestro”. Emphasis on the techniques of close reading and explication. Related selections from Guillen’s literary criticism.


SPW 5359 Graduate Seminar: Poetry of Pablo-Neruda (3). Chronological examination of the major works of Chile’s Nobel Laureate. Related readings from Neruda’s
Memories. Emphasis on the poet's linguistic and aesthetic innovations.

SPW 5387 Women and Poetry (3). Women as poets and the poetized. Close reading of Peninsular and Latin American texts, 16th - 20th Century. Students examine the contributions of women and how they have been represented in poetry. Prerequisite: 4000 or 5000 level course in Hispanic poetry.

SPW 5405 Medieval Spanish Literature (3). Readings in Medieval literature of Spain including the epic, the learned poetry of the XIIIth and XIVth Centuries, and the literature of Juan II's court. Prerequisites: Graduate standing and permission of the instructor.

SPW 5407 The Renaissance in Spain (3). Readings in the literature and cultural expressions of the Spanish Renaissance. Prerequisites: Graduate standing and permission of the instructor.

SPW 5425 Quevedo: Poetry (3). Close reading of selected poems by Spain's greatest baroque poet and creator of modern Spanish satire, including poems on love, death, and metaphysical concerns, and a wide range of humorous poems.

SPW 5426 Quevedo: Prose Satire (3). Close reading of selected satires in prose by Spain's greatest baroque satirist and creator of modern Spanish satire. Includes Quevedo's picaresque novel "El Buscon", and his "Suenos", or "Visions of Hell".

SPW 5428 Theatre in Calderon and Lope (3). The creation of verbal theatrical technique in the Baroque masters Calderon de la Barca and Lope de Vega.

SPW 5436 Poetry Writing in Spanish (3). Readings from Spanish and Latin American texts; description and recreation of traditional and experimental metrics. Students will exchange critiques of original poems. Prerequisites: sample of unpublished poems; word-processing literacy; permission of the instructor.

SPW 5475 19th Century Latin American Literature (3). A study of the main literary works of Spanish speaking 19th Century Latin America: Romanticism, Realism, Naturalism and Modernism. Prerequisites: Upper level and graduate standing.

SPW 5486 Modern Spanish Women Writers (3). Analysis of narrative works by Spain's most representative women writers from the 19th century to the present. Emphasis on the novel. Includes works by Pardo Bazan, Matute, Lafacot, Martin Gaite. Prerequisites: Graduate standing or permission of the instructor.

SPW 5515 Advanced Studies in Hispanic Folklore (3). Studies the oral literary and linguistic tradition of the Hispanic world. Prerequisites: Graduate standing and permission of the instructor.

SPW 5556 Spanish Realism and Naturalism (3). Readings in Spanish XIXth Century Novel of Realism and Naturalism including Alarcon, Perez Galdos, Pardo Bazan, Clarin and Blasco Ibanez. Prerequisites: Graduate standing and permission of the instructor.

SPW 5575 Spanish American Modernism (3). An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, focusing on Marti, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5585 Learning Technology in Spanish Pedagogy and Research (3). Exploration of the role of technology in today's language and literature learning environment. Overview of the WWW, Network-based communication, and electronic databases related to Hispanic language and literature. Prerequisite: Graduate standing or advanced undergraduate with permission of the instructor.

SPW 5606 Cervantes (3). A comprehensive introduction to the masterpiece of Cervantes as the creator of the modern novel, and to critical theories about his art.

SPW 5729 Major Writers of the Generation of '98 (3). Study of the social and political circumstances of Spain at the turn of the XIX Century, and analysis of the work of Galiote, Azorin, Baroja, Machado, Maestu, Unamuno and Valle-Inclan. Prerequisite: Graduate standing or permission of the instructor.

SPW 5735 Hispanic Literature of the United States (3). Readings in the literature of Hispanics in the United States. Prerequisites: Graduate standing and permission of the instructor.

SPW 5756 Mexico in Poetry (3). Close reading of modern poets; discussion of essays on Theory and Practice. Students examine national representation in myth, symbol and metaphor. Prerequisites: 4000 or 5000 level course in Culture of Literature.

SPW 5781 The Representation of women in Spanish Literature and Film (3). Study of cinematographic adaptations of Spanish novels, plays and short stories. Analyses the representation of the female subject in both literary and filmic works. Prerequisite: Graduate standing or permission of the instructor.

SPW 5795 Magical Realism and Typologies of Non-Realist Fiction (3). Theories of magical realism, fantastic and non-realist fiction, focusing on narrative technique. Authors may include Onetti, Borges, Cortazar, Asturias, Carpentier, Rulfo, Marquez, Allende, others. Prerequisite: Graduate standing or permission of the instructor.

SPW 5786 Spanish American Women Writers (3). Through a selection of poems, plays and novels, this course studies Spanish American women production from Independence to the present times. Prerequisite: Graduate students only.

SPW 5806 Methods of Literary Research (3). Introduction to bibliography, methods of research, the composition of essays, rhetoric, and the presentation of documentation. Theory of literary criticism, and its practical application to texts in Spanish.

SPW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by student and instructor.

SPW 6238 Spanish American Historical Novel (3). The evolution of the historical novel in Spanish America from the Romantic period to the present. Stylistic, literary, and theoretical analyses of selected traditional and recent historical novels. Prerequisite: Graduate standing.

SPW 6216 Golden Age Prose (3). Analysis of representative prose works from 16th and 17th century Spain. Emphasis will be on the picaresque novel, the pastoral novel, autobiography, and the short story. Prerequisite: Graduate standing.

SPW 6335 Golden Age Poetry (3). An examination of major poets (1450-1650); emphasis on historical/cultural contexts. Prerequisite: Graduate standing.
SPW 6345 Twentieth Century Spanish Poetry (3). Close reading of two of the greatest poets of the 20th century (Jorge Guillén; F. García Lorca) and of major voices from the Generation of 1927 and from post-Franco Spain. Emphasis on cultural contexts. Prerequisite: Graduate standing.

SPW 6366 Studies in the Spanish American Essay (3). Stylistics of the essay, neoclassic to postmodern, as reflecting the intellectual spirit of the times. Analysis of arguments and methods of cultural epistemology in Bolívar, Martí, Paz and others. Prerequisite: Graduate standing.

SPW 6367 Prose and Poetry of José Martí (3). Study of José Martí's prose and poetry within the aesthetic and ideological contexts which characterize the discourse of Spanish American Modernism. Prerequisite: Graduate standing.

SPW 6368 19th Century Spanish-Caribbean Narrative (3). Studies the most popular literary trends of 19th century literature through the works of various Spanish-Caribbean writers. Prerequisite: Graduate standing.

SPW 6389 Cuban Novel and Short Story (3). Critical reading of representative texts of the Cuban novel and short story from XIX century to contemporary narrative expressions, within historical, social and artistic context. Prerequisite: Graduate standing.

SPW 6395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry,) or the study of interaction between literary types (e.g. novel and drama).

SPW 6495 The Latin American Experience Literature and Film (3). Literary and cinematic representations of significant periods in the formation of Latin American politics, culture, and identity. Prerequisite: Graduate standing.

SPW 6716 Seminar in Galdós (3). An in-depth study of the novels by Benito Pérez Galdós. Stylistic and theoretical analysis of a selection of Galdós' works, especially his novelas españolas contemporáneas (contemporary Spanish novels). Prerequisite: Graduate standing.

SPW 6718 The Historiography of Literature (3). Methodology and theory in the writing of literary history: periodization, continuity and change, literature in intellectual history. Prerequisite: Graduate standing.

SPW 6775 Literature of the Spanish Caribbean (3). Close readings of representative texts of the literature of the Dominican Republic, Cuba and Puerto Rico. Emphasis on the characteristics of the literary discourse within the context of a regional literature. Prerequisite: Graduate standing.

SPW 6825 Literary Theory and Criticism (3). Study of the theoretical foundation of literature and contemporary systems of critical approach to literary discourse. Prerequisite: Graduate standing.

SPW 6936 Graduate Seminar (3). Topic and approach to be determined by students and instructor. Prerequisite: Approval of the Department.

SPW 7979 Pre-Dissertation Research (1-9). Enables students to concentrate on completion of their dissertation prospectus during the term in which they take Ph.D. comprehensive exams. Prerequisite: Completion of all other Ph.D. coursework.
School of Music

Fredrick Kaufman, Professor and Director (composition)
John Augenblick, Associate Professor and Director of Choral Studies (choral)
Kristine Burns, Assistant Professor (composition/electronic music)
Gary Campbell, Assistant Professor (saxophone/jazz studies)
John Cuciurean, Assistant Professor (theory)
Robert Davidovici, Professor/Artist-in-Residence (violin)
Robert B. Dundas, Assistant Professor Director of Voice/Opera Studies (voice/ opera)
J. Richard Dunscomb, Professor (jazz studies)
Karen Fuller, Lecturer and Director of Performing Arts Production
Orlando J. Garcia, Professor and Director, Graduate Programs (composition)
Kamal Gekie, Professor/Artist-in-Residence (piano)
Rohy George, Assistant Professor and Director of Wind Studies
Clair McElfresh, Professor Emeritus (choral)
Michael Orta, Assistant Professor (jazz piano)
Carlos Piantini, Professor and Director of Orchestral Studies (orchestra/conducting)
Joseph Rohm, Associate Professor (theory)
Miguel Salvador, Associate Professor (piano)
Arturo Sandoval, Professor/Artist-in-Residence (trumpet)
Myer Savits, Assistant Professor (music education)
Violet Vagraniau-Nishanian, Professor (theory)
Michael Wagner, Professor (music education)
Miami String Quartet
Ivan Chan, (violin/chamber music)
Chauncey Patterson, (viola/chamber music)
Cathy Meng Robinson, (violin/chamber music)
Keith Robinson, (cello/chamber music)
Adjunct Instructors:
Keith Alco, percussion
Teresa Ancaya, vocal coach
Giorgia Bernstein, orchestral literature
Jay Bertolito, tuba
Lindsey Blair, jazz guitar
Brian Conaster, piano/accompanying
Elizabeth M. Cowan, voice

John Dee, oboe
Jodie DeSalvo, accompanist
Loretta Drannoff, piano
Marcia Dunscomb, jazz history
Deborah Fleisher, harp
Felix Gomez, jazz piano
Luis Gomez-Imbert, string bass/new music ensemble
Frank Gonzalez, sound reinforcement
Sergio Gonzalez, piano/accompanying
Robert Grabowski, jazz history/sound engineer
Paul Green, clarinet/chamber music
James Hacker, trumpet/chamber music
Geoffrey Hale, bassoon
Nelson Hall, men's choir
Jonathan Joseph, jazz drums
Jeffrey Kaye, trumpet
Suzanne Kirton, flute
Katherine Kozak, opera vocal coach
Adelina Krivosheina, coaching/accompanying
Jose Lopez, piano/accompanying
Scott Lussier, jazz arranging/jazz lab
Dean Manning, organ technician
Dennis Marks, jazz bass
Brian Mills, theory
Louis Mowad, classical guitar
Hector Nesiosup, Latin percussion
Mark Nerenhausen, music operations
Nicky Orta, jazz bass
Edward Pierson, voice
Noblez Pilar, voice
Errol Rackipov, jazz vibes
Rebecca Rickert, voice
Samuel Sanders, Visiting Professor of Piano
Art Sares, trombone
Joana Schulte, organ
Henry Skohnick, bassoon/chamber music
Lee Stone, string techniques
Marie Taviani, English diction
Alfredo Triff, music of the world
Carlos Valerio, saxophone
Carlos Vega, saxophone

Master of Music

The FIU School of Music offers an M.M. degree with specialization in the following areas: music theory/composition, jazz studies, applied (winds/percussion, strings, voice, piano, piano accompanying), and conducting (choral, orchestral, wind) and performing arts production. For more information please contact the FIU School of Music.

Required Areas

'Music Theory (Analytical Techniques course required in all areas except jazz and performing arts production)' 3
'Music History/Literature' 3
'Ensembles/applied/conducting' 2
The above eight credits are included in the 36 credits required for each area of concentration.

"A placement exam is required before students are allowed into these courses. Remedial work may be required before these courses may be taken. A required History course is selected in consultation with area advisor. All students, except jazz majors, must take Analytical Techniques as the required theory course.

"Requirements for jazz majors are in the jazz area.

"A jazz placements exam is required. Analytical Techniques is not required for jazz majors.

Areas of Concentration

I. Theory/Composition (36 credit hours)
Composition (3 semesters - 2 credits each) 6
Composers Forum/Workshop (4 semesters 0 credits each) 0
Electronic Music (2 semesters pending placement) 6
Analytical Techniques 3
Theory Elective: Comprehensive Theory, Seminar (20th c. st. quartets, the NY school), Set Theory, Schenkerian Analysis 6
Theory Elective II: Strict Composition or Modal Counterpoint or Advanced Orch 3
Graduate Music Electives 3
Music History/Literature Elective 3
Thesis/Recital (includes private lessons and 45 minute recital of student's compositions during last semester) 6

II. Performance - Piano, Applied Piano (36 credit hours)
Applied Piano (3 semesters - 2 credits each) 6
Accompanying (2 semesters - 1 credit each) 2
Chamber Music (2 semesters - 1 credit each) 2
Thesis/Recital (includes private lessons and recital during last semester) 6
Analytical Techniques 3
Keyboard Literature 3
Large Ensemble (2 semesters - 1 credit each) 2
Graduate Music Electives 12

Piano Accompanying (36 credit hours)
Applied Piano (3 semesters - 2 credits each) 6
Instrumental Accompanying 2
Vocal Accompanying 2
Chamber Music (2 semesters - 1 credit each) 2

Graduate Catalog 123
College of Arts and Sciences
Music Education

Degree hours: (36)

Professional Education (9)

EDF 6608 Social, Philosophical and Historical Foundations of Education 3
EDP 6211 Psychological Foundations of Education 3
EDF 5481 Analysis and Application of Educational Research 3

Music Education (12)

MUE 6349 Methodology of Music Education 3
MUE 6938 Seminar in Music Education 3
MUE 6815 Psychological Foundations of Music Behavior 3
MUE 6785 Research in Music Education 3

Music Courses (15)

Music Literature (Chosen with advisor approval) 3
Teaching Field: Music 11

IV. Performing Arts Production (36 credit hours)

First Semester

MUS 5xxx Performing Arts Production I 2
MUS 5xxx Live Music Operations I 12
TPA 5025 Performance Lighting 2
MUS 5xxx Expanding Artistic Expression 2
MUS 5xxx Music Production Lab I 1

Second Semester

MUS 5726 Live Music Operations II 3
MUS 5xxx Sound Reinforcement 2
CGS 5xxx Computer Literacy for Performing Arts Production 3
MUS 5796 Music Production Lab II 1

Third Semester

MUS 5705 Advanced Business of Music* 3
CGS 5xxx Performing Arts Technology 2
MUS 5906 Thesis 3
MUS 5797 Music Production Lab III 1

Fourth Semester

MUS 5946 Performing Arts Internship with Walt Disney Entertainment 9
*prerequisite MUM 4301 or equivalent
Course Descriptions

Definition of Prefixes

HUM-Humanities; MUC-Music:
Composition; MUE-Music: Education;
MUG-Music: Conducting; MUH-
Music: History/Musicology; MUL-
Music: Literature; MUM-Music:
Commercial; MUN-Music: Ensembles;
MUS-Music; MUT-Music: Theory;
MUBS-Music/Brass; MVK-
Applied Music/Keyboard; MVJ-
Applied Music/Jazz; MVV-Applied
Music/Voice; MVS-Applied
Music/String; MVV-Applied
Music/Woodwinds.

MUC 5406 Electronic Music IV (2). An advanced course in computer music providing students hands-on experience with recently developed hardware and software for the creations of music. Prerequisite: MUC 4400.

MUC 5407 Electronic Music V (2). Students develop new hardware and/or software for uses related to musical composition. Prerequisite: MUC 5406.

MUC 5935 Composition Forum (0). Student composers present their work for critique by faculty and topics relevant to composition are presented by faculty and guests. Prerequisite: Admission into the graduate composition program.

MUC 6251 Graduate Music Composition (1-3). The writing of evolved musical compositions with regard to each student's strengths and aesthetic development. Graduate standing in Music Education and or permission of the instructor.

MUC 6305 Electronic Music Lab I (2). Exploration of the electronic medium including the history of electronic music, digital studio techniques, analog studio techniques, digital synthesis and analog synthesis. Prerequisites: MUC 1342 or permission of the instructor.

MUC 6306 Electronic Music Lab II (2). Continuation of Electronic Music Lab I with an emphasis on advanced MIDI applications including sampling, digital sequencing, digital signal processing and interactive MIDI software. Includes one large composition project. Prerequisite: MUC 6401.

MUC 6405 Electronic Music Lab III (2). Special projects in advanced electronic music programming environments including Csound, MAX, Interactor, HMSL and CHANT.

Includes one large composition project. Can be repeated 4 times. Prerequisite: MUC 6402.

MUE 5921 Choral Conducting Workshop (3). The study of various topics related to choral literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5922 String Workshop (3). The study of various topics related to string literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5923 Instrumental Conducting Workshop (3). The study of various topics related to instrumental ensemble literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5924 Jazz Workshop (3). The study of various topics related to jazz literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5928 Workshop in Music (3). Applications of materials and techniques in music in a laboratory or field setting.

MUG 5105 Advanced Conducting Techniques (1). An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required.

MUG 5205 Graduate Applied Choral Conducting (2). Advanced study of choral conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5307 Graduate Applied Instrumental Conducting (2). Advanced study of wind conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5935 Conducting Seminar (1). An examination of the principle issues of conducting, emphasizing score reading and study, rehearsal, interpretation, and contemporary techniques. Prerequisite: Graduate standing and permission of the instructor.


MUK 5057 Music of the World (3). Survey of folk, popular and classical musical traditions from around the world. Examination of musical style and social context with film and performance demonstrations.

MUH 5065 Latino Music in the United States (3). Survey of Latin American musical traditions brought through immigration. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5066 Music of Mexico and Central America (3). A survey of folk, popular and classical musical traditions in the region. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5067 Music of the Caribbean (3). Survey of folk, popular and classical musical traditions and their ongoing connection with Caribbean populations in the U.S. Class includes film and performance demonstrations.

MUH 5375 Twentieth Century Music: 'New Dimensions' (3). A technical study of music since 1900. Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis.

MUH 5546 Music of the Americas (3). An exploration of the folk, popular, and art music of Latin America.

MUI 5815 Jazz History: The Innovators (3). The work of four artists whose innovations have profoundly defined the jazz idiom from its beginning through the present day. Duke Ellington, Charlie Parker, Miles Davis, and John Coltrane.

MUL 5402 Keyboard Literature (3). Survey of keyboard literature from antiquity through the twentieth century. Emphasis on the evolving role of the keyboard in music history.

MUL 5456 Wind Instrument Literature (3). The history and development of Wind Instrument Literature from ca. 1650 to the present day. Music appropriate for all levels of instruction from middle school through college level is included. Prerequisite: Advanced/graduate standing.
MUL 5505 Symphonic Literature (3). The study of the symphony and the symphonic tone poem from its origin in the Baroque period to the twentieth century. Prerequisite: Graduate standing.

MUL 5645 Choral Literature (3) A survey of sacred and secular choral literature from the Middle Ages to the present. Emphasis on stylistic analysis and performance practice for each style period. Includes score study, aural analysis of recorded performances and in-class performances. Prerequisite: Permission of the instructor.

MUM 5705 Advanced Business of Music (3). Topics include strategic planning, employee development, and decision making. Also includes a study of publishing, collection agencies, creative unions, and contracts with composers and publishers. Prerequisite: MUM 4301 and permission of graduate advisor.

MUM 5715 Performing Arts Production I (2). Focus on the various aspects of performing arts production. Students attend performances of every possible genre of performing arts and critique the production and the venue. Prerequisite: Permission of graduate advisor.

MUM 5725 Live Music Operations I (2). How promoters and producers project a profit margin and the ability to oversee a profit; considering overhead, scheduling, accommodations, concessions, sound and light. Prerequisite: Permission of the graduate advisor.

MUM 5726 Live Music Operations II (3). Continuation of MUM 5725, Live Music Operations I. Emphasis on promoters', producers', and managers' ability to project a profit margin. An on-campus production is required as the final project. Prerequisite: MUM 5725 and permission of the graduate advisor.

MUM 5795 Music Production Laboratory I (1). Students are assigned to work in the production of 10-15 individual concert productions. The productions are varied and provide the students the opportunity to put in practice work learned in the classroom. Prerequisite: Permission of the graduate advisor.

MUM 5796 Music Production Laboratory II (1). A continuation of Music Production Lab I. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisite: MUM 5795 and permission of the graduate advisor.

MUM 5797 Music Production Laboratory III (1). A continuation of Music Production Lab II. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisite: MUM 5796 and permission of the graduate advisor.

MUM 5946 Performance Arts Internship (9). Interns assist and/or observe in all job functions and duties at an entertainment venue. Areas include: production management; design services; technical production; talent booking and casting; and creative show development. Prerequisite: Permission of graduate advisor.

MUS 5345 MIDI Technology (2). Introduction to MIDI technology including sequencing, notation, patch editing and a variety of other applications. Prerequisite: Graduate standing.

MUS 5512 Sound Reinforcement (2). Exploration of live music on location, dealing with commonly encountered acoustical problems and how to overcome them. Prerequisite: Permission of the graduate advisor.

MUS 5655 Expanding Artiste Expression (2). Focuses on expanding the horizons of the artistic vision of the student. Accomplished through a series of projects. Prerequisite: Permission of the graduate advisor.

MUS 5906 Thesis/Recital (1-6). For students working on a thesis or recital for MM in Music. To be completed under the supervision of a faculty member. Prerequisite: Graduate student.

MUS 5971 Thesis (1-6). Research and/or performances towards completion of master's thesis work. Prerequisite: Permission of graduate area advisor.

MUT 5316 Advanced Orchestration (3). Examination of orchestration techniques utilized by composers from the Baroque era through current times. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5355 Advanced Jazz Arranging and Composition (3). Scores and recordings of various sized jazz ensembles are studied for technique and style. Student's compositions and arrangements are performed. Topics include: forms, voicing techniques, instrumentation, live performance vs. recording session. Prerequisite: MUT 4353; MUT 4663; MUT 4664.

MUT 5381 Arranging (3). A course in practical arranging for the public school teacher, including choral, band, and popular arranging. Prerequisites: MUT 2117 and MUT 2227.

MUT 5411 Modal Counterpoint (3). Develop skills necessary to write in the Renaissance style and to analyze the masterworks of Palestrina, Lassus, Victoria, and others. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5486 Advanced Jazz Rehearsal Techniques (2). Study and practical application of complete preparation, programming, and rehearsing of small and large jazz ensembles. Students study scores and recordings of various jazz styles and rehearse school's ensembles. Prerequisite: MUN 4784; MUT 4643; MUT 4663; MUT 4664.

MUT 5585 Musical Styles Through Strict Composition (3). This course is designed to develop basic compositional skills for writing works in all forms and fugues. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5627 Schenkerian Analysis (3). Advanced studies in Schenkerian analysis of tonal music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5628 Atonal Analysis (3). Advanced studies in set theory and serial techniques of twentieth-century music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5629 Analytical Techniques (3). Examination and practice of various techniques utilized in the analysis of art music from the common practice period through the 20th
century. Prerequisite: Placement exam or Permission of the instructor.

MUT 5646 Advanced Jazz Techniques I (2). A comprehensive, theoretical study of topics related to jazz performance. Includes the nature of improvisation, advanced jazz harmony, theory of jazz improvisation, transcribing and analyzing solos of jazz masters. Prerequisite: MUT 4643.

MUT 5647 Advanced Jazz Techniques II (2). A continuing study of topics related to jazz performance. Includes analyzing solos of jazz masters, development of repertoire, style, and aesthetic concepts. Prerequisite: Advanced Jazz Techniques I.

MUT 5746 Jazz Pedagogy (2). Materials, techniques, and philosophies related to teaching jazz. Includes preparation of courses, course outline and syllabi, lesson plans, lectures. Texts and other resources such as videos, recordings, periodicals, are examined. Prerequisite: MUT 4663; MUT 5355.

MUT 5930 Special Topics (3). Examination of composers, compositional schools, or other areas of specialization and/or interest to the theory/composition faculty. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MVJ 5150 Jazz Piano Techniques (1). Performance of basic jazz standards. Includes basic techniques of the instrument, chord voicing, comping, lead sheet realization for non-pianists. Prerequisite: Graduate standing or permission of the instructor.

MVJ 5350 Principle Applied Jazz: Keyboard (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5354 Principle Applied Jazz: Bass (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz. Prerequisite: MVJ 4344.

MVJ 5355 Principle Applied Jazz: Flute (2) Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5356 Principle Applied Jazz: Saxophone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5357 Principle Applied Jazz: Trumpet (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5358 Principle Applied Jazz: Trombone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5359 Principle Applied Jazz: Percussion (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5453 Principle Applied Jazz: Guitar (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz. Prerequisite: MVJ 4343.

MVJ 5455 Piano Pedagogy (2). Survey of current piano teaching methods.

Doctor of Philosophy in Physics

The Doctor of Philosophy in Physics program requires 90 credit hours at the graduate level, including a minimum of 24 credit hours of dissertation research. A maximum of 36 credits may be transferred from another graduate program with the approval of the Graduate Committee.

Required Courses:
1. All Required Courses for the Master of Science in Physics program listed above.
2. Four additional graduate level (500 or higher) courses.

All doctoral candidates must take a Ph.D. comprehensive exam. This exam is designed to test general knowledge of physics at the advanced undergraduate and first-year graduate level and must be passed not later than the beginning of the third year enrolled in the program. Within two years of entering the program, students must submit to the Graduate Committee their choices of research and advisor. Course work and research programs shall be planned with the advice and approval of the advisor. After passing the comprehensive exam and prior to or during the first semester of the fourth year enrolled in the program, a student must also take a candidacy exam which tests the ability to conduct research in a particular field, as well as the ability to present the results of that research in an organized and coherent manner.

Course Descriptions

Definition of Prefixes
AST-Astronomy; PHYS-Physics; PHZ-Physics; PSC-Physical Sciences; ENU-Nuclear Engineering.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

AST 5215 Stellar Astrophysics (3)
Topics in Stellar Astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on current stellar structure, evolution models and the underlying observational data. Prerequisites: PHYS 3124, PHYS 3503, PHYS 4324, PHYS 4222 or equivalent. (F or S)

AST 5507 Celestial Mechanics (3).
Principles of classical Newtonian mechanics applied to the motions of planets, satellites, and interplanetary space probes. Prerequisites: PHYS 4222 or equivalent. (F or S)

PHY 5115 Mathematical Physics I (3). Methods of solution for problems in mathematical physics: Variational principles, complex variables, partial differential equations, integral equations, and transforms. Prerequisites: MAC 3313, MAP 3302. (F)

PHY 5116 Mathematical Physics II (3). Additional solution methods in mathematical physics: Perturbation methods, Laplace’s and Poisson’s Equations, waves, special functions, vector fields, vector waves. Prerequisite: PHY 5115. (S)

PHY 5235 Nonlinear Dynamics and Chaos (3). Introduction to the universal behavior of classical systems described by nonlinear equations. Prerequisites: PHYS 4222, MAA 4211. (F or S)

PHY 5240 Advanced Classical Mechanics (3). Advanced formulations of the equations of motion and their applications: the central field problem, rigid body dynamics, oscillations and continuous systems. Prerequisite: PHYS 4222. (F)

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electro-magnetism: Electrostatics, Green’s function, Laplace’s equation, multipole expansion, magneto-statics, Maxwell’s equations, waves. Prerequisite: PHYS 4324. (F)

PHY 5347 Advanced Electromagnetic Theory II (3). Additional topics in classical electromagnetism: Wave guides, radiating and diffracting systems, Kirchoff’s integral for diffraction, covariant formulation of field equations. Prerequisite: PHYS 5346. (S)

PHY 5446 Laser Physics (3). Principles of lasers and laser applications, including atom-field interactions, stimulated emission and dipole oscillators, optical resonators and electromagnetic modes, semiclassical laser theory, and specific laser systems. Prerequisite: PHYS 4605. (F or S)
PHY 5667 Nonperturbative Quantum Field Theory (3). Euclidean QFT, renormalization group, local gauge symmetry, lattice regularization, Wilson action, fermion fields, expansion schemes, numerical algorithms, hadron properties, recent developments. Prerequisite: PHY 4605.

PHY 5930 Seminar in Physics (1-3). A series of specialized lectures/seminars on selected topics in Physics/Astro-Physics. Prerequisites: Permission and methods.

PHY 5936 Special Topics Research (1-10). Participation in an original investigation in theoretical or experimental physics/astro-physics under direct faculty supervision. Prerequisite: Permission of the instructor.

PHY 5937, PHY 5938 Seminar in Special Topics (3). Seminar work under the supervision of a faculty member on subject material of mutual interest.

PHY 5940 Physics Graduate Teaching Workshop (1). The teaching of physics laboratories. Includes practice of lab experiments, use and adjustment of lab equipment and explanation of departmental grading policy. Supplemented by outside lectures on university policies. (F)

PHY 6524 Statistical Physics (3). Fundamental principles of statistical mechanics; fluctuations, noise and irreversible thermodynamics; kinetic methods and transport theory. Prerequisites: PHY 3503 and PHY 4222. (S)

PHY 6645 Advanced Quantum Mechanics I (3). Advanced topics in quantum mechanics: Quantized systems, relativistic quantum mechanics, potential scattering. Prerequisite: PHY 4605. (F)

PHY 6646 Advanced Quantum Mechanics II (3). Additional topics in advanced quantum mechanics: Collision theory, symmetry transformations, conservation laws, group theory. Prerequisite: PHY 6645. (S)

PHY 6651 Quantum Scattering Theory I (3). The investigation of atomic and electronic scattering processes: Potential scattering, long range potentials, electron-atom collisions. Prerequisite: PHY 6645.

PHY 6652 Quantum Scattering Theory II (3). The mathematical investigation of scattering processes: Auto-ionization, fast vs. slow collisions, Regge poles, S and T matrices. Prerequisite: PHY 6651.

PHY 6668 Relativistic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields, CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6646.

PHY 6669 Relativistic Quantum Field Theory II (3). Additional topics in relativistic quantum fields: perturbation theory, U matrix, Wick's theorem, dispersion relations, renormalization, Ward identity, renormalization group, path integral formalism. Prerequisite: PHY 6668.


PHY 6676 Quantum Theory of Many Particle Systems II (3). Additional topics in the physics of many particle systems: Fermi gas, Bose condensation, Hartree-Fock approximation, random phase approximation, finite temperature formalism, hadrons. Prerequisite: PHY 6675.

PHY 6935 Graduate Research Seminar (1-2). Seminars presented by students, faculty, and visitors on a variety of topics of current research interest. Repeatable. Required every semester. (F and S)

PHY 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of Department. (F,S)

PHY 6971 Master's Thesis (3). Theoretical and/or experimental research leading to thesis. Prerequisite: Permission of major professor. (F,S)

PHY 7980 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in theoretical or experimental physics under faculty supervision. Prerequisite: Permission of the instructor. (F, S)

PHY 7981 Dissertation (1-12). Original research work towards completion of dissertation and presentation and defense of dissertation. Prerequisite: Permission of major professor and Ph.D. candidacy status.

PHZ 5130 Theoretical Treatment of Experimental Data (3). Statistical analysis of physical processes and statistical tests, with particular emphasis on instrumentation-related problems. Mathematical modeling and computer simulation. Prerequisite: Undergraduate statistics course, or equivalent, or Permission of the instructor.

PHZ 5151 Computational Physics (3). Physical systems by means of computer simulation. Monte Carlo, molecular dynamics, percolation, random systems, chaos, criticality, gauge fields. Prerequisite: PHY 5115 and PHY 5116.

PHZ 5234 Atomic and Molecular Collision Phenomena (3). Investigation of atomic and molecular collision phenomena: Kinetic theory, elastic scattering, inelastic scattering, excitation and ionization, heavy particle collisions. Prerequisites: PHY 4605 and PHY 4222. (F or S)

PHZ 5304 Advanced Nuclear Physics (3). The fundamental properties of nuclei, nuclear forces, nuclear models, radioactivity, weak processes, and nuclear reactions. Prerequisite: PHY 4604. Corequisite: PHY 4605. (F or S)

PHZ 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, crystalline surfaces, and amorphous materials. Prerequisites: PHY 3124 or CHM 3411.

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, current densities, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 5506 Plasma Physics (3). An introduction to plasma fundamentals, the Boltzmann equation, the hydrodynamic equations, orbit theory, the interaction of electromagnetic waves with plasmas, the pinch effect and instabilities. Prerequisite: PHY 3049. (F or S)

PHZ 5606 Special Relativity (3). A detailed study of special relativity: Lorentz transformations, relativistic electrodynamics. Prerequisite: PHY 3124.

PHZ 5607 General Relativity (3). General relativity using differential geometry and tensor analysis. Topics include Einstein's field equations and their solutions, applications and
observational tests. Black Holes and cosmology are also discussed. 
Prerequisite: PHY 4222 and PHY 4605.

PHZ 6255 Molecular Biophysics (3). The use of theoretical physics techniques to investigate biological systems: Protein structure and dynamics, electron tunneling, nuclear tunneling, hemoglobin, photosynthesis, vision. Prerequisite: PHY 4605. (F or S)

PHZ 6326 Low Energy Nuclear Physics I (3). Introduction to the physics of nuclei and nuclear processes: Nuclear forces, scattering processes and nuclear models. Prerequisite: PHY 4605.

PHZ 6327 Low Energy Nuclear Physics II (3). Additional topics in nuclear physics: The shell and collective models, nuclear reactions and applications, scattering theory, entrance channel phenomena, rearrangement collision and breakup reactions. Prerequisite: PHZ 6326.


PHZ 6359 Quantum Gauge Field Theories (3). Basics in field quantization, nonabelian symmetries, the standard SU(3)xSU(2)xU(1) model, non-perturbative features, lattice regularization and numerical simulation. Prerequisites: PHY 4605, PHY 5346. (F or S)

PHZ 6426 Advanced Solid State Physics (3). Electronic structures of solids and surfaces, electron-electron interaction, superconductivity, magnetism in solids, amorphous systems, glasses, polymers, percolation, localization, phase transition, fractals. Prerequisites: PHY 4324 and PHY 4605. (F or S)

PHZ 6437C Surface Physics (3). An introduction to theoretical and experimental techniques AES (Auger Electron Spectroscopy), LEED (Low Energy Electron Diffraction), XPS (X-ray Photoelectron Spectroscopy), AFM (Atomic Force Microscopy) and STM (Scanning Tunneling Microscopy). Prerequisite: PHZ 5405 or permission of the instructor.
Political Science

Nicole Rae, Professor and Chairperson
Astrid Arraras, Assistant Professor
Colton Campbell, Assistant Professor
Virginia Chanley, Assistant Professor
Ronald Cox, Associate Professor
Keith Dougherty, Assistant Professor
Eduardo Gamarra, Professor and Director, Latin American and Caribbean Center
Joel Gottlieb, Associate Professor
Ivelaw Griffith, Professor and Associate Professor
Kevin Hill, Associate Professor and Undergraduate Program Director
Antonio Jorge, Professor
Jeanne Kates, Instructor
Mary Beth Melchor, Assistant Professor
Dario Moreno, Associate Professor
Brian Nelson, Associate Professor
Richard Olson, Professor and WWR Foundation Eminent Scholar,
International Hurricane Center
Timothy Power, Assistant Professor
William Reno, Associate Professor
Mark Rosenberg, Professor and Provost
Cheryl Rubenberg, Associate Professor
Rebecca Salokar, Associate Professor
John Stack, Professor and Director, Institute for Public Policy and Citizenship Studies
Judith H. Stehm, Professor
Mary Volcansek, Professor
Christopher Warren, Associate Professor

The Master of Arts and the Doctor of Philosophy Degrees in Political Science at Florida International University are designed to provide students with a comprehensive knowledge of political science. The graduate program in political science builds on faculty strengths and distinguishes itself by stressing a comparative approach to the study of politics. The program is designed to equip its graduates with a solid foundation in the basic theories and methods of political science, in conjunction with an in-depth education in selected traditional sub-fields. The program has a particular focus on Comparative Politics and American Politics.

Admission Procedures

Applicants seeking admission for the Fall semester should have application materials submitted by May 1st. Incomplete applications cannot be considered by the Graduate Admissions Committee. Admission decisions will be announced no later than June 1st. Applicants must also send copies of the following materials directly to the Department’s Admissions Committee at the following address: Department of Political Science, DM 480, University Park Campus, Miami, Florida 33199. Telephone: (305) 348-2226; Fax: (305) 348-3765.

The following application materials must be submitted to the University’s Admissions Office.

1. A completed FIU Graduate Application form with requisite application fees.
2. Official transcripts of all university-level work, including undergraduate or professional school courses.
3. An official report of Graduate Record Examination (GRE) scores.
4. All foreign students whose native language is not English must submit official reports of Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE).

Applicants must send the following materials directly to the department’s admissions committee.

1. Two letters of reference from former instructors who are able to evaluate the applicant’s potential for graduate study. Applicants should ensure that each letter is signed by the author along the sealed flap of the envelope.
2. A personal statement of intent, including a discussion of education and career objectives and the specific relationship of a Master’s or Doctoral degree in political science to the achievement of those objectives. The personal statement should not exceed three typewritten, double-spaced pages.

Master of Arts

Admission Requirements

Admission to the Master’s program is competitive. Meeting the minimum requirements does not guarantee acceptance.

The minimum requirements for admission to the M.A. program include:
1. A baccalaureate degree from an accredited college or university.
2. A minimum 3.2 grade point average (on a 4.0 scale) during the last two years of a student’s undergraduate program (students with graduate or professional course work will be evaluated individually).
3. A minimum combined score of 1000 on the verbal and quantitative sections of the GRE.

4. Foreign students whose native language is not English must have a TOEFL (Test of English as a Foreign Language) score of 550 or higher.

Degree Requirements

The course of study for the M.A. in Political Science requires 30 credit hours. A final research project and research seminar are required components:

Required Courses (9 credits)

- POS 5716 Foundations of Political Science 3
- POS 5706 Research Methodology 3
- POS 6976 Research Seminar 3

Core Courses (9 credits)

Each student is required to take three of the following four core courses:

- POS 5045 Seminar in American Politics 3
- CPO 5091 Seminar in Comparative Politics 3
- INR 5007 Seminar in International Politics 3
- POT 5007 Seminar in Political Theory 3

Electives (12 credits)

Students are required to take four elective courses. A student may take a maximum of six credit hours in a cognate field or in an approved cognate program.

Doctor of Philosophy

Admission Requirements

Admission to the Ph.D. program is competitive. Meeting minimum requirements does not guarantee acceptance.

The minimum requirements for admission to the Ph.D. program include:
1. A baccalaureate degree from an accredited college or university;
2. An undergraduate GPA of 3.2 and/or a graduate GPA of 3.25;
3. A minimum combined score of 1000 on the verbal and quantitative sections of the GRE. The GRE Political Science examination is not required.
4. Foreign students whose native language is not English must have a TOEFL (Test of English as a Foreign Language) score of 550 or higher.

Degree Requirements

The Ph.D. program requires a minimum of 90 credit hours beyond the Bachelor’s degree. The Doctor of Philosophy in Political Science is conferred based on satis-
factory completion of required coursework, a demonstrated mastery of a broad field of knowledge, and successful completion and defense of the dissertation. The degree provides graduates with a solid foundation in the basic theories and methodologies of political science in conjunction with specialization in traditional sub-fields. Students will, in consultation with their faculty advisors, determine the contents of their course work. Students will specialize in three examination fields. Four of the possible fields are based on the traditional substantive areas of Political Science (American Politics, Comparative Politics, International Politics, and Political Theory). A fifth field (Area Studies) allows students to concentrate on either a regional area or substantive issue. Normally, all students will take 12 credit hours in disciplines outside the Political Science department.

Students' proposed programs must be approved by their advisors and the Graduate Studies Committee. A minimum of three semesters of full-time residency (nine-hours per semester) is expected prior to filing for the comprehensive examinations.

Required Courses (10 credits)

CPO 5091 Seminar in Comparative Politics 3
INR 5007 Seminar in International Relations 3
POS 5045 Seminar in American Politics 3
POT 5007 Seminar in Political Theory 3

Fields (24-45 credits in 3 fields):
Comparative Politics
International Politics
American Politics
Political Theory

Language Requirement

The Political Science Ph.D. Program requires competency in one foreign language or demonstrated competency in computer and methodological techniques when considered more appropriate. Language competency must be demonstrated prior to taking the comprehensive examinations.

Comprehensive Examination

After satisfactory completion of course work, students will take comprehensive exams before starting work on the dissertation and being admitted to candidacy. The comprehensive exams will cover core courses and functional fields. They will be written and oral.

Dissertation (24-45 credits)

After passing the comprehensive exams, students are admitted to candidacy and enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the work, a public defense of the dissertation will be scheduled in accordance with university policy.

Financial Aid

The program has a limited number of graduate assistantships available for qualified students. Assistantships are awarded on a competitive basis only to full-time students. Students applying for full-time status are considered automatically for these awards. Assistantships are renewable each year for up to four years based on satisfactory progress and performance. The University also grants need based financial aid. For information on these awards call the Financial Aid Office at (305) 348-2431.

Course Descriptions

Definition of Prefixes

CPO-Comparative Politics; INR-International Relations; POS-Political Science; POT-Political Theory; PUP-Public Policy.

CPO 5036 Politics of Development (3). This course examines divergent explanations for development and underdevelopment. Of central importance are the concepts and theories which emphasize the political dimensions of development processes of development, and actors in the development process.

CPO 5091 Seminar in Comparative Politics (3). A foundation in the development of the field of comparative politics and in the major schools of thought that have molded perspectives on comparative political analysis.

CPO 5325 Politics of the Caribbean (3). Examines the structural and institutional aspects of the politics of the Caribbean in both domestic and international contexts. Prerequisite: Graduate standing.

CPO 5934 Topics in Comparative Politics (3). A rigorous examination of a topic in comparative politics. Subject matter varies according to instructor. Topic will be announced in advance.

CPO 5936 Seminar in Comparative Political Parties (3). Students read and discuss major works on parties by conservative, liberal, and marxist authors.

CPO 6066 Comparative Constitutional Law (3). An examination of constitutionalism in both established and developing democracies. Particular emphasis on the role of courts, judicial review and judicial remedies using doctrinal, contextual and theoretical analysis.

CPO 6084 War, Peace and the Military (3). Examines theories of the relationship between societies, governments and their militaries. Emphasis on relationship between militaries and a nation's experience with peace and participation in war. Pre-requisite: Graduate standing.

CPO 6106 Seminar on European Politics (3). Advanced discussion of major themes in European politics. Topics include corporatism, post-materialism, democratization, and European integration.

CPO 6206 Seminar in African Politics (3). Studies the crisis of African development. Topics include colonialism, internal cleavages, and impact of the global economy.

CPO 6307 Seminar on South American Politics (3). Explores the realities and myths of the democratization experience of South America.

CPO 6376 Seminar in Central American Politics (3). Central America's socio-political evolution. Attention is given to both the national and international politics of the region.
CPO 6407 Seminar in Politics of the Middle East (3). In depth analysis of comparative theoretical perspectives of political processes in the Middle East.

INR 5007 Seminar in International Politics (3). An advanced graduate course designed to give students a specialized knowledge of the classics in international politics. The course traces the development of international politics from Thucydides to the present.

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5105 American Foreign Policy (3). Compares different perspectives in foreign policy analysis. Provides a comprehensive understanding of major issues in U.S. policy.

INR 5414 Topics in International Law (3). An intensive examination of the political dimensions of international law in the context of rapidly changing global political relations.

INR 5934 Topics in International Politics (3). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic to be announced in advance.

INR 6080 Seminar on Non-State Actors (3). Explores the nature of non-state actors in international politics, including cities, interest groups, multinational, and individuals.

INR 6205 World Politics (3). This course provides graduate students with an understanding of the major conceptual approaches to world politics. It emphasizes the analysis of significant actors, institutions, and processes at work in the contemporary global system as well as possible future alternatives.

INR 6705 Seminar in International Political Economy (3). Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

INR 6936 Seminar in Inter-American Politics (3). Focus on U.S.-Latin American relations. Attempts to link the theoretical literature on U.S. foreign policy with empirical developments.

INR 6939 Seminar in International Law (3). Allows for specialized and topical offerings by regular and visiting faculty. Also permits experimental courses.

POS 5045 Seminar in American Politics (3). The advanced study of U.S. politics. Students read and discuss the major works and theories concerning American politics and government.

POS 5146 Seminar in Urban Politics (3). Examination of processes by which urban areas are governed. Emphasis is on conflicts over structures, power, policy and the politics of ethnicity and class.

POS 5158 Topics in Politics (3). Subject matter varies according to instructor.

POS 5208 Seminar in Political Behavior (3). Analyzes the literature in political behavior. Special emphasis is on voting, socialization, attitudes, partisanship, campaigning, the media, and political participation in the developed democracies. Prerequisite: Seminar in Political Science Methodology.

POS 5447 Seminar in U.S. Political Parties (3). Students read and discuss the major works and theories on U.S. political parties.

POS 5638 Topics in Public Law (3). A rigorous examination of a topic in public law. Subject matter varies according to instructor. Topic will be announced in advance.

POS 5702 Teaching Political Science (1). Introduces graduate students to the pedagogical and practical aspects of teaching political science. Topics will include selecting books, writing a syllabus, lecturing, running discussion groups, and testing and grading. Covers professional ethics, and student rights and responsibilities.

POS 5706 Research Methodology (3). This course is an introduction to the principal concepts and techniques of quantitative and non-quantitative methodology in the social sciences. It is designed to familiarize the student with the language and format of quantitative and non-quantitative applications in order to permit students to deal effectively with the literature of their field.

POS 5716 Foundations of Political Science (3). Prepares students for the advanced study of politics. Areas of study include history of political science as a discipline, comparison of classical and modern sciences of politics and realpolitik, epistemological foundations.

POS 5909 Independent Study (1-6). Designed for advanced students who wish to pursue specialized topics in political science. Arrangements must be made with instructor during prior semester.

POS 5932 Topics in Urban Politics (VAR). An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimized, and administered by urban policy-making processes. Includes a discussion of urban political culture.

POS 6072 Seminar in U.S. Political Economy (3). Examines core issues related to the U.S. political-economic system, and the challenge of business to democracy. The student to understand the major problems confronting communities in urban areas.

POS 6266 Community POWER Theory (3). Studies the concept of power in the U.S. and classics of community power literature.

POS 6286 Judicial Research (3). Examination of the methodological approaches used to study courts in a political context. Special attention to seminal works that focus on individual, small group and institutional behavior, and extra-legal influences.

POS 6415 Seminar on the U.S. Presidency (3). Examines the most important works on the U.S. Presidency, and the evolution of the office since 1789.

POS 6427 Seminar on the U.S. Congress (3). Discussion of the scholarly literature on Congress. Students analyze trends in congressional power and possible reforms.

POS 6608 Seminar on U.S. Supreme Court (3). Seminar covers literature, both current and classic, on U.S. Supreme Court. Topics covered
typically include the major paradigms, appointment, access, agenda setting, decision making and impact.

POS 6639 Seminar in Public Law (VAR). Graduate seminar on special topic in public law. Topic to be announced in advance.

POS 6725 Formal Political Modeling (3). Introduces students to the foundations of public choice. Particular topics may include decision theory, social choice, spatial voting models, and game theory, among others.

POS 6918 Seminar in Political Science Research Methods (3). Examines the methods used to design, execute, and critique empirical research in political science, addressing a variety of methodological issues. Prerequisites: POS 5706 and POS 5716.

POS 6937 Seminar in Politics (VAR). Subject matter varies according to instructor.

POS 6971 Thesis (1-6). Requires students to enroll for thesis or dissertation research for at least one credit hour every semester in which they are engaged in such research. Prerequisites: All other course work for the Master's.

POS 6976 Research Seminar (3). Required course for all MA candidates during completion of their major research project. The course guides student research while in progress. Prerequisite: POS 5706.

POS 7976 Pre-Dissertation Research (1-9). During the term in which students take Ph.D. comprehensive exams, this course enables them to concentrate on completion of their dissertation prospective. Prerequisite: Completion of all other Ph.D. coursework.

POS 7980 Dissertation (3-12). Supervised research and writing of an original research project. Prerequisites: Candidacy and permission of advisor.

POT 5007 Seminar in Political Theory (3). An examination of writings from a diverse list of some of the major political theorists in the western tradition from antiquity to the present.

POT 5307 Feminist Political Theory (3). Examines feminist political theory in the second half of the twentieth century with the focus on the work of U.S. scholars.

POT 5326 Graduate Seminar in Class Analysis (3). The theoretical and empirical issues associated with class divisions in contemporary societies. Theoretical debates regarding definitional problems of class identity and empirical case studies highlighting class conflict and stratification.

POT 5934 Topics in Political Theory (3). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

POT 6015 Seminar in Classical Political Thought (3). Examination of key elements of classical political thought from the Hellenic to early Christian periods.

POT 6056 Seminar in Modern Political Thought (3). Examines important works and theories in political thought from the renaissance to the early 19th century.

POT 6067 Seminar in Contemporary Political Thought (3). Examines political theories of the 19th and 20th centuries. Special emphasis on the tension between modern and postmodern theory.

POT 6208 Seminar in American Political Thought (3). Students read and discuss classic and contemporary interpretations of U.S. political thought, and apply those ideas to modern U.S. politics.

POT 6303 Seminar on Self and Polity (3). Focuses on conceptions of self that are reinforced by different political regimes. Examines humanities and social science works that address self and polity issues.

POT 6416 Seminar in Marxism (3). Analysis of the evolution of Marxism from Marx to the present. Particular attention is given to contemporary Marxist debates.

POT 6603 Political Theory of the Modern State (3). Analyzes evolution and theories of the modern state from the high middle ages to the present. Pre-state formations, classical states, and social science theories of the state are also discussed.

PUP 5934 Topics in Public Policy (1-6). A rigorous examination of a topic in public policy. Subject matter varies according to instructor. Topic will be announced in advance.
Psychology
Marvin Dunn, Associate Professor and Chairperson
Lorraine Bahrick, Professor
Margaret Bull-Kovera, Assistant Professor
Brian Cutler, Associate Professor and Vice Provost, Academic Affairs
Jean Erber, Professor
Luis Escovar, Associate Professor
Gordon Finley, Professor
Ronald Fisher, Professor
Arthur Flexer, Associate Professor
Leslie Frazier, Assistant Professor
Jacob Gewirtz, Professor
Fernando Gonzalez-Religosa, Associate Professor
Margaret Kovera, Associate Professor
William Kurtines, Professor
Mary Levitt, Professor
Michael Markham, Assistant Professor
Michelle Marks, Assistant Professor
Marilyn Montgomery, Assistant Professor
Gary Moran, Professor
Janat Parker, Professor
James Rotton, Associate Professor
Juan Sanchez, Associate Professor
Bennet Schwartz, Associate Professor
Wendy Silverman, Professor
Jonathan Tubman, Associate Professor
Chockalingam Viswevaran, Associate Professor

Master of Science in Psychology
The Masters of Science in Psychology program at the University is designed to train practitioners and researchers who can function in a variety of applied settings. The core curriculum and admission prerequisites are intended to provide students with a base of knowledge in psychology. A distinctive feature of the program is its emphasis on a close working relationship between student and faculty. Under faculty supervision, students are encouraged to develop individually tailored programs of study that reflect both student interests and program strengths.

The curriculum consists of 36 semester hours of graduate study in which the exposure focus specifically on training the student to perform the skills mentioned above. Students are expected to select electives, project/thesis topics, and supervised field experiences that meet not only the degree requirements, but also their academic interest and particular professional objectives. Six of the 36 semester credit hours consist of Master’s thesis credits.

The Mental Health Counselor Master’s program allows students to meet university requirements plus the requirements for a Mental Health Counseling license.

Doctor of Philosophy in Psychology
The doctorate program in psychology has a two-fold focus: (1) life-span development and (2) applied psychology. The program emphasizes normal development as well as cross-cultural and urban perspectives on the life span and legal and industrial/organizational applied psychology. The emphasis is on academic quality and the curriculum is designed to foster a commitment both to basic research and to application as an integral part of the individual student’s specialty area development. The curriculum offers a broad background in life-span development and applied psychology while encouraging the development of an area of specialization early in graduate training.

Students are expected to master a series of core-course requirements designed to facilitate a thorough grounding in theory, methodology, and content both in basic and applied research. In addition, a number of seminars reflecting specialized foci are offered. Students are also required to pursue specific areas of interest through independent study with individual faculty members and through apprenticeship with a primary advisor for the purpose of acquiring direct research experience.

Graduate Admission Requirements
The following are in addition to the University’s Graduate Admission Requirements:

1. A 3.0 or higher GPA during the last two years as an upper division student and a total score (quantitative plus verbal) of 1,000 or higher on the GRE for the Master’s degree. A 3.0 or higher GPA and a GRE verbal and quantitative of 1100 or higher are required for the Ph.D. degree. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 580 score of higher.

2. The GRE and GPA stated above are only minimum requirements. All applications are reviewed by the Program Area Admission Committee, which makes the final admissions decisions. Since admission to the program is competitive, the committee’s requirements are normally higher than the minimum aforementioned standards.

Graduate Admissions Procedures
Applicants must submit the following to the Graduate Studies Admission Committee, Department of Psychology, Florida International University, Miami, Florida 33199:

1. A photocopy of the admission application submitted to the Admissions Office.

2. A brief essay stating the reasons for the interest in the program and career goals.

3. Three letters of recommendation, preferably from previous instructors and/or persons familiar with applicant’s academic background.

Applicants to the program who are not psychology majors may be accepted conditionally until they meet the category requirements, listed below, early in their graduate career. A maximum of nine semester hours credit earned in the non-degree seeking student category exclusive of prerequisite undergraduate courses may be applied to graduate degree requirements. The undergraduate course requirements are designed to make certain that students accepted into the graduate program have a broad base of dependable psychological knowledge and acquaintance with the basic methodologies upon which the discipline is founded.

Category A. Satisfactory completion of one psychology laboratory or research methods course.

Category B. Satisfactory completion of introductory upper division statistics.

Deadline for review of completed applications is January 15 for fall admission.

Course Descriptions
Definition of Prefixes
CLP-Clinical Psychology; CYP-Community Psychology; DEP-Developmental Psychology; EAB-Experimental Analysis of Behavior; EDP-Educational Psychology; EXP-Experimental Psychology; INP-Industrial and Applied Psychology; LIN-Linguistics; PCO-Psychology for Counseling; PPE-Psychology of Personality; PSB-Psychobiology; PSY-
CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if feasible) are covered.

CLP 5169 Proseminar in Developmental Psychopathology (3). A comprehensive review of topics in developmental psychopathology including history, scope, methods, individual and contextual influences, developmental course, long-term outcomes, and resilience. Prerequisites: Graduate standing or Permission of the instructor.

CLP 5175 Personality Dynamics (3). A review of different approaches to the study of personality. Prerequisites: Successful completion of a course in theories of personality, or equivalent. Permission of the instructor.

CLP 5185 Current Issues in Mental Health (3). A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming, and administering mental health services; political, ethical, and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisite: Abnormal Psychology or permission of the instructor.

CLP 5931 Ethical Code in Psychological Practice (3). Ethical principles, rules, procedures of Psychologists. Clinical application and incorporation of the principles into professional interactions. Ethical reasoning is emphasized.

CLP 6168 Psychopathology Across the Life-Span (3). Exploration of the causes of psychopathology from a life-span developmental orientation and implications for theories of personality. Prerequisites: CLP 5166 and Permission of the instructor.

CLP 6375 Clinical Psychology (3). Introduction to the science-profession of clinical psychology, as it is applied to preventing, diagnosing and treating maladaptive or deviant human behavior and relationships. Prerequisites: Admission to the Graduate Program in Psychology or Education and Permission of the instructor.

CLP 6395 Forensic Psychology (3). This course surveys the practical and ethical issues surrounding the interface between clinical psychology and the law. Prerequisite: CLP 4144, CLP 6168 or equivalent of either.

CLP 6436 Introduction to Psychological Assessment (3). This course provides instruction in the principles and methods underlying the administration, construction and evaluation of psychological tests and measures. Prerequisite: Graduate standing.

CLP 6437 Behavioral Assessment in Childhood (3). Standardized tests and inventories for the behavior assessment of infants, children, and adolescents will be surveyed. Prerequisites: Proseminar courses and second year graduate standing.

CLP 6438 Psychological Assessment (3). Theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, and personality testing. May be repeated for credit with different subject matter. Prerequisite: STA 3122 and Permission of the instructor.

CLP 6498 Diagnosis and Treatment of Sexual Disorders (3). Clinical examination of sexual functioning, emphasizing disorders of gender identity, paraphilias and other dysfunctions and intimacy problems. Prerequisite: Graduate standing or Permission of the instructor. Corequisites: SOP 3772 or equivalent.

CLP 6945 Clinical Practicum in Psychology (1-3). Supervised experience in clinical techniques and methods. Prerequisites: Graduate standing & Permission of the instructor.

CLP 6948 Clinical Internship (1-3). Clinical Internship in Psychology for Ph.D. candidates who have completed the Clinical Practicum and at least 45 graduate credit hours. Prerequisites: Graduate standing and Permission of the instructor, CLP 6945.

CYP 5534 Groups as Agents of Change (3). Theory and practice in utilizing groups as agents of change or development in communities and organizations. Didactic presentation and structured exercises focus on relevant issues. Students design and implement problem-focused interventions, using class as client system.

CYP 5954 Community Psychology Field Experiences II (5). Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

CYP 6526 Psychological Methods of Program Evaluation (3). Development of skills for the psychological assessment monitoring and evaluation of human service programs with emphasis on the application of basic principles of behavioral science research in the field, exclusive of public school settings.

CYP 6536 Principles and Methods of Psychological Consultation (3). An analysis of the basic psychological approaches underlying consultation, with special emphasis on the practical application of the processes of learning, cognition, and interpersonal relations to techniques of consulting with various 'target' agencies, individual clients, and other professionals in community settings. Prerequisite: Graduate standing at FIU or Permission of the instructor.

CYP 6766 The Psychology of Crosscultural Sensitization in a Multicultural Context (3). A series of weekly seminars to increase student sensitivity to working with clients from different cultural backgrounds. The objectives of the course are: (1) facilitating student awareness of cultural differences and their impact on social and human services delivery systems, (2) identifying the student's own personal cultural biases and values when interacting with culturally different persons, and (3) teaching students to develop culturally appropriate intervention skills.

CYP 6936 Current Issues in Community Psychology (3). An intensive analysis of contemporary theoretical, practical, and professional aspects of the field of Community Psychology. Topics discussed may lead
to the graduate project required of each student. Prerequisite: Admission to graduate study in psychology (other graduate students admitted by Permission of the instructor).

DEP 5056 Issues in Life-Span Developmental Psychology: Infancy through Old Age (3). A survey in depth of theories, issues, methods, and data in life-span developmental psychology through the entire age range. Prerequisites: DEP 3001 or DEP 4464, or their equivalents, are recommended.

DEP 5058 Biological Basis of Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: Proseminar courses.

DEP 5068 Applied Life-Span Developmental Psychology (3). This course is designed to acquaint the student with various applications in life-span developmental psychology. An overview of general issues and areas of application is offered, and specific applications are considered. Prerequisite: Graduate standing or Permission of the instructor.

DEP 5099 Proseminar in Infancy, Childhood, and Adolescence (3). Provides a comprehensive review of issues in perceptual, cognitive, social, emotional, and personality development from infancy through adolescence. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: Pro-seminars.

DEP 5118 Current Issues in Cognitive and Perceptual Development in Infancy (3). Provides an in-depth analysis of current issues, methods, research and theory of cognitive and perceptual development during the first year of life. Special emphasis on object and event perception, memory, and imitation. Prerequisites: Two courses in developmental psychology - any level recommended.

DEP 5185 Emotional Learning and its Reversal (3). Theoretical analyses and methodological issues in the study of emotional learning. Prerequisites: Graduate standing or Permission of the instructor.

DEP 5315 Proseminar in Parent-Child Relations (3). Provides an overview of key issues in parent-child relations including culture, socialization/genetics, fatherhood, timing, adoption, work, effects of children on parents, and parent training. Prerequisite: Graduate standing or Permission of the instructor.

DEP 5344 Psychology of Moral Development (3) An introduction to the literature on moral development. Review and discussion of recent developments in this area. Prerequisites: Graduate standing or Permission of the instructor.

DEP 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging including: biological changes, social processes, work, family, cognition, memory, personality, and psychopathology. Prerequisite: Graduate standing or Permission of the instructor.

DEP 5608 Theoretical Perspectives in Developmental Psychology (3). The focus of this course is on the major paradigms, models, and theories that have been influential in developmental psychology, both historically and contemporaneously. Meta-theoretical issues, paradigmatic influences, and specific theories are considered. Prerequisite: Graduate standing or Permission of the instructor.

DEP 5725 Seminar in Psychosocial Development (1). This course is designed to develop research skills and competencies in the area of psychosocial development. The emphasis of the course is on involvement in original research. Prerequisite: Permission of the instructor. Corequisite: Senior undergraduate or graduate standing.

DEP 5796 Methods of Developmental Research (3). Survey of issues and methods at all stages of life-span developmental research including theory, methods, design, and data reduction. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: Pro-seminars.

DEP 6117 Psychology of Caregiving (3). An advanced seminar focusing on one or more topics in depth and requiring literature reviews and research design. Topics may include timing of parenthood, adoption, and fatherhood.

DEP 6145 Psychology of Culture and Childhood (3). Extensive cross-cultural readings will serve as the focus for seminar discussion of cultural influences on children’s biological, motor, perceptual, cognitive, social, and personality development. Prerequisite: Graduate standing or Permission of the instructor.

DEP 6186 Social Development and Learning (3). Theories and facts of socio-emotional development, learning, and the acquisition and maintenance of social relationships in early life are examined critically. Prerequisites: DEP 3000 or DEP 3001 or equivalent.

DEP 6405 Psychology of Culture and Aging (3). An intensive examination of cultural influences on social and psychological aging processes including minority aging and involving seminar discussion and independent projects. Prerequisite: Graduate standing.

DEP 6466 Cognitive Processes in Aging (3). An intensive analysis of the background and recent developments in the area of age changes and age differences in intellectual functioning and learning memory processes. Prerequisite: DEP 5405.

DEP 6477 Psychology of Social Processes in Aging (3). An intensive analysis of the background and recent developments in theoretical models of social development, personality processes, and social processes in the older adult. Prerequisite: DEP 5405.

DEP 6645 Cognition and Language (3). Course covers the acquisition of cognitive processes and language, and their interdependence. Theory and research focusing on innate vs. learned aspects are discussed. Prerequisite: Graduate standing or Permission of the instructor.

DEP 6936 Current Literature in the Psychology of Infancy, Childhood, and Adolescence (3). This seminar will present and evaluate current research articles in the major journals in infant, child, and adolescence psychology. Prerequisite: Second year graduate standing.

DEP 6937 Current Literature in the Psychology of Adulthood and Aging (3). This seminar will present and evaluate current research articles in the major journals in the psychology of adulthood and aging. Prerequisite: Second year graduate standing.
DEP 6945 Life-span Developmental Psychology Practicum (3). This is an individually tailored program where students will work in an agency on a specific problem or project, culminating in a final written report. Prerequisite: Second year graduate standing.

DEP 7069 Seminar in Life-Span Cognitive Developmental (3). This graduate seminar will examine, through intensive reading and seminar discussion, the major theories, issues and empirical research on cognitive growth, change and decline from infancy through old age. Prerequisites: Two courses in Developmental Psychology (any level).

DEP 7096 Seminar in Psychology of Life-Span Social Development (3). This course includes a consideration of general issues and discussion of the application of life-span models to selected topics development. Prerequisite: Graduate standing or Permission of the instructor.

EAB 5098 Proseminar in the Experimental Analysis of Behavior (3). An advanced survey of the principles of respondent and operant conditioning and the bases of action in both social and non-social settings. Prerequisites: EAB 3002, EAB 4034, or equivalents.

EAB 5655 Advanced Methods of Behavior Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of respondent and operant conditioning, as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior therapy, relaxation therapy, behavior modification, biofeedback or similar behavioral approaches. Prerequisites: EAB 4794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or Permission of the instructor.

EAB 5797 Single-Case Research Methods (3). Intensive study of designs, strategies, and methods of single-case behavioral research. Prerequisites: Graduate standing or Permission of the instructor.

EAB 6707 Developmental Behavior Analysis (3). A survey of the application of the principles, methods, and applications of experimental behavior analysis to various life-span segments and developmental themes. Prerequisites: Proseminar in Behavioral Analysis or an undergraduate EAB course (EAB 3002, EAB 4034, or EAB 4794).

EDP 6935 Special Topics in Educational Psychology (VAR). An intensive analysis of a particular topic in educational psychology. Students must have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the College of Education.

EXP 5099 Proseminar in Experimental Psychology (3). Provides a comprehensive review of current research and theory in areas such as learning, memory, cognition, sensation, and perception. Prerequisite: Graduate standing or Permission of the instructor.

EXP 5406 Theories of Learning (3). The major theoretical systems of learning are covered, with the intent of determining how well each accounts for the phenomena of learning. Emphasis is placed on exploring the controversial issues raised by extant theories, and the experimental resolution of these theoretical controversies. The impact of theory on current thinking about learning is considered.

EXP 5508 Applied Cognitive Psychology (3). Covers the basic theories of cognitive psychology perception, attention, memory, learning, knowledge, with emphasis on application to real-world problems. Prerequisite: Graduate Standing.

EXP 5524 Cognitive Neuroscience (3). Investigation of the relation between mind and brain. Discuss literature from both patient studies and from the growing research in neuroimaging. Prerequisite: Graduate standing.

EXP 5527 Memory and Consciousness (3). The relation of memory and consciousness is explored with emphasis on issues of current research and theoretical work from both a cognitive and a neuropsychological perspective. Prerequisite: Graduate standing.

EXP 7747 Practicum in Causal Modeling (3). Introduction to linear structural relations models, emphasizing logical and practical problems in inferring causation for experimental and correlational research designs.

INP 5095 Proseminar in Industrial Psychology (3). Provides coverage of industrial and personnel psychology topics such as job analysis, personnel recruitment and selection, legal aspects of employment, performance appraisal, and training design and evaluation. Prerequisites: Acceptance to Master's or Ph.D. program in Psychology.

INP 5136 Psychology of Legal Consultation (3). Practice in basic non-clinical areas in which psychologists assist attorneys, including jury selection, surveys, and simulations. Prerequisite: SOP 6098 or equivalent.

INP 6216 Personnel Selection (3). Characteristics of Personnel Selection systems used in organizations. Validity generalization, utility, applicant reactions, and legal cases pertaining to employee selection. Prerequisites: Proseminar in I/O and graduate level statistics course.

INP 6235 Applied Psychology of Training and Development (3). In-depth study of principles of behavior and attitude change in organizations. Topics include organization analysis, program design and implementation, and evaluation of results. Prerequisites: Acceptance to M.S. or Ph.D. program in Psychology and SOP 5616.

INP 6611 Organizational Stress (3). This seminar examines conceptualizations, causes, consequences, and correlates, of stress, strain, and coping in the workplace.

INP 6940 Strategies and Methods of Applied Psychological Research (3). A practicum course in the psychological research strategies and the application of computers in the analyses of psychological data.

LIN 5701 Psychology of Language (3). An overview of the psychology of language and the psychological 'reality' of linguistic structure. Behavioral vs. cognitive views of psycholinguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

PCO 6206 Principles & Practices of Counseling & Psychotherapy (3). Examination of the principles & practices of counseling and psychotherapy derived chiefly from cognitive behavioral psychology. Prerequisite: Graduate standing.

PSB 6247 Biological Bases of Developmental Psychology (3). Advanced survey of biological bases of behavior. Topics include neuropsychology, functional organization and electrophysiological processes of the nervous system, and neural bases of learning and memory.

PSY 5216 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisites: Graduate standing or Permission of the instructor.

PSY 5246C Multivariate Analysis in Applied Psychological Research (3). Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotelling's T², MANOVA, principle component analysis, and factor analysis. Prerequisites: STA 3123 or equivalent; linear algebra recommended.

PSY 5605 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisite: Graduate standing or Permission of the instructor.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of the instructor.

PSY 5918 Supervised Research (VAR). Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

PSY 5939 Special Topics in Psychology (3). Special topics will be announced in advance.

PSY 6945 Teaching of Psychology (1). An introduction to the art of college teaching and specifically the art of teaching psychology. It is designed for first-year graduate students to provide instruction and support for teaching college classes. Prerequisite: Graduate standing.

PSY 6956 Psychology Field Experience (VAR). Placement of students in applied settings for the purpose of developing community-based experience in the application of theoretical and methodological approaches. Prerequisite: Graduate standing.

PSY 6971 Master's Thesis in Psychology (3-6). Supervised research on an original research project submitted in partial fulfillment of Master's degree requirement.

PSY 7940 Supervised Teaching in Psychology (1). Supervised teaching under the guidance of faculty advisor. May be repeated only three times. Prerequisite: Doctoral graduate study.

PSY 7980 Dissertation Research in Psychology (3-12). Supervised research on an original research project submitted in partial fulfillment of doctoral degree requirements. Prerequisite: Admission to candidacy.

SOP 5058 Proseminar in Social Psychology (3). An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisite: An introductory course in social psychology or its equivalent.

SOP 5081 Psychological Influences on Health and Illness (3). Provides a comprehensive review of theory, research, and interventions in the field of health psychology. Prerequisite: Graduate standing or permission of the instructor.

SOP 5316 Theories and Methods of Cross-Cultural Research (3). An intensive analysis of contemporary theories and methods of cross-cultural research in psychology including topics such as: culture as a research treatment, differential incidence of personality traits, the use of ethnographies, ‘etic’ vs. ‘emic’ distinction. Prerequisite: Graduate standing or Permission of the instructor.

SOP 5616 Social Psychology of Organizations (3). The application of concepts and theories from social psychology and sociology to the organizational setting. Emphasis would be on role theory, value formation and the operation of norms, including their development and enforcement. Formal and informal organization structure, power and authority concepts, and leadership theories will be covered. Communication processes and net-works and their effects on task accomplishment and satisfaction will be included.

SOP 6098 Proseminar in Legal Psychology (3). The application of psychological research methods and psychological knowledge to contemporary issues in criminal and civil litigations. Prerequisite: Graduate standing.

SOP 6441 Seminar in Social Cognition (3). Provides a critical review of current theory and research on social cognition and its relationship to stereotyping, persuasion, attribution, and social perception. Prerequisite: Graduate standing.

SOP 6752 Psychology of Juries (3). A review of psychological research on juries and jury decision-making. Emphasis is placed on the critical analysis of jury research and relevant case law. Prerequisite: Graduate standing.
Religious Studies

Nathan Katz, Professor and Chairperson
Christine Gudorf, Professor
Steven Heine, Professor
James Hutchinson, Associate Professor and Undergraduate Program Director
Erik Larson, Assistant Professor
Lesley Northup, Associate Professor and Graduate Program Director
Terry E. Rey, Assistant Professor
Oren B. Stier, Assistant Professor

Affiliated Faculty
Thomas A. Breslin
Bongkil Chung
Daniel A. Cohen
Paul Draper
Christopher J. Gray
Mitchell B. Hart
Marilyn Hoders-Salmon
Rosita Kenigsberg
David L. Lee
Mohiaddin Messbahi
Joseph F. Patrouch
Felix Pomeranz
Meri-Jane Rochelson

Master of Arts in Religious Studies

FIU's Master of Arts in Religious Studies is designed to give students maximum flexibility in pursuing their research interests, while providing a firm foundation in the general academic study of religion and the student's area of specialization.

The M.A. is a 36-credit hour program: 6 hours of core seminars, 12 hours of 'track' courses, 12 hours of electives, and 6 hours of thesis work.

Requirements for Admission

Application to the Master of Arts program in Religious Studies is made through FIU's Office of Admissions. The minimum requirements for admission include:

1. A baccalaureate degree from an accredited college or university;
2. Score of 1000 on the Graduate Record Examination (GRE) or an undergraduate GPA of 3.0;
3. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of at least 550;
4. Two letters of reference from former instructors or others who are able to evaluate the applicant's potential for graduate study (to the Department);
5. Substantial writing sample (to the Department).

Applications for admission are available from the FIU Office of Graduate Admissions and are evaluated by the Departmental Graduate Studies Committee.

Degree Requirements

1. Two core seminars. The first, the 'Seminar on Sacred Texts,' will be offered every fall. The second core seminar, 'Modern Analysis of Religion,' will be offered every spring.
2. A track of four related courses chosen in consultation with the Graduate Program Director.
3. 12 hours of elective graduate seminars, courses, and independent study, selected in consultation with the Graduate Director and Thesis Director.
4. A thesis or research project. Students may take either six hours of thesis advisement or a three credit research seminar with three credits of thesis advisement.

Course Descriptions

Definition of Prefixes
GRE-Ancient Greek; HBR-Biblical Hebrew, REL-Religion.

REL 5023 Religious Ritual (3). Examines the critical relationship of ritual, religious practice and belief, and culture, while introducing the principles and methods of ritual studies. Prerequisite: Graduate standing or permission of the instructor.

REL 5025 Myth and Religion (3). Investigates the role, function, and meaning of myth in religious experience and practice through an examination of specific myths, mythic patterns, and critical theories. Prerequisite: Graduate standing or permission of the instructor.

REL 5122 African-American Religion (3). Survey of development of African-American Religions with emphasis on North American experience during slavery, Jim Crow and contemporary eras. Prerequisite: Graduate standing.

REL 5125 Religion and Public Life (3). Examines the relationship of religion and government in the United States, with focus on the First Amendment and issues of separation of church and state. Prerequisite: Graduate standing.

REL 5130 North American Religion (3). Historical examination of religious groups and influences in North America, focusing on their contributions and cultural impact.

Prerequisites: Graduate standing or Permission of the instructor.

REL 5131 Sects, Cults, and New Religions (3). Explores and critically analyzes the multiplicity of new American religious movements and the unique combination of factors that have encouraged them. Prerequisites: Graduate standing or permission of the instructor.

REL 5145 Women and Religion (3). Examines the influence of religion on social construction of gender and the definition of woman's nature and role, with a focus on Western developments. Prerequisite: Graduate standing or permission of the instructor.

REL 5149 Religion, Violence, and Conflict (3). Is religion peaceful or violent? Theoretical analysis of the role of religion in violent, social and political conflicts, such as the Crusades, the Arab-Israeli conflict, and the Haitian Revolution. Prerequisite: Graduate standing.

REL 5160 Science and Religion (3). Surveys the interaction between science and religion from conflict models to integration; special attention to specific natural sciences including cosmology and biology. Prerequisite: Graduate standing or permission of the instructor.

REL 5181 Religion and Ethics (3). Investigation of methods, resources for ethics in world religions, and some examples of issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5183 Ethics and Environment (3). A study of cultural and religious sources of contemporary ethical attitudes and values about the environment. Also includes consequences of these for specific environmental issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5184 Sex, Ethics, and Religion (3). Religious treatment of sexual activity, desire and procreation in major religions, with special focus on contemporary scientific research on sexuality and spirituality. Prerequisite: Graduate standing.

REL 5192 Seminar in Mysticism (3). The issues of consciousness, language, and morality in mystical tradition of the east and west, including Kabbalah, Neoplatonism, Sufism, Yoga, Taoism, and Zen. Prerequisite: Graduate standing.
REL 5208 Studies of the Dead Sea Scrolls (3). Overview of the Dead Sea Scrolls; explores the new techniques being used in their study. Prerequisite: Graduate standing or permission of the instructor.

REL 5211 Bible I: The Hebrew Scriptures (3). Extensive reading in the Hebrew Scriptures; how the various texts of the Hebrew Scriptures came to be written, and how they can be interpreted - both within the context of faith communities and within the cultural contexts out of which the texts were written. Prerequisite: Graduate standing or permission of the instructor.

REL 5232 Hebrew Exegesis I (3). Provides a comprehensive survey of the fundamentals of the language of the Hebrew Bible designed to equip the student for the task of exegesis. Prerequisite: Graduate standing.

REL 5233 Hebrew Exegesis II (3). A continuation of Hebrew Exegesis I emphasizing the reading of select passages of the Hebrew Bible to develop skills in translation and interpretation. Prerequisite: REL 5232 and graduate standing.

REL 5240 Bible II: The New Testament (3). History, theology, and interpretation methods of the New Testament. Prerequisite: Graduate standing or permission of the instructor.

REL 5262 New Testament Greek Exegesis I (3). A detailed overview of the principles of Greek grammar that shows the student how to use Greek in the study of the New Testament. Prerequisite: Graduate standing.

REL 5263 New Testament Greek Exegesis II (3). Careful reading of selected passages of the New Testament and early Christian literature designed of selected to develop skills in translation and interpretation. Prerequisite: REL 5262 and graduate standing.

REL 5331 Religions of India (3). Topics include: religion in prehistoric and ancient India, classical Hindu texts and schismatic movements, medieval theism, the acculturation of extrinsic religions, Hindu-Muslim-Sikh syncretism, and the modern period. Prerequisite: Graduate standing or permission of the instructor.

REL 5346 Seminar on Buddhism (3). The central doctrines and rituals of the Buddhist tradition, including the views on causality, mindfulness, monasticism, salvation, purity, and ethics in the Theravada, Tantric, and Zen schools. Prerequisite: Graduate standing.

REL 5352 Religions of East Asia (3). The history, philosophy, and cultural impact of the major religious traditions of East Asia, including Confucianism, Taoism, Buddhism, Shinto, and syncretic folk religions. Prerequisite: Graduate standing.

REL 5372 African Spirituality (3). Intensive investigation of select forms of traditional spirituality in sub-Saharan Africa, including ritual, sacrifice, and spirit possession, and Africanized Christian and Islamic devotion. Prerequisite: Graduate standing.

REL 5384 Rasta, Voodoo, Santeria (3). Critical, sociological and phenomenological analysis of the history, beliefs, rituals, and social significance of Rastfarianism. Voodoo, and Santeria on the Caribbean and the United States. Prerequisite: Graduate standing.

REL 5461 Religion and Philosophy (3). Examines the use of philosophical reasoning to justify religious belief or its rejection. Such topics as natural theology, atheism and fideism will be examined. Prerequisite: Graduate standing or permission of the instructor.

REL 5488 Theology and Liberation Movements (3). Comparison of Latin American, feminist, and African American theologies of liberation, including methods, social analysis, social location, interlocutor, ecclesiology, theology, eschatology and use of scripture. Prerequisite: Graduate standing or permission of the instructor.

REL 5501 History of Christianity I (3). Christianity from its origins to the Middle Ages. Doctrinal and organizational development of the church and characteristic aspects of its spiritual life. Prerequisite: Graduate standing or permission of the instructor.

REL 5502 Saints, Witches and Missionaries (3). Survey of movements, reforms, divisions, and major ideas within institutional Christianity, 1400 to present.

REL 5515 History of Early Christianity (3). Origin and growth of Christianity from the first to the fifth century, and the adaptation of its message to the Greco-Roman world.

Prerequisites: Graduate standing or permission of the instructor.

REL 5565 Modern Catholicism (3). Theology and liturgical practice in the Roman Catholic Church from Trent (16th c) to the present, with primary and secondary sources. Prerequisite: Graduate standing or permission of the instructor.

REL 5600 Studies in Judaism (3). Historical overview of Jewish belief and practice, with special consideration of Jewish ritual life. Prerequisites: Graduate standing or permission of the instructor.

REL 5606 Rabbinic Judaism (3). The theology and ideologies of the 1700-year period in the history of Judaism known as Rabbinic Judaism. Prerequisite: Graduate standing or permission of the instructor.

REL 5613 Modernization of Judaism (3). Explores the ways in which religious beliefs and traditional concepts of Jewish self identity have changed as a result of emancipation and the participation of Jews in the modern Western world. Prerequisite: Graduate standing or permission of the instructor.

REL 5614 Ancient Judaism (3). The history, literature and characteristic institutions of Judaism from the Persian period to Amoramic times. Attention given to developments in the land of Israel and the diaspora. Prerequisite: Graduate standing or permission of the instructor.

REL 5615 Medieval Judaism (3). The works of major thinkers in Medieval Judaism, including Maimonides, Nahmanides, Halevi, Luzatto, and such topics as Jewish mysticism (Kabalah) and Hasidism. Prerequisite: Graduate standing or permission of the instructor.

REL 6013 Modern Analysis of Religion: Classic texts in Religious Studies (3). Critical reflection upon the nature and function of religion, as found in classics of the field. Prerequisite: Graduate standing or permission of the instructor.

REL 6322 Seminar in Western Religions (3). Similarities and differences in the three Western monotheistic religions of Judaism, Christianity and Islam during their historical development. Prerequisite: Graduate standing or permission of the instructor.
REL 6395 Seminar in Asian Religions (3). Asian religious traditions; texts, rituals, or artifacts. May be repeated with change in content.

REL 6442 Religion in the Contemporary World (3). Society and religion in processes of secularization and pluralism. Attention to religious interpretations of socio-cultural processes. Prerequisite: Graduate standing or permission of the instructor.

REL 6931 Pedagogy Seminar (1). Provide Teaching Assistants with pedagogical skills, such as lecture preparation, exam preparation and grading, advising and small group work. Prerequisite: Graduate standing.

REL 6935 Seminar in Sacred Texts (3). Sacred texts with a common theme from several religions. Problems of interpretation are a central concern. Prerequisite: Graduate standing or permission of the instructor.

REL 6940 Teaching Religious Studies (3). Assist the instructor in an introductory course and attend seminar meetings. Topics: 'faith' vs 'objectivity' in the classroom; student diversity; religious studies as a profession; designing an introductory course. Prerequisite: Graduate standing or permission of the instructor.

REL 6971 Thesis (1-6). For students working on the thesis for the M.A. in Religious Studies. Prerequisites: Graduate standing and Permission of the instructor.
Sociology and Anthropology

Walter Gillis Peacock, Professor, Chairperson, and Co-Director, Laboratory for Social Vulnerability, International Hurricane Center

G. Janice Allen-Kelsey, Assistant Professor

Jerald B. Brown, Associate Professor

Janet M. Chernela, Professor

Nadine Fernandez, Assistant Professor

Stephen M. Fjellman, Professor and Associate Dean, Honors College

Chris Girard, Associate Professor and Director, Graduate Program

Hugh Gladwin, Associate Professor and Director, Institute for Public Opinion Research

Guillermo J. Grenier, Associate Professor and Director, Center for Labor Research

Antonio Jorge, Professor

A. Douglas Kincaid, Associate Professor and Associate Director, LACC

Lilly M. Langer, Associate Professor, and Director, Center for Youth Development

Abraham D. Lavender, Professor

Barry B. Levine, Professor

Shearon A. Lowery, Associate Professor

Sarah Mahler, Associate Professor

Anthony P. Mainot, Professor

Kathleen Martin, Associate Professor

James A. Mau, Professor and Vice-Chancellor

Betty Hearn Morrow, Professor and Director, Laboratory for Social Vulnerability, International Hurricane Center

William T. Osborne, Associate Professor

Lisandro Perez, Associate Professor and Director, Cuban Research Institute

Jean M. Rahier, Associate Professor, African-New World Studies

Robin Sheriff, Assistant Professor

Alex Stepick, Professor and Director, Immigration and Ethnicity Institute

Richard Tardanico, Associate Professor

William T. Vickers, Professor

Lois West, Associate Professor

Affiliated Faculty

William W. Darrow, Professor, Public Health

James Rivers, Director, Metro-Center

Jay R. Turner, Professor, School of Policy Management, Director, Life Course and Health Research Center

Dennis Weidman, Adjunct Professor and Assistant to the Provost

The Comparative Sociology Graduate Program at Florida International University provides a unique opportunity to integrate the traditional strengths of sociology and anthropology by combining theory and empirical research with qualitative methods. The Program's faculty is especially noted for studying ethnic minorities, international development, gender, human ecology, labor, migration, theory, medical sociology and anthropology, and the sociology of disasters.

The Comparative Sociology Program provides professional training in social science research and theory for careers in higher education, government service, and the private sector. Requirements for the graduate program allow students to construct an individualized program that meets their specific interests. The graduate program is designed to facilitate the process of obtaining a doctorate in Comparative Sociology. Students may decide to obtain only a M.A. while working toward their Ph.D.

Admission Requirements

Each applicant to the Graduate Program in Comparative Sociology must complete a graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Records Exam (GRE) and TOEFL (if applicable) to the FIU's Office of Admissions. Each applicant should also send a separate letter of application to the director of the Comparative Sociology Graduate Program, along with copies of the above material. The letter of application should include a statement expressing the applicant's academic and professional objectives. Applicants are strongly encouraged to include examples of academic or other relevant professional work that may support their application. Applicants must request three letters of recommendation from individuals able to comment on their academic ability. The letters of recommendation should be sent directly to the Director of the Comparative Sociology Graduate Program.

The application file must be complete before the Comparative Sociology Graduate Program Committee will consider the applicant for admission. The deadline for receipt of application—including all supporting materials and letters of recommendation—is July 1st and April 1st for Teaching Assistantships. To be admitted into the Comparative Sociology Graduate Program a student must meet the University's graduate admission requirements which can be found in Florida International University's Graduate Catalog and the following minimum standards:

1. Applicants must have a baccalaureate degree from an accredited college or university. Students pursuing a Ph.D. and who do not have a Masters in Anthropology, Sociology, Comparative Sociology, or a closely related field which includes a written thesis must obtain the Masters in Comparative Sociology at FIU on their way to completing the requirements of the Ph.D.

2. Applicants must have an undergraduate grade point average (GPA) of 3.25 or higher and a combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE). Applicants must submit both grade transcripts and GRE scores for consideration. The student must also have a GPA of 3.5 on any previous graduate work.

3. Applicants should request that three letters of recommendation from individuals able to judge a student's academic potential be sent directly to the Director of the Comparative Sociology Graduate Program, Department of Sociology and Anthropology, Florida International University, Miami, FL 33199.

4. Applicants are encouraged to submit examples of written work and other supporting materials.

5. Applicants whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

While a baccalaureate major in sociology or anthropology is helpful, it is not required for admission to the program. However, newly admitted graduate students who have no prior course work in sociology, anthropology, or statistics may be required to take one or more undergraduate courses as prerequisites for graduate-level courses. This decision is based on the evaluation of the student's undergraduate record by the Graduate Program Committee.
Financial Aid
Each academic year a limited number of graduate students are hired as teaching assistants. Teaching assistantships are allocated on a competitive basis and typically pay a substantial portion of tuition expenses and provide a stipend. To be considered for an assistantship, the applicant must make such a request in writing to the Graduate Program Director. The awarding of teaching assistantships will be made by the Graduate Program Committee. Students receiving an assistantship are required to perform approximately 20 hours of teaching related duties per week and are required to participate in a one-hour seminar related to teaching.

The M.A. Degree Requirements
The M.A. in Comparative Sociology is designed to provide the student with a strong foundation in theory and research skills. The M.A. in Comparative Sociology requires a total of 36 semester hours of credits, including 15 credits in core courses, 15 credits in electives, and a master's thesis based upon the student's research (including 6 credits of enrollment in Thesis hours). A maximum of six credits of graduate course work may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses (36):
SYA 6125 Classical Social Theories 3
SYA 6126 Contemporary Social Theories 3
SYA 6305 Research Methods I 3
SYA 6306 Research Methods II 3
ANG 5496 Social Research and Analysis 3
Four electives in Sociology and Anthropology (must be at the 5000-level or higher) 12
One elective in another department (must be numbered 5000 or above and be approved by the graduate advisor) 3
SYA 6975 Thesis 6

Graduation Requirements
To remain in good standing and to qualify for graduation, students must maintain a graduate GPA of 3.0 or higher. All M.A. course requirements must be met and a thesis must be completed and accepted after defending before the Thesis Committee. All requirements for the M.A. in Comparative Sociology, including the successful defense of the thesis, must be completed within six years of enrollment in the graduate program.

The Ph.D. Degree Requirements
The Ph.D. program in Comparative Sociology incorporates and builds on the M.A. program. The Ph.D. program consists of 90 semester hours of course work that includes the 36 hours necessary to obtain the M.A. degree in comparative sociology at FIU. The 90 hours of course work are divided into three major areas: core courses, substantive area courses, and specialty/elective courses. The remaining course work will be made up of thesis/dissertation hours. In addition to course work, students are required to meet successfully the following: a thesis requirement; a written general examination; a post-thesis review, write and defend a dissertation proposal, and write and defend a dissertation.

Thesis Requirement
As part of the Doctoral Program in Comparative Sociology, students are expected to complete the requirements of a Masters Degree in Comparative Sociology, students are expected to complete the requirements of a Masters Degree in Comparative Sociology, including the writing and defense of a thesis, and the completion of the post-thesis review process. The process of writing and defending a thesis is an integral and essential part of the Ph.D. program. Students who have obtained a Masters and written a thesis in Anthropology, Sociology, Comparative Sociology, or related field may petition the Graduate Program Committee for exemption from the thesis requirement. After meeting the thesis requirement and completing masters related course work, a student must undergo a Post-Thesis Review and be approved to continue in the Ph.D. program.

Course Work
The Ph.D. curriculum in Comparative Sociology consists of a total of 90 semester hours. In addition to a minimum of 30 thesis and dissertation hours, students must successfully complete 60 hours of course work divided into three areas: Core Courses (21 hours); Substantive Area Courses (12 hours); and Specialty/Elective Courses (27 hours).

Core Courses
The foundation of the core curriculum includes five required courses: SYA 6125 (Classical Social Theories), SYA 6126 (Contemporary Social Theories), ANT 5496 (Social Research and Analysis), SYA 6305 (Research Methods I), and SYA 6306 (Research Methods II). These courses are designed to provide a foundation in general theory and methods. The methods courses will provide the student with a survey of qualitative and quantitative methods including computer-based statistical analysis. All students are expected to become thoroughly familiar with the use of computers for work in comparative sociology.

In addition, students are required to complete two additional core courses, one in methods and the other in theory, which are designed to provide them with an understanding of more advanced theory and methods, while meeting individual professional goals. Students may select the courses most consistent with their goals. However, they are encouraged to seek the advice of the Graduate Director and their advisor when making this decision.

Substantive Area Courses
Students will choose two substantive areas, from among those offered by the department. Each student will be required to take a minimum of two courses within each of their chosen areas. Current areas reflect the substantive specialties in which the faculty of Comparative Sociology have particular expertise: Cultural Analysis; Development and Social Change; Gender/Family; Medical; and Ethnicity, Race, and Migration. The required load of two courses in each substantive area is designed to provide added breadth to students' general knowledge.

Specialty/Elective Courses
In order to facilitate the creation of an individually tailored area of specialty, students may select 27 hours of graduate course work at Florida International University as specialty/elective courses. The specialty area course work should be developed by students with guidance from their major professor and research committee. At least two—but no more than four—elective courses must be from outside the department.

Ph.D. General Examination
After successfully completing the Post-Thesis Review and subsequent core and substantive course work, each student will take a written Ph.D. General Examination. This examination will be conducted in accordance with the FIU Graduate Policies and Procedures Manual and the Department's General Examination guidelines. The General Examination
will include questions in four areas: theory, methods, and the two substantive areas selected by the student. (See Comparative Sociology Graduate handbook for details).

Dissertation Proposal and Defense

After passing the General Examination, students will develop a dissertation proposal. Upon completing the proposal and elective/specialty course work, the student must orally defend the dissertation proposal before their Research Committee. The Proposal defense will consist of a comprehensive oral defense of the dissertation proposal and relevant literature as determined by the student’s research committee. The proposal defense serves as the candidacy examination for the Comparative Sociology Graduate Program. A copy of the approved proposal must be filed with the Dean of Graduate Studies at least one full semester prior to defense of the dissertation. The student will generally defend the proposal during the semester that required course work is completed. Upon passing the Dissertation defense, the student is admitted to candidacy status.

The Dissertation Defense

After successfully defending the dissertation proposal, students will conduct research and complete their dissertations. Upon completion of their dissertation and authorization of the research committee, the student will then defend their dissertations before their research committee.

Course Descriptions

Definition of Prefixes

ANG-Antropology Graduate; ANT-Antroplogy; SYA-Sociological Analysis; SYD-Sociology of Demography and Area Studies; SYG-Sociology, General; SYO-Social Organization; SYP-Social Processes. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ANG 5403 Ecological Anthropology (3). Theories of human adaptation, including environmental determinism, possibilism, cultural ecology, materialism, and evolutionary ecology. Credit for both ANT 3403 and ANT 5548 will not be granted. Prerequisite: Graduate standing or permission of the instructor. (SS)

ANG 5496 Social Research and Analysis (3). A graduate overview of the scientific methods used in intercultural studies. Includes the philosophical basis of science, research design, and hypothesis testing using both secondary and original data. Students will conduct a research project in this course. Prerequisite: Graduate status or permission of the instructor. (F)

ANG 5905 Directed Individual Study (1-20). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

ANG 5915 Directed Field Research (1-20). Permission of the instructor required.

ANG 6303 Comparative Feminisms (3). Course examines feminisms and feminist movements in a global context. Taking several geocultural areas as examples, the course analyzes the discourse of cultures, feminisms, and feminist movements. Prerequisites: One graduate level course on gender or permission of the instructor. (S)

ANG 6339 Seminar on Latin America (3). Analysis of Latin American cultures and classes using case studies. Students read a series of anthropological or sociological works and discuss them in a seminar format. Prerequisite: Graduate standing or Permission of the instructor. (F)

ANG 6497 Qualitative Research Methods (3). Qualitative research methods in anthropology and sociological. Includes participant-observation, field work, key informants and in-depth interviewing, visual techniques, ethical issues, and reflexivity. (F)

ANG 6932 Seminar in Human Ecology (3). Analysis of human ecology using case studies. Students read a series of works on human adaptations and discuss them in a seminar format. Prerequisite: ANT 3403 or ANT 6548 or equivalent.

ANT 5318 American Culture and Society (3). Anthropological analysis of the cultures and subcultures of the United States, focusing on the social, ethnic, and regional organizations and their corresponding value and symbolic systems. Prerequisite: Graduate standing or permission of the instructor. (F)

ANT 6302 Gender Identity in Comparative Perspective (3). Comparative examination of cultural and socio-economic factors defining gender identities and relations in western and non-western societies. Includes selected cross-cultural case studies. Prerequisites: Graduate Standing or Permission of the instructor. (S)

ANT 6319 The African Diaspora: Anthropological Perspectives (3). History and cultures of Africans outside of Africa, with a special emphasis on the African experience in the Americas. Topics covered include slavery, class, gender, ethnicity, and religion. Prerequisite: Graduate standing.

ANT 6469 Graduate Medical Anthropology (3). Concepts and methods in the field of medical anthropology. Importance of culture in governing the type and frequency of disease in a population, the way people explain and treat disease, and responses to the delivery of modern medicine. Prerequisite: Graduate standing. (S)

ANT 7491 Contemporary Theory in Social Anthropology (3). Graduate seminar examining current theoretical issues in social anthropology. Prerequisite: SYA 6125 and SYA 6126 or permission of the instructor.

SYA 5135 Sociology of Knowledge (3). The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior. (F)

SYA 5909 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

SYA 5941 Directed Field Research (VAR). Permission of the instructor required. (F,S,SS)

SYA 6125 Classical Social Theories (3). Classical social theories of the 19th and early 20th centuries. Includes the ideas of such thinkers as Spencer, Comte, Durkheim, Marx, Weber, Simmel, Pareto, Morgan, Tylor, and Boas. Prerequisite: Graduate standing or permission of the instructor. (F)

SYA 6126 Contemporary Social Theories (3). The major currents and trends in contemporary sociological theory. Emphasis on the application of theories to specific research issues and practices. Prerequisite: Graduate standing or permission of the instructor. (S)
SYA 6305 Research Methods I (3). The first in a two-course sequence on research methods in comparative sociology. Includes research design and hypothesis testing, participant observation, interviewing techniques and survey research. Prerequisite: Graduate standing or Permission of the instructor. (F)

SYA 6306 Research Methods II (3). The second in a two-course sequence on research methods in comparative sociology. Includes the quantitative analysis of sociological research data, and the preparation of written reports and articles. Prerequisite: SYA 6305 and STA 3111 or STA 6166 or equivalent. (S)

SYA 6307 Research Methods III (3). Advanced qualitative analysis of sociological research stressing problems in measurement, data collection and quality, and analysis techniques. Prerequisites: SYA 6306 and STA 3112 or STA 6167 or STA 5326 or Permission of the instructor.

SYA 6925 Graduate Colloquium in Comparative Sociology (1). Colloquiums presented by faculty, visiting scholars, and graduate students on topics of current research interest. Repeatable. Prerequisite: Graduate standing. (F,S)

SYA 6941 Internship in Applied Sociology (1-9). Practical application in a supervised setting outside of the classroom of knowledge acquired in the classroom. Hours may vary.

SYA 6943 South Florida Area Study (3). Current issues in South Florida studied through large-scale survey research conducted by class members. Provides experience in research techniques and the development and testing of theory. Prerequisites: SYD 6625 and SYA 6305. (S)

SYA 6959 Writing Research Proposals (3). Development of skills in writing research proposals. Prerequisite: Three completed semesters of graduate work.

SYA 6975 Thesis (1-6). Registration for students working on the thesis for the M.A. in Comparative Sociology or the M.A. in International Studies. Prerequisite: All other course work for the M.A. in Comparative Sociology or International Studies. (F,S,SS)

SYA 7651 Foundations of Social Theory Construction (3). Seminar examines assumptions of social theory. Topics include objectivity in the social sciences, social science concepts and explanations, reductionism, and the bases of social theory construction. (S)

SYA 7930 Special Topic in Comparative Sociological Research (3). A detailed exploration into particular research methodologies, approaches and techniques relevant to Comparative Sociology. Topic will vary depending upon the instructor. Course may be repeated. Prerequisites: SYA 6305 and SYA 6306 or Permission of the instructor.

SYA 7940 Practicum Supervised Teaching (1-9). Practical application in a supervised setting of knowledge acquired in the classroom. Hours may vary. (F,S,SS)

SYA 7941 Field Research (1-9). Research projects or certain aspects of research in a field situation carried out by one or more students under the direction of a faculty member. Topics vary. Usually selected on an individual basis. Hours may vary. (F,S,SS)

SYA 7967 Preparation: Preliminary Doctoral Exam (1-9). Preparation for the preliminary doctoral exam under the direction of a faculty member. Hours may vary. (F,S)

SYA 7979 Advanced Research (1-9). Research projects or certain aspects of research carried out by one or more students under the direction of a faculty member. Topics vary; selected on an individual basis. Hours may vary. (F,S,SS)

SYA 7980 Dissertation (1-9). Hours taken by students to work on the dissertation under the supervision of a major professor and the doctoral committee. Hours may vary. (F,S)

SYD 5045 Population and Society (3). The study of the processes that determine the size and composition of human populations. Emphasis on demographic transition theory and the antecedents and consequences of differential growth rates throughout the world. Prerequisite: Graduate standing or permission of the instructor.

SYD 6236 International Migration and Refugees (3). Comparative analysis of the causes, consequences, and policies concerning population movements across national borders. Includes review of various theories of labor migration. Students will conduct research on a migration or refugee topic. Prerequisite: Graduate standing or Permission of the instructor. (F)

SYD 6325 Seminar in the Comparative Sociology of Gender (3). The examination of women’s and men’s roles, status’, and life opportunities from a historical and comparative perspective. Current theoretical developments in the study of gender are emphasized. Prerequisite: Graduate standing or Permission of the instructor. (S)

SYD 6427 Seminar in Comparative Urban Issues (3). Current theoretical developments in the study of urbanism, including the evolution and growth of cities, spatial and social structures, migration, and the critical problems of social life in cities. Prerequisite: Graduate standing or Permission of the instructor. (F)

SYD 6615 Seminar in Comparative Analysis of Selected Regions (3). Comparative social analysis using studies from two or more world regions. Students read a series of works on issues such as bureaucracy, modernization, and development, and discuss them in a seminar format. Prerequisite: Graduate standing or Permission of the instructor. (S)

SYD 6616 Comparative Stratification Seminar (3). Comparative analysis of causes and consequences of contemporary inequality in an international context. Emphasizes theoretical and methodological approaches to comparative case studies. Prerequisites: Graduate standing or Permission of the instructor. (S)

SYD 6625 South Florida Sociocultural Systems (3). The sociological and anthropological analysis of South Florida. Presents tools for regional study including demography, cultural ecology, and ethnic group-centered symbolic systems. Prerequisite: Graduate standing or permission of the instructor. (F)

SYD 6655 Seminar on Social Change in Asia (3). An examination of social change in contemporary Asia, including the relationships between states, the changing political economies, and the role of social movements and cultural institutions in change. Prerequisite: Graduate standing or Permission of the instructor.

SYD 6705 Comparative Analysis of Ethnicity and Race (3). Consideration of major theories of ethnicity and race and analysis of selected ethnic groups in various world regions. Includes the study of race and ethnic issues in
Miami and the South Florida region. (S)

SYD 6715 Comparative Adolescent Cultures (3). Examines the adolescent cultures of different ethnic, class, and national groups from an anthropological and sociological perspective. The primary focus is on how adolescents construct their own social groups and what meaning they attribute to these constructions. Prerequisite: Graduate standing.

SYD 6816 Advanced Sociological Theories of Gender (3). Examines sociological theory as it deals with gender from a feminist perspective. Prerequisite: Graduate standing. (S)

SYD 6901 Special Topics in Sociology (3). An examination of specific themes and topics in sociology. The theme may vary from semester to semester. With a change in content, the course may be repeated. Prerequisite: SYA 6125 and SYA 6126 or permission of the instructor.

SYD 7903 Directed Readings (1-9). Readings under the direction of a faculty member focusing on one of the tracks in the Ph.D. program. Hours may vary. (F,S,SS)

SYG 6932 Special Topics in Disaster Studies (3). Case studies of major disasters used to explore topics such as impact of gender, class, ethnicity, and age on vulnerability, response, and outcome; effects of larger political and economic systems; and relationship to social change. May be repeated with change of topic.

SYO 6135 Families and Social Change (3). Comparative study of the family as an institution adapting to social and economic conditions. Cultural variation in marriage, parenthood and gender roles. Historical influences on the pluralistic American family. Credit for both SYO 4130 and SYO 6135 will not be granted. Prerequisite: Graduate standing or permission of the instructor. (F)

SYO 6306 Political Sociology (3). Examines social relations of power in groups, organizations, and national and global structures; also patterns of state formation, state-society relations, and sources of political change. Prerequisite: Graduate standing. (S)

SYO 6405 Graduate Medical Sociology (3). Examination of the social significance of health, illness, and medicine in the U.S. as compared to other societies. Includes disease type and distribution as well as a critique of health care professions, organizations, and policies. Prerequisite: Graduate standing. (F)

SYP 5447 Sociology of International Development (3). To introduce the basic concepts and questions of the field as applied to the international arena. To illustrate the common areas of social science analysis in dealing with questions of international development. (S)

SYP 6306 Comparative Social Movements (3). Comparative analysis of social movements and social change, including peasant movements, environmentalism, civil rights, feminism, and nationalism. Competing theories of social movements are examined. Prerequisite: Graduate standing or permission of the instructor. (F)

SYP 6734 Seminar: Ethnic Minority Aging in U.S. (3). Sociological perspective on aging among racial/ethnic minority groups in U.S. Includes social, demographic, and cultural influences on the status of minority elders in the areas of family and community.

SYP 6907 Seminar in Comparative Social Change (3). The cross-cultural and comparative analysis of contemporary social change, including processes of social action such as terrorism, reformism, revolution, and the use of electoral systems and democratic processes. Prerequisite: Graduate standing or permission of the instructor. (F)
Statistics

Jie Mi, Associate Professor and Chairperson
Carlos W. Brain, Associate Professor
Ling Chen, Associate Professor
Zhenmin Chen, Associate Professor
Gauri L. Ghai, Associate Professor
Ramon Gomez, Instructor
Sneh Gulati, Associate Professor
Ina Parks Howell, Lecturer
Jordan Neus, Assistant Professor
Laura Reisert, Instructor
Samuel S. Shapiro, Professor
Hassan Zahedi-Jasbi, Associate Professor
Jyoti N. Zalkkar, Associate Professor

Master of Science in Statistics

The Master of Science in Statistics at Florida International University is primarily an applied statistics program. It offers a balance of statistical theory, statistical methodology, and an area application concentration. The areas of concentration are Biostatistics/Environmetrics and Reliability Analysis/Quality Control. The program offers a thesis option and a non-thesis option. Regardless of the concentration or thesis option, the program requires a total of 36 credit-hours as follows: six core courses (18 hours), four courses in an area of concentration (12 hours), and either a thesis (6 hours) or two additional elective courses (6 hours) and a comprehensive examination.

Admission Requirements

To be admitted into the program, applicants must meet the university's graduate admission requirements (see Office of Admissions in this catalog) and the following departmental requirements:

1. Bachelor's degree in statistics, mathematics, or in a related field from an accredited university or college. A bachelor's degree in some other discipline is also acceptable provided the applicant has a suitable mathematics background.
2. A 3.0 or higher (on a 4-point scale) GPA in mathematics and statistics courses.
3. Three letters of recommendation from persons familiar with the applicant's academic qualifications.
4. Approval of the departmental graduate committee.

Core Courses: (18)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STA 6246</td>
<td>Data Analysis I</td>
</tr>
<tr>
<td>STA 6247</td>
<td>Data Analysis II</td>
</tr>
<tr>
<td>STA 6326</td>
<td>Mathematical Statistics I</td>
</tr>
<tr>
<td>STA 6327</td>
<td>Mathematical Statistics II</td>
</tr>
<tr>
<td>STA 5206</td>
<td>Design of Experiments</td>
</tr>
<tr>
<td>STA 6xxx</td>
<td>Linear Models</td>
</tr>
</tbody>
</table>

Concentration Area: (12)

Students interested in a concentration in Biostatistics/Environmetrics must select two courses from List A and two track-related electives. At least one of these electives must be from outside the department.

Students interested in a concentration in Reliability Analysis/Quality Control must select two courses from List B and two track-related electives. At least one of these electives must be from outside the department.

All electives must be approved by the graduate advisor.

List A: Biostatistics/Environmetrics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 6176</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>STA 6xxx</td>
<td>Environmental Statistics</td>
</tr>
<tr>
<td>STA 5826</td>
<td>Stochastic Processes</td>
</tr>
</tbody>
</table>

List B: Reliability Analysis/Quality Control

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 5676</td>
<td>Reliability Engineering</td>
</tr>
<tr>
<td>STA 5xxx</td>
<td>Advanced Quality Control</td>
</tr>
<tr>
<td>STA 5826</td>
<td>Stochastic Processes</td>
</tr>
</tbody>
</table>

List C: Elective Statistics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 5207</td>
<td>Topics in Design of Experiments</td>
</tr>
<tr>
<td>STA 5236</td>
<td>Regression Analysis</td>
</tr>
<tr>
<td>STA 5507</td>
<td>Nonparametric Methods</td>
</tr>
<tr>
<td>STA 5906</td>
<td>Independent Study</td>
</tr>
<tr>
<td>STA 6505</td>
<td>Analysis of Categorical Data</td>
</tr>
<tr>
<td>STA 6807</td>
<td>Queueing and Statistical Models</td>
</tr>
<tr>
<td>STA 6940</td>
<td>Supervised Statistical Consulting</td>
</tr>
<tr>
<td>STA 7707</td>
<td>Multivariate Methods I</td>
</tr>
<tr>
<td>STA 7708</td>
<td>Multivariate Methods II</td>
</tr>
</tbody>
</table>

Elective Courses from Outside of the Department:

Elective courses from outside of the department must be approved by the graduate advisor.

Thesis Option: (6)

Students opting to write a thesis must enroll in STA 6970, Thesis Research and STA 6971, Master's Thesis (6 credit-hours total).

Non-Thesis Option: (6)

Students who opt not to write a thesis must take two additional elective courses selected from List C or from outside of the department. These courses must be approved by the graduate advisor.

Graduation Requirements

1. Grade and GPA requirements: a) cumulative GPA of 3.0 or higher in all courses, b) a grade of 'B' or higher in each core course, and c) a grade of 'C' or higher in each concentration or elective course.
2. A candidate who opts to write a thesis must successfully defend the thesis orally and have the written thesis approved by his/her thesis committee.
3. A candidate who chooses the non-thesis option must take and pass a comprehensive examination.

Students must follow all regulations of the University’s Division of Graduate Studies.

Course Description

Definition of Prefixes

STA - Statistics; MAP - Mathematics/Applied.

MAP 5117 Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 2313, COP 2210 or CGS 2420, MAS 3105; and STA 4322 or STA 3164 or STA 3033.

STA 5105L SPSS Data Analysis Lab (1). Topics include: Entering data from various sources, data checking, descriptive statistics, graphing data, crosstabulations, t-tests, correlation and regression, ANOVA, and reliability. Prerequisite: A statistics course or concurrent enrollment in a statistics course, and graduate standing or permission of the instructor.

STA 5106 Intermediate Statistics I (3). Power, measures of assoc., measurement, ANOVA: one-way and factorial, between and within subjects expected mean squares, planned comparisons, priori contrasts, fixed, random, mixed models. This course may be of particular interest to behavioral sciences. Prerequisites: STA 3111 and graduate standing. (F)

STA 5107 Intermediate Statistics II (3). Correlation and regression both simple and multiple, general linear model, analysis of covariance, analysis of nominal data, analysis of categorical data. This course may be of particular
interest to behavioral sciences. Prerequisite: Permission of the instructor. (S)


STA 5206 Design of Experiments I (3). Design and analysis of completely randomized, randomized block, Latin square, factorial, nested and related experiments. Multiple comparisons. Credit for both STA 4202 and STA 5206 will not be granted. Prerequisite: STA 4322 or STA 3164 or STA 3033 or (STA 3163 and STA 4321).

STA 5207 Topics in Design of Experiments (3). This applied course in design of experiments covers topics such as split-plot design, confounding, fractional replication, incomplete block designs, and response surface designs. Prerequisite: STA 5206.

STA 5236 Regression Analysis (3). Simple, multiple and polynomial regression, analysis of residuals, model building and other related topics. Credit for both STA 4234 and STA 5236 will not be granted. Prerequisites: STA 3164 or STA 3123 or STA 3112, or STA 6167.

STA 5446-STa 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 2313.

STA 5507 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5507 will not be granted. Prerequisite: First course in statistics.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 4322.

STA 5800 Stochastic Processes for Engineers (3). Probability and conditional probability distributions of a random variable, bivariate probability distributions, multiple random variables, stationary processes, Poisson and normal processes. Prerequisites: STA 3033, MAC 2313, MAP 2302.

STA 5826 Stochastic Processes (3). This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queueing theory, renewal processes, birth and death processes, Poisson and Normal processes. Applications to system reliability analysis, behavioral science, and natural sciences will be stressed. Prerequisite: STA 5447.

STA 5906 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigation.

STA 6166 - STA 6167 Statistical Methods in Research I and II (3-3). For non-mathematical sciences graduate students. A non-calculus exposition of methods and applications of statistical techniques for the analysis of data. Statistical packages will be used. Prerequisite: Graduate standing. (F,S)

STA 6176 Biostatistics (3). Linear, multiple regression, correlation, analysis of variance, Nonparametric tests, Chi-square, clinical trials, mortality statistics and other statistical procedures applicable to medicine and epidemiology. Prerequisites: STA 3111 or STA 2122 or STA 6166.

STA 6246 Data Analysis I (3). Exploratory data analysis; testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 4322, or STA 6227.

STA 6247 Data Analysis II (3). Analysis of variance, regression analysis. Analysis of covariance, quality control, correlation, empirical distributions. Prerequisites: STA 6246 and MAS 3105.

STA 6326 Mathematical Statistics I (3). An introduction to the theories underlying statistical analysis. Basic concepts of probability theory, combinatorial analysis, random variables, and expectation. Prerequisite: MAC 2313.

STA 6327 Mathematical Statistics II (3). Estimation of parameters, tests of hypotheses, regression, non-parametric methods, analysis of variance, and multivariate concepts. Prerequisite: STA 6326.

STA 6505 Analysis of Categorical Data (3). Analysis of contingency tables, measures of association, logit and loglinear models. Prerequisites: STA 6167 or STA 5107 or STA 5236.

STA 6807 Queuing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of the instructor, MAC 2312 and either STA 3033 or STA 4321.

STA 6940 Supervised Statistical Consulting (3). Formulation of statistical problems from client information, consulting session management, interpersonal aspects of consulting, problem solving techniques. Prerequisites: Permission of the instructor, STA 4102, STA 6247, and STA 6327.

STA 7707 Multivariate Methods I (3). Multivariate normal, Wishart and Hotelling's distributions. Inferences for one and two mean vectors. Profile analysis. One- and two-way MANOVA. Multivariate multiple regression. Prerequisite: STA 3123 or STA 3112. (F)

Visual Arts

Carol Damian, Associate Professor and Chair  
Tori Arpad, Assistant Professor, Ceramics  
Pip Brant, Assistant Professor, Painting/Drawing  
Ralph F. Buckley, Professor, Sculpture  
William Burke, Professor, Ceramics  
James M. Cooper III, Professor, Painting  
Eduardo Del Valle, Professor, Photography  
Richard Duncan, Associate Professor, Drawing/Printmaking  
Mirta Gomez, Professor, Photography  
Elizabeth Hall, Assistant Professor, Time Arts  
Ellen Jacobs, Professor, Jewelry/Glass  
Clive King, Professor, Drawing and Director, Graduate Studies  
Kate Kretz, Assistant Professor, Painting/Drawing  
William Maguire, Professor, Photography  
Juan Martinez, Associate Professor, Art History  
Dahlia Morgan, Professor and Art Museum Director  
Manuel Torres, Professor, Art History  
Barbara Watts, Associate Professor, Art History

Master of Fine Arts in Visual Arts

The M.F.A. in Visual Arts is an intense, production-oriented program directed toward individual development. The curriculum is designed for maximum flexibility to accommodate both those seeking advanced training in a particular studio area and those whose interests may involve more media cross-over. Graduates of the program will be prepared for careers as professional artists.

Graduate Admission Requirements

1. Bachelor of Fine Arts, Bachelor of Arts, or an equivalent degree.
2. A grade point average of 3.0 or higher at the undergraduate level and/or a score of 1000 on the verbal and quantitative sections of the Graduate Record Examination (GRE).
3. A score of at least 550 on the Test of English as a Foreign Language (TOEFL) and a score of 50 on a Test of Spoken English (TSE) for international students.
4. Graduate Admission Application

Applicants must submit the following to the Graduate Secretary, Department of Visual Arts, University Park Campus, Miami, Florida 33199

1. Department copy of the Admission application submitted to the Admissions Office
2. A statement of intent (stating area of concentration and if seeking financial assistance).
3. Three letters of recommendation, preferably from previous instructors and/or person's familiar with applicants academic and artistic background.
4. 20 slides of recent work
5. SASE for return of slides

Deadline date for Application is February 15 for Fall admission.

Degree Requirements

The M.F.A. requires 60 semester hours of course work at the graduate level to be distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial Instruction in Studio Area</td>
<td>30</td>
</tr>
<tr>
<td>Concentration</td>
<td></td>
</tr>
<tr>
<td>Intro to Graduate Study in Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>Art History</td>
<td>12</td>
</tr>
<tr>
<td>Studio Art Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Written Account of Work</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Research for the written account of work</td>
<td></td>
</tr>
<tr>
<td>will be directed by a faculty committee</td>
<td></td>
</tr>
</tbody>
</table>
| composed of the candidates’s major professor, a member of the studio faculty, and an art historian. The Committee will be formed during the first semester of enrollment and will meet periodically to supervise the candidate's progress during the entire period of study. Upon completion of twenty hours of course work and prior to the completion of thirty hours, the candidate must submit his/her work to the faculty committee, which will determine the student's progress and capability for continued enrollment in the MFA program. This review will focus on issues such as growth of the student's work, the consistency of production at the graduate level, and the demonstrated ability to fulfill the expectations of a graduate degree. All of the student’s work completed by this time will be assembled and reviewed, and the student will be questioned about specific issues related to his/her work. Successful completion of this examination is prerequisite for continuing as a candidate for the degree.

In the last semester of enrollment, the candidate will present a graduate exhibition to be displayed in the Art Museum at F.I.U. or at an appropriate alternative space. The exhibition will be curated by the MFA candidate and the members of his/her committee. At the same time, the committee will conduct an oral examination with the candidate. This will take place in the exhibition space during the display of the candidate's graduate exhibition. It will focus on the exhibition and the development of the candidate's work. This examination must be completed successfully in order for the candidate to be awarded his/her degree.

Course Descriptions

Definition of Prefixes

ARH-Art History; ART-Art; PGY-Photography.

ARH 5796 Critical Studies in the Visual Arts (3). Introduction to the methods and concerns of recent art history. Discussion of students' work in context of the contemporary art world. Prerequisite: ARH 4450 and ARH 4470.

ARH 5897 Special Topics in Art History (3). Rotating special topics on the graduate level in art history. May be repeated with change of topic. Prerequisite: ARH 4450 and ARH 4470.

ARH 5907 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a semester before course is offered. May be repeated.

ARH 5913 Research (1-6). Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. Prerequisite: Permission of the instructor. May be repeated.

ART 5125C Ceramics (3). The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: ART 3111C, or permission of the instructor. May be repeated.

ART 5159C Jewelry and Metals (3). Advanced jewelry and metalwork for M.S. in Art Education students. May be repeated. Prerequisite: Jewelry & Metalwork IV or equivalent or permission of the instructor.
ART 5185C Glassblowing (3).
Advanced glassblowing for M.S. in Art Education students. May be repeated.
Prerequisite: Glassblowing IV or equivalent or permission of the instructor.

ART 5340C Drawing (3).
Advanced drawing for M.S. in Art Education students. May be repeated. Prerequisites: ART 4304C, or equivalent, or Permission of the instructor.

ART 5341C Figure Drawing (3).
Advanced figure drawing for M.S. in Art Education students. May be repeated. Prerequisites: ART 4333C, or equivalent, or Permission of the instructor.

ART 5xxxC Time Based Media (3).
Graduate work with art forms that are primarily dependent on the passage of time in their construction, documentation, and exhibition. This includes, but is not limited to, live and recorded performance art, public or mixed-media installation, video and computer generated art.

ART 5xxxC Issues of Contemporary Art Seminar (3).
Students will attend scheduled seminars led by appropriate faculty. Discussions will examine issues relating to art being currently produced. Exhibitions and publications will be referenced, and professional artists will participate.

ART 5406C Printmaking (3).
Advanced printmaking for M.S. in Art Education students. May be repeated. Prerequisites: ART 4404C, or equivalent or Permission of the instructor.

ART 5580C Painting (3).
Advanced painting for M.S. in Art Education students. May be repeated. Prerequisites: ART 4513 or equivalent, or Permission of the instructor.

ART 5683C Advanced Time Art (3).
Advanced course to refine students' skills in electronic and digital media production. Students are required to produce a multidisciplinary project. Prerequisite: ART 3681.

ART 5730C Sculpture (3).
Advanced sculpture for M.S. in Art Education students. May be repeated. Prerequisites: ART 4705C or equivalent, or Permission of the instructor.

ART 5768C Figure Sculpture (3).
Advanced Figure Sculpture for M.S. in Art Education students. May be repeated. Prerequisites: Figure Sculpture IV or Permission of the instructor.

ART 5907C Directed Study (VAR).
A group of students, with the approval of the Visual Arts Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least one semester before course is offered. May be repeated.

ART 5910C Research (1-6).
Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted. May be repeated.

ART 5930C Special Topics in Studio Art (3).
Rotating special topics in Studio Arts. May be repeated with change of content.

ART 5938C Studio Art Pedagogy (1).
Instruction in the principles and methods of teaching in the area of visual arts; specifically the application of these principles to the studio situation. Prerequisite: Graduate standing.

ART 5939C Studio Art Seminar (3).
Students will locate and discuss their own work within the context of the contemporary art world. Also, issues and practical concerns for the professional artist will be addressed, such as dealing with galleries, grant writing and business procedures. Prerequisite: Issues of Contemporary Art Seminar.

PGY 5116C Color Photography (3).
Advanced color photography for MS in Art Education students. (See PGY 4113). Prerequisite: PGY 4113C.

PGY 5425C Photography (3).
Advanced photography for M.S. in Art Education students. May be repeated. Prerequisite: PGY 4003C, or equivalent, or Permission of the instructor.
Certificate Programs

African-New World Studies Certificate Program

Carole Boyce Davies, Director (English)

Advisory/Coordinating Committee

Jean-Robert Cadely, (Modern Languages)
Steve Fjellman, (Sociology/Anthropology)
Chris Gray, (History)
Tommetro Hopkins, (English)
Hyacinth Johnson, (Dade County Public Schools)
Rosa Jones (Vice Provost, Academic Affairs)
Joyce Shaw Peterson, (History)
Jean Rahier, (Sociology/Anthropology)
Vicki Silvera (Library)
Linda Spears Bunton (Education)
Linda Strong-Leek, (English)
Clarence Taylor, (History)
S. Lee Woods, (Education)
Donna Weir-Soley, (English)

The African-New World Studies Certificate Program seeks to provide graduate-level instruction in the diverse field of Africana Studies. Specifically, the African-New World Studies Certificate Program seeks to:

1. Provide an excellent university education, while both challenging and stimulating students/participants to contribute to the development of their communities;
2. Generate new knowledge and research opportunities within the field of Africana Studies;
3. Serve the university's external community with special programming to meet educational needs;
4. Foster greater understanding of the global nature of African peoples.

General Requirements (18)

Two courses (six credit hours) from the following list:

AMH 5935 Topics in American History 3
HIS 5930 Special Topics 3
ANT 6319 The African Diaspora: Anthropological Perspectives 3
LIN 6937 Linguistics Seminar 3
LIT 5487 Texts and Culture 3
PHI 5934 Special Topics 3
AHF 5905 Readings in African History 3

Electives

The four remaining courses (12 credit hours) may be drawn from a variety of elective courses. The following courses represent examples of elective courses appropriate for the completion of the certificate program. Students should consult with advisors since new courses are frequently added, special topics courses sometimes concern African/diaspora topics, and some courses have prerequisites and enrollment stipulations.

College of Arts and Sciences

ECP 6605 Urban and Regional Analysis 3
ECP 7606 Urban and Regional Economics 3
ECS 6436 Economics of Caribbean Migration 3
ECS 7435 Economics of the Caribbean 3
INR 5087 Ethnicity and the Politics of Development 3
LIN 6572 Structure of a Non-Indo-European Language 3
POS 5932 Topics in Urban Politics 3
POS 6146 Seminar in Urban Politics 3
CYP 6766 The Psychology of Cross-Cultural Sensitization in a Multicultural Context 3
DEP 6145 Psychology of Culture and Childhood 3
DEP 6465 Psychology of Culture and Aging 3
SOP 5316 Theories and Methods of Cross-Cultural Research 3
SPN 5536 Afro-Cuban Culture 3
SPW 5515 Advanced Studies in Hispanic Folklore 3
ANT 6319 The African Diaspora: Anthropological Perspectives 3
SYA 6943 South Florida Area Study 3
SYD 6625 South Florida Sociocultural Systems 3
SYD 6427 Seminar in Comparative Urban Issues 3
SYD 6705 Comparative Analysis of Ethnicity and Race 3

College of Education

EDE 5267 Education of the Child in Urban Society 3
EDE 5941 Practicum I in Urban Education 3
EDE 5942 Practicum II in Urban Education 3
EDF 5851 Socio/Cultural Conflict in Educational Change 3

EDF 5880 Intercultural Education: National and International Perspectives 3
MHS 6428 Cross Cultural Counseling 3

Certificate in Geographic Information Systems

Jennifer Fu, Director, (Library GIS Center)

Coordinating Committee

Michael McClain, (Biological Sciences/Environmental Studies)
Dean Whitman, (Geology)
Fang Zhao, (Civil Engineering)

The primary goal of the Certificate in Geographic Information Systems (GIS) is to provide students with an interdisciplinary concentration in GIS. The Programs will be composed of primarily graduate level courses in the areas of Geographic Information Systems, computer and/or database programming, and statistics analysis. Subject areas to which GIS is relevant can range from Civil Engineering, Geology, International Relations, Environmental Studies, Economics/MBA, Urban Planning, Biology, Public Health, etc.

Prescribed Courses and Other Requirements

The certificate program will require 18 credit-hours (6 courses) distributed as follows:

Required Courses: (9)
EVR 5xxx Introduction to GIS and Data Analysis 3
GLY 5774 GIS and Spatial Analysis for Earth Scientists 3
GLY 5754 Applied Remote Sensing in the Earth Sciences 3

Electives: (9)
CGN 5320 GIS Applications for Civil and Environmental Engineering 3
CGN 6930 Applied GIS Projects 3
CGN 6325 Advanced GIS for Civil and Environmental Engineering 3

or

Computer/database Programming Course 3 or

Any 3 graduate credits in the areas of Civil Engineering, Geology, International Relations, Environmental Studies, Economics/MBA, Urban Planning, Biology, Public Health, etc.

Notes: The GIS courses listed under Electives, can vary from semester to
semester as new GIS courses develop. New courses possibly cover the areas of “Advanced GIS and Database Management,” and “Web-based GIS applications.” Students have to take at least one (1) graduate level GIS course (3 credit-hours) out of the 3 elective (9 credit-hours) courses.

Geographic Information Systems (GIS) is a fast developing technology that can be applied to many areas of natural and social sciences, such as Civil Engineering, Geology, International Relations, Environmental Studies, Economics/MBA, Urban Planning, Biology, Public Health, etc. There is an increasing demand for GIS specialists in the job market as a result of vast development of locational/geographic database management programs. Furthermore, there is an existing faculty body from various academic departments engaged in GIS teaching and research at FIU.

For more information on the Certificate in Geographic Information Systems contact the Director, Jennifer Fu, at the GIS lab in GL 275D or call (305) 348-3138 or email fujen@fiu.edu

Latin American and Caribbean Studies
Certificate Program
Theodore R. Young, Director and Assistant Professor, Modern Languages

LACC’s programs at Florida International University lie at the heart of the University’s commitment to international studies. Over the last decade, LACC has become one of the strongest Latin American and Caribbean studies programs in the United States, joining a small cadre of nationally distinguished programs at major research universities.

LACC is an academic center and a think tank, promoting more than 200 area studies courses per year through its certificate programs and 16 participating departments. Through a multidisciplinary approach to Latin America and the Caribbean, LACC carries out a trifold institutional mission of rigorous instruction, cutting-edge research, and public education.

Associated faculty members are internationally recognized for their original research, particularly on Central America and the Caribbean. Their contributions are consistently published in peer review journals. Since 1979 the number of LACC faculty has increased by 300%. Another 50% increase is anticipated in the next decade.

The certificate program is designed to supplement the degree programs of full-time graduate students, and serve the interests of working professionals seeking a broader understanding of Latin American and Caribbean issues.

Students registered in the certificate program receive regular mailings announcing course offerings, seminars, foreign study opportunities, and other special events. They also receive LACC News, a newsletter reporting on people and activities concerning Latin American and Caribbean affairs at FIU.

An important component of the Latin American and Caribbean studies program at FIU is the library. The Latin American and Caribbean collection of the FIU library system has surpassed 35,000 volumes, excluding government documents. Regionally, the collection is strongest in works on Cuba and Central America, with substantial strength in Caribbean countries as well. LACC itself receives about 150 publications, mainly consisting of newsletters and research report series.

Students interested in the certificate program should contact the graduate student advisor at LACC. Call (305) 348-2894 for an appointment.

Certificate Requirements

The certificate program requires a total of 15 credit hours of course work with a grade of “B” or higher. Courses should come from the certificate program listing below or be otherwise approved by the certificate program faculty advisor. Specific requirements follow:

1. Either: LAH 5935 Topics in Latin American History: Formation of Latin America, or LAH 5935 Topics in Latin American History: The National Period. This requirement may be waived for history majors or others who have taken an equivalent course. These students must choose an approved second course outside their major.

2. Nine hours in the student’s major department, with a grade of “B” or higher. Three of these hours must be for independent study or thesis research on Latin America and/or the Caribbean.

3. Three hours outside the student’s major.

4. Reading competence at the level of graduate research in Spanish, Portuguese, or French, demonstrated by a proficiency exam administered by the Department of Modern Languages.

The following courses fulfill certificate requirements. These courses should be understood as a partial list; students should consult with certificate program advisors about the current course offerings.

Economics
ECS 5027 Economic Development of Emerging Nations
ECS 5079 World Economy

ECS 7015 Development Economics: Theory

ECS 7026 Development Economics: Planning and Policy

ECS 7405 Economics of Latin America

ECS 7435 Economics of the Caribbean

ECS 7445 Economics of Central America

History
LAH 5905 Readings in Latin American History

LAH 6915 Research in Latin American History

LAH 5935 Topics in Latin American History

LAH 6906 Advanced Readings in Latin American History

International Relations
INR 5087 Ethnicity and the Politics of Development

GEO 5415 Topics in Social Geography*

INR 5607 International Relations and Development

INR 5935 Topics in International Relations*

INR 6605 Contemporary International System

INR 6065 Environmental and Development

Modern Languages
SPN 5525 Spanish American Culture

SPW 5237 Traditional Spanish American Novel

SPW 5286 Contemporary Spanish American Novel

SPW 5358 Graduate Seminar: Borges

SPW 5359 Poetry of Pablo Neruda

SPW 5475 19th Century Latin American Literature

SPW 5387 Women and Literature

SPW 5575 Spanish American Modernism

SPW 5756 Mexico in Poetry
Political Science
CPO 5036 Politics of Development
CPO 5935 Topics in Comparative Politics*
CPO 5091 Seminar in Comparative Politics*
CPO 6307 Seminar on South American Politics
CPO 6376 Seminar in Central American Politics
INR 6936 Seminar in Inter-American Politics

Sociology/Anthropology
ANT 5548 Ecological Anthropology
ANT 6931 Seminar on Latin America
SYD 6325 Seminar in Comparative Sociology of Gender
SYD 6705 Comparative Analysis of Race and Ethnicity
SYP 6907 Seminar in Comparative Social Change
SYP 5447 Sociology of International Development
SYP 6306 Comparative Social Movements
SYD 6236 International Migration and Refugees
SYD 6427 Seminar in Comparative Urban Issues

*When course includes enough Latin American and Caribbean content to justify inclusion in certificate program. Student should obtain advanced written approval from advisor.
### College of Arts and Sciences

**Dean**  
Arthur W. Herriott

**Associate Deans**  
- Curriculum and Advisement: Fred Bouma  
- College Relations: Gisela Casines  
- Research: Kelsey Downum  
- Budget and Planning: Ivelaw Griffith  
- North Campus: Joyce Peterson  
- Faculty and Graduate Studies: Mark Szuchman  
- Assistant Dean, Advancement: Lee Theisen

**Director, School of Computer Science**  
Jainendra Navlakha

**Director, School of Music**  
Fredrick Kaufman

### Chairpersons and Program Directors:

#### African-New World Studies
- **Chairperson:** Clarence Taylor  
  *(Acting)*

#### Biological Sciences
- **Chairperson:** John Makemson  
  **Additional:** Kenneth Furton

#### Chemistry
- **Chairperson:** Fanagis Liossatos

#### Economics
- **Chairperson:** Donald Watson

#### Environmental Studies
- **Chairperson:** David Bray  
  **Additional:** Gautam Sen

#### Geology
- **Chairperson:** William Walker III

#### History
- **Chairperson:** Kenneth Rogerson

#### Humanities
- **Chairperson:** Damian Fernandez

#### International Relations
- **Chairperson:** Eduardo Gamarra  
  **Additional:** Janat Parker  
  **Additional:** Enrique Villamor

#### Latin American and Caribbean Studies
- **Chairperson:** Isabel Castellanos  
  **Additional:** Paul Warren  
  **Additional:** Stephan Mintz  
  **Additional:** Nicol Rae

#### Modern Languages
- **Chairperson:** Marvin Dunn  
  **Additional:** Nathan Katz

#### Philosophy
- **Chairperson:** Walter Peacock  
  **Additional:** Jie Mi  
  **Additional:** Leroy Clark  
  **Additional:** Carol Damian

#### Political Science
- **Chairperson:** Meri-Jane Rochelson  
  *(Acting)*

#### Psychology
- **Chairperson:** Ajitabh, Kaushal, Ph.D.  
  *(Massachusetts Institute of Technology)*  
  **Additional:** Assistant Professor, Mathematics

#### Religious Studies
- **Chairperson:** Akache, Walid, M.S.  
  *(University of Miami)*  
  **Additional:** Instructor, School of Computer Science

#### Sociology and Anthropology
- **Chairperson:** Aladro, Gerardo, Ph.D.  
  *(Pennsylvania State University)*  
  **Additional:** Associate Professor, Mathematics

#### Statistics
- **Chairperson:** Allen, James, Ph.D.  
  *(University of Wisconsin-Madison)*  
  **Additional:** Assistant Professor, Biological Sciences

#### Theatre and Dance
- **Chairperson:** Allen, G. Janice, Ph.D.  
  *(University of Florida)*  
  **Additional:** Assistant Professor, Sociology/Anthropology

#### Visual Arts
- **Chairperson:** Anbarci, Nejat, Ph.D.  
  *(The University of Iowa)*  
  **Additional:** Associate Professor, Economics

#### Women’s Studies
- **Chairperson:** Apanius, Victor, Ph.D.  
  *(University of Pennsylvania)*  
  **Additional:** Assistant Professor, Biological Sciences

#### College of Arts and Sciences Faculty:

- **Associate Professor, Mathematics:** Arnold, St. George Tucker, Jr., Ph.D.  
  *(Stanford University)*  
  **Additional:** Associate Professor, English

- **Assistant Professor, Visual Arts:** Arpad, Tori, M.F.A.  
  *(University of Arizona)*

- **Assistant Professor, School of Computer Science:** Atti, Paul C., Ph.D.  
  *(University of Texas-Austin)*  
  **Additional:** Assistant Professor, School of Computer Science

- **Associate Professor, School of Music:** Augenblick, John, D.M.A.  
  *(University of Miami)*  
  **Additional:** Associate Professor, School of Music

- **Associate Professor, English:** Bahrick, Lorraine, Ph.D.  
  *(Cornell University)*  
  **Additional:** Professor, Psychology

- **Associate Professor, Washington:** Baker, Joan L., Ph.D.  
  *(University of Washington)*  
  **Additional:** Associate Professor, English

- **Assistant Professor, Modern Languages:** Baldor, Aurelio, M.A.  
  *(Florida International University)*  
  **Additional:** Instructor, Modern Languages

- **Associate Professor, School of Computer Science:** Barrett, Lynn, M.F.A.  
  *(University of North Carolina-Greensboro)*  
  **Additional:** Associate Professor, English

- **Professor, School of Computer Science:** Barton, David, Ph.D.  
  *(University of Cambridge)*  
  **Additional:** Associate Professor, Chemistry

- **Professor, School of Computer Science:** Bazzi, Rida, Ph.D.  
  *(Georgia Institute of Technology)*  
  **Additional:** Assistant Professor, School of Computer Science

- **Associate Professor, Modern Languages:** Beccal, Pascale, Ph.D.  
  *(University of California-Davis)*  
  **Additional:** Associate Professor, Modern Languages

- **Associate Professor, Chemistry:** Becker, David, Ph.D.  
  *(Massachusetts Institute of Technology)*  
  **Additional:** Associate Professor, Chemistry

- **Associate Professor, Philosophy:** Beer, Michelle, Ph.D.  
  *(University of Pittsburgh)*  
  **Additional:** Associate Professor, Philosophy

- **Professor, English:** Bennett, Bradley C., Ph.D.  
  *(University of North Carolina-Chapel Hill)*  
  **Additional:** Associate Professor, Biological Sciences and Environmental Studies

- **Professor, Theatre and Dance:** Bergman, Elizabeth, M.A.  
  *(University of Michigan)*  
  **Additional:** Associate Professor, Theatre and Dance and Director, Dance Program

- **Professor, English:** Berk, Lynn, Ph.D.  
  *(Purdue University)*  
  **Additional:** Professor, English

- **Professor, School of Computer Science:** Berk, Toby, Ph.D.  
  *(Purdue University)*  
  **Additional:** Professor, School of Computer Science

- **Associate Professor, Environmental Studies:** Bhat, Mahadev, Ph.D.  
  *(University of Tennessee-Knoxville)*  
  **Additional:** Associate Professor, Biological Sciences

- **Associate Professor, Biological Sciences:** Bissell, Lisa, Ph.D.  
  *(Florida State University)*  
  **Additional:** Associate Professor, Biological Sciences

- **Associate Professor, Physics:** Boeglin, Werner, Ph.D.  
  *(University of Basle, Switzerland)*  
  **Additional:** Associate Professor, Physics

- **Professor, West Indies, Jamaica:** Bone, Richard, Ph.D.  
  *(University of West Indies, Jamaica)*  
  **Additional:** Professor, Physics

- **Professor, International Relations:** Boodhoo, Ken, Ph.D.  
  *(University of the West Indies, Jamaica)*  
  **Additional:** Associate Professor, International Relations

- **Associate Dean, College of Arts and Sciences:** Bouma, Frederick, Ph.D.  
  *(University of Illinois)*  
  **Additional:** Associate Dean, College of Arts and Sciences

- **Instructor, English:** Bowe, Gregory, M.A.  
  *(University of New Hampshire)*  
  **Additional:** Professor, English

- **Professor:** Boyce Davies, Carole, Ph.D.  
  *(University of Ibadan, Nigeria)*  
  **Additional:** Professor, English

- **Assistant Professor, Economics:** Boyd III, John H., Ph.D.  
  *(Indiana University)*  
  **Additional:** Assistant Professor, Economics

- **Associate Professor, Statistics:** Brain, Carlos W., Ph.D.  
  *(West Virginia University)*  
  **Additional:** Associate Professor, Statistics

- **Professor and Chairperson, Environmental Studies:** Bray, David, Ph.D.  
  *(Brown University)*  
  **Additional:** Professor and Chairperson, Environmental Studies

- **Associate Professor:** Breslin, Thomas A., Ph.D.  
  *(University of Virginia)*  
  **Additional:** Associate Professor, International Relations and Vice President, Research and Graduate Studies

- **Associate Professor, Theatre and Dance:** Brooke, Lee, B.S.  
  *(The Juilliard School)*  
  **Additional:** Associate Professor, Theatre and Dance

- **Professor, Biological Sciences:** Brown, Christopher, Ph.D.  
  *(University of Delaware)*  
  **Additional:** Professor, Biological Sciences

- **Associate Professor, Sociology/Anthropology:** Brown, Jerry, Ph.D.  
  *(Cornell University)*  
  **Additional:** Associate Professor, Sociology/Anthropology
Brown, Joann, M.A. (University of Miami), Instructor, Theatre and Dance-Speech Communication Program
Buckley, Ralph, M.F.A. (Maryland Institute), Professor, Visual Arts
Burke, William, M.F.A. (State University of New York at New Paltz), Professor, Visual Arts
Burns, Kristine, Ph.D. (Ball State University), Assistant Professor, School of Music
Cadely, Jean-Robert, Ph.D. (Universite du Quebec-Montreal), Assistant Professor, Modern Languages
Cai, Yong, Ph.D. (Nankai University, China), Assistant Professor, Chemistry
Camayd-Freixas, Erik, Ph.D. (Harvard University), Assistant Professor, Modern Languages
Campbell, Colton, Ph.D. (University of California-Santa Barbara), Assistant Professor, Political Science
Campbell, Gary, M.A. (University of Miami), Assistant Professor, School of Music
Caputo, Nina, Ph.D. (University of California-Berkeley), Instructor, History
Carvajal, Manuel, Ph.D. (University of Florida), Professor, Economics
Casines, Gisela, Ph.D. (University of Florida), Associate Professor, English and Associate Dean, College of Arts and Sciences
Castellanos, Isabel, Ph.D. (Georgetown University), Professor and Chairperson, Modern Languages
Castells, Ricardo, Ph.D. (Duke University), Associate Professor, Modern Languages
Chen, Ivan, B.M. (The Curtis Institute of Music), The Miami String Quartet-in-Residence, School of Music
Chan, Virginia, Ph.D. (University of Minnesota), Assistant Professor, Political Science
Chatfield, David, Ph.D. (University of Minnesota), Assistant Professor, Chemistry
Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences
Chen, Chung-Min, Ph.D. (University of Maryland), Assistant Professor, School of Computer Science
Chen, Ling, Ph.D. (American University), Associate Professor, Statistics
Chen, Shu-Ching, Ph.D., (Purdue University), Assistant Professor, School of Computer Science
Chen, Z. Sherman, Ph.D. (University of Texas-Dallas), Associate Professor, Statistics
Chernela, Janet, Ph.D. (Columbia University), Professor, Sociology/Anthropology
Childers, Daniel, Ph.D. (Louisiana State University), Associate Professor, Biological Sciences and Southeast Environmental Research Center
Chisholm, Richard, Ph.D. (Northwestern University), Assistant Professor, Economics
Chiu, Wan-Ling, Ph.D. (Michigan State University), Assistant Research Scientist, Biological Sciences
Chung, Bongkil, Ph.D. (Michigan State University), Professor, Philosophy
Church, Phillip, M.F.A. (University of California-Irvine), Associate Professor, Theatre and Dance
Clark, Alice, Ph.D. (University of Michigan), Assistant Professor, Environmental Studies
Clark, John, Ph.D. (University of Virginia), Associate Professor, International Relations
Clark, Leroy, Ph.D. (Kent State University), Professor and Chairperson, Theatre and Dance
Clem, Ralph, Ph.D. (Columbia University), Professor, International Relations and Director, Center for Transnational and Comparative Studies
Clement, Bradford, Ph.D. (Columbia University), Professor, Geology
Cohen, Daniel, Ph.D. (Brandeis University), Associate Professor, History
Collins, Timothy, Ph.D. (Yale University), Assistant Professor, Biological Sciences
Condon, Keith, Ph.D. (University of Illinois-Chicago), Lecturer, Biological Sciences
Cook, N. David, Ph.D. (University of Texas-Austin), Professor, History
Copeland, Emily, Ph.D. (Flacher School of Law and Diplomacy, Tufts University), Assistant Professor, International Relations
Cornejo, Abel, M.F.A., (Brooklyn College, City University of New York), Instructor, Theatre and Dance
Correll, Helen, Ph.D. (Duke University), Research Scientist, Biological Sciences
Couper, James, M.A. (Florida State University), Professor, Visual Arts
Cox, Ronald W., Ph.D. (University of Wisconsin-Madison), Associate Professor, Political Science
Craumer, Peter, Ph.D. (Columbia University), Assistant Professor, International Relations
Crosby, James, Ph.D. (Yale University), Professor Emeritus, Modern Languages
Cuervo, Leon, Ph.D. (University of Maryland), Professor, Biological Sciences
Cuéllar, John, Ph.D. (State University of New York at Buffalo), Instructor, School of Music
Cutler, Brian, Ph.D. (University of Wisconsin-Madison), Professor, Psychology and Associate Vice President, Academic Affairs
Damian, Carol Ph.D. (University of Miami), Associate Professor and Chairperson, Visual Arts
Darci, Yesim, Ph.D. (University of Missouri), Associate Professor, Physics
Daruwala, Maneck, Ph.D. (University of Rochester), Associate Professor, English
Davidovici, Robert, Postgraduate Diploma in Violin (The Juilliard School), Professor, School of Music
Debrix, Francois, Ph.D. (Purdue University), Assistant Professor, International Relations
de Alonso, Irma, Ph.D. (University of York, England), Professor, Economics
de la Cuesta, Leonel A., Ph.D. (The Johns Hopkins University), Professor, Modern Languages
del Valle, Eduardo, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts
Delgado, Milagros, Ph.D. (University of Miami), Lecturer, Chemistry
Demos, Marian, Ph.D. (Harvard University), Associate Professor, Humanities and Modern Languages
Deng, Yi, Ph.D. (University of Pittsburgh), Associate Professor, School of Computer Science
Deng, Yiwei, Ph.D. (Swiss Federal Institute), Assistant Professor, Chemistry
Donnelly, Maureen, Ph.D. (University of Miami), Associate Professor, Biological Sciences
Dougherty, Keith, Ph.D. (University of Maryland-College Park), Assistant Professor, Political Science
Downey, Timothy, M.S. (State University of New York at Albany), Instructor, School of Computer Science
Downum, Kelsey, Ph.D. (University of British Columbia), Professor, Biological Sciences and Associate Dean, College of Arts and Sciences

Drahic, Teodors, Ph.D., (Michigan State University), Assistant Professor, Mathematics

Draper, Grenville, Ph.D. (University of the West Indies), Professor, Geology

Draper, Paul, Ph.D. (University of California-Irvine), Associate Professor, Philosophy and Religious Studies

Dufresne, John, M.F.A. (University of Arkansas), Professor, English

Duhamel, Denise, M.F.A. (Sarah Lawrence College), Assistant Professor, English

Duncan, Richard, M.F.A. (Southern Illinois University), Associate Professor, Visual Arts

Dundas, Robert, M.F.A. (University of Iowa), Assistant Professor, School of Music

Dunn, Marvin, Ph.D. (University of Tennessee), Associate Professor and Chairperson, Psychology

Duncscomb, Richard, M.M.E. (Millikin University), Professor, School of Music

Dutta Gupta, Shamita, Ph.D. (Brown University), Assistant Professor, Mathematics

Dutta, Shambita, M.A. (Columbia University), Professor, History

Elkins, Charles, Ph.D. (Southern Illinois University), Professor, English

Elkins, Mary Jane, Ph.D. (Southern Illinois University), Associate Professor, English

Elton, Hugh, Ph.D. (Oxford University), Assistant Professor, History

Endel, Peggy, Ph.D. (Cornell University), Associate Professor, English

Erber, Joan, Ph.D. (St. Louis University), Professor, Psychology

Escovar, Luis, Ph.D. (Pennsylvania State University), Associate Professor, Psychology

Evangelist, Michael, Ph.D. (Northwestern University), Professor School of Computer Science

Fanomezantsoa, Mhola, M.S. (State University of New York-Institute of Technology), Instructor, School of Computer Science

Fernandez, Damian J., Ph.D. (University of Miami), Associate Professor and Chairperson, International Relations

Fernandez, Nadine, Ph.D. (University of California-Berkeley), Assistant Professor, Sociology/Anthropology

Fleibig, Rudolf, Ph.D. (University of Munster), Professor, Physics

Field, Jr., William, M.A. (Florida International University), Instructor, School of Computer Science

Finley, Gordon, Ph.D. (Harvard University), Professor, Psychology

Fisher, Jack B., Ph.D. (University of California-Davis), Research Scientist, Biological Sciences

Fisher, Ronald, Ph.D. (Ohio State University), Professor, Psychology

Fjellman, Stephen, Ph.D. (Stanford University), Professor, Sociology/Anthropology and Associate Dean, Honors College

Flexer, Arthur, Ph.D. (Stanford University), Associate Professor, Psychology

Fox, Domitila, M.S. (University of Miami), Instructor, Mathematics

Francisco-Ortega, Javier, Ph.D. (University of Birmingham, Great Britain), Assistant Professor, Biological Sciences

Frazier, Leslie, Ph.D. (Syracuse University), Assistant Professor, Psychology

Free, Mary, Ph.D. (University of Georgia), Associate Professor and Associate Chairperson, English

Friedman, Rebecca, M.A. (University of Michigan), Assistant Professor, History

Fuller, Karen, M.F.A. (Florida International University), Instructor and Director of Performing Arts Production, School of Music

Furton, Kenneth, Ph.D. (Wayne State University), Associate Professor and Chairperson, Chemistry

Fourqurean, James, Ph.D. (University of Virginia), Assistant Professor, Biological Sciences and Southeast Environmental Research Center

Gamarra, Eduardo, Ph.D. (University of Pittsburgh), Professor, Political Science and Director, Latin American and Caribbean Center

Garcia, Orlando, D.M.A. (University of Miami), Professor, School of Music

Gardinali, Piero, Ph.D. (Texas A&M University), Assistant Professor, Chemistry and Southwest Environmental Research Center

Generaux, David P., Ph.D. (Massachusetts Institute of Technology), Associate Professor, Geology

George, Robert, Ph.D. (University of Washington), Lecturer, Biological Sciences

George, Jr., Roby, Ph.D. (University of Cincinnati), Assistant Professor, School of Music

Gerstman, Bernard, Ph.D. (Princeton University), Professor, Physics

Gewirtz, Jacob, Ph.D. (State University of Iowa), Professor, Psychology

Ghai, Gauri, Ph.D. (Iowa State University), Associate Professor, Statistics

Girard, Chris, Ph.D. (University of Wisconsin-Madison), Associate Professor, Sociology/Anthropology

Gladwin, Hugh, Ph.D. (Stanford University), Associate Professor, Sociology/Anthropology

Goldberg, Walter, Ph.D. (University of Miami), Professor, Biological Sciences

Gomez, Maria Asunciion, Ph.D. (Rutgers University), Assistant Professor, Modern Languages

Gomez, Mirta, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts

Gonzalez-Reigosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology, and Dean, Honors College

Gorman, Susan, Ph.D. (University of Maryland), Instructor, Mathematics

Gottlieb, Joel, Ph.D. (University of California-Riverside), Associate Professor, Political Science

Graves, A. Palmer, Ph.D. (University of Oklahoma), Lecturer, Chemistry

Gray, Christopher, Ph.D. (Indiana University), Assistant Professor, History

Grenier, Guillermo, Ph.D. (University of New Mexico), Associate Professor, Sociology and Director, Center for Labor Research and Studies

Griffith, Ivelaw L., Ph.D. (City University of New York), Associate Professor, Political Science and Associate Dean, College of Arts and Sciences

Gross, Michael, Ph.D. (Pennsylvania State University), Associate Professor, Geology

Gudorf, Christine, Ph.D. (Columbia University), Professor, Religious Studies
Guers-Villate, Yvonne, Ph.D. (Bryn Mawr College), Professor Emeritus, Modern Languages
Gulati, Sneh, Ph.D. (University of South Carolina), Associate Professor, Statistics
Gummerson, Alan, Ph.D. (University of Wisconsin-Madison), Instructor, Economics
Hadjilambrinos, Constantine, Ph.D. (University of California-Los Angeles), Assistant Professor, Environmental Studies
Hall, Elizabeth, M.F.A. (University of Massachusetts) Assistant Professor, Visual Arts
Hall, James, Ph.D. (University of Utah), Professor, English
Haró, Kenneth, Ph.D. (Tulane University), Professor, Physics
Hargitai, Peter, M.F.A. (University of Massachusetts), Lecturer, English
Harrison, Kimberly, Ph.D. (Louisiana State University), Assistant Professor, English
Hart, Mitchell, Ph.D. (University of California-Los Angeles), Assistant Professor, History
Harvey, Bruce, Ph.D. (Stanford University), Assistant Professor, English
Hauptli, Bruce, Ph.D. (Washington University), Professor, Philosophy
He, Xudong, Ph.D. (Virginia Polytechnic University), Assistant Professor, School of Computer Science
Heine, Steven, Ph.D. (Temple University), Professor, Religious Studies
Heinen, Joel, Ph.D. (University of Michigan), Associate Professor, Environmental Studies
Henley, Kenneth, Ph.D. (University of Virginia), Professor, Philosophy
Herrera, Rene, Ph.D. (Fordham University), Associate Professor, Biological Sciences
Herriott, Arthur, Ph.D. (University of Florida), Professor, Chemistry and Dean, College of Arts and Sciences
Hickey-Vargas, Rosemary, Ph.D. (Massachusetts Institute of Technology) Professor, Geology
Hill, Kevin, Ph.D. (University of Florida), Associate Professor, Political Science
Hoder-Salmon, Marilyn, Ph.D. (University of New Mexico), Associate Professor, English
Hoffman, Gary, Ph.D. (Harvard University), Associate Professor, Chemistry
Hollander, Gail, Ph.D. (University of Iowa), Assistant Professor, International Relations
Hopkins, Tometro, Ph.D. (Indiana University), Associate Professor, English
Houghton, William, M.S. (University of Georgia), Research Scientist, Biological Sciences
Howell, Ina Parks, Ph.D. (University of South Florida), Lecturer, Statistics
Huchinson, James, Ph.D. (Emory University), Associate Professor, Religious Studies
Hudson, Steven, Ph.D. (University of Chicago), Associate Professor, Mathematics
Jacobs, Ellen, M.S. (Illinois Institute of Technology), Professor, Visual Arts
Jaffe, Rudolf, Ph.D. (Indiana University), Associate Professor, Chemistry and Associate Director, Southeast Environmental Research Center
Jayachandran, Krishnaswamy, Ph.D. (Kansan State University), Assistant Professor, Environmental Studies and Southeast Environmental Research Program
Jensen, John, Ph.D. (Harvard University), Professor, Modern Languages
Joens, Jeffrey, Ph.D. (Indiana University), Professor, Chemistry
Johnson, Kenneth, Ph.D. (Brown University), Associate Professor, English and Assistant Vice President, Academic Affairs
Johnson, Sherry, Ph.D. (University of Florida), Assistant Professor, History
Johnson-Cousin, Danielle, Ph.D. (University of Illinois), Associate Professor, Modern Languages
Jones, Ronald, Ph.D. (Oregon State University), Professor, Biological Sciences and Director, Southeast Environmental Research Center
Jorge, Antonio, Ph.D. (Villanova University), Professor, Economics, International Relations, Political Science and Sociology/Anthropology
Juan-Navarro, Santiago, Ph.D. (Columbia University), Assistant Professor, Modern Languages
Kafkoulis, George, Ph.D. (California Institute of Technology), Associate Professor, Mathematics
Kahan, Alan, Ph.D. (University of Chicago), Associate Professor, History
Kaminsky, Howard, Ph.D. (University of Chicago), Professor Emeritus, History
Karayalcin, Ali Cem, Ph.D. (Columbia University), Associate Professor, Economics
Karsh, Ellen, M.A. (Florida International University), Instructor, Theatre and Dance-Speech Communication Program
Kates, Jeanne, M.A. (Florida International University), Instructor, Political Science
Katz, Nathan, Ph.D. (Temple University), Professor and Chairperson, Religious Studies
Kaufman, Frederick, M.M. (Manhattan School of Music), Professor and Director, School of Music
Keller, Leonard, Ph.D. (Yale University), Professor, Chemistry
Kihria, Golam, Ph.D. (University of Western Ontario), Assistant Professor
Kincaid, A. Douglas, Ph.D. (The Johns Hopkins University), Associate Professor, Sociology/Anthropology and Research Director, Latin American and Caribbean Center
King, Clive, A.T.C., Ph.D. (University of Bonn, Germany), Assistant Professor, Physics
Knapp, Jeffrey, M.A. (University of Miami), Instructor, English
Koptur, Suzanne, Ph.D. (University of California-Berkeley), Professor, Biological Sciences
Kos, Lidia, Ph.D. (University of California-Berkeley), Assistant Professor, Biological Sciences
Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy
Kovara, Margaret, Ph.D. (University of Minnesota), Assistant Professor, Psychology
Kowert, Paul, Ph.D. (Cornell University), Assistant Professor, International Relations
Kramer, Laird, Ph.D. (Duke University), Assistant Professor, Physics
Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor and Associate Director, School of Computer Science
Kretz, Kathleen, M.F.A. (University of Georgia), Assistant Professor, Visual Arts
Kriegel, Lara, Ph.D. (The Johns Hopkins University), Assistant Professor, History
Kuhn, David N., Ph.D. (University of California-Davis), Associate Professor, Biological Sciences
Kurtines, William, Ph.D. (The Johns Hopkins University), Professor, Psychology
Landrum, John, Ph.D. (University of Southern California), Professor, Chemistry
Langer, Lilly, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology
Larson, Erik, Ph.D. (New York University), Assistant Professor, History
Lavender, Abraham, Ph.D. (University of Maryland), Professor, Sociology/Anthropology
Leatherman, Stephen P., Ph.D. (University of Virginia), Professor, Environmental Studies and Director, International Hurricane Center
Leckband, Mark, Ph.D. (Purdue University), Associate Professor, Mathematics
Lee, David, Ph.D. (Rutgers University), Professor, Biological Sciences
Lenke, Robert J., Ph.D. (University of Wisconsin-Madison), Assistant Professor, Economics
Leness, Thomas, Ph.D. (Columbia University), Assistant Professor, Mathematics
Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/Anthropology
Levitt, Mary, Ph.D. (Syracuse University), Professor, Psychology
Li, Bao Qin, Ph.D. (University of Maryland), Associate Professor, Mathematics
Lichtenstein, Alex, Ph.D. (University of Pennsylvania), Associate Professor, History
Lifshitz, Felice, Ph.D. (Syracuse University), Associate Professor, History
Liossatos, Panagis, Ph.D. (University of Pennsylvania), Professor and Chairperson, Economics
Lipartito, Kenneth, Ph.D. (The Johns Hopkins University), Professor, History
Lipper, Kenneth, Ph.D. (Rutgers University), Associate Professor, Economics
Longoria, Jose, Ph.D. (University of Texas-Dallas), Professor, Geology
Lopez, Alfred, Ph.D. (University of Iowa), Assistant Professor, English
Lopez de la Vega, Ramon, Ph.D. (University of Miami), Associate Professor, Chemistry
Lowery, Shearon, Ph.D. (Washington State University), Associate Professor, Sociology/Anthropology
Lund, Gary, B.F.A. (Florida International University), Instructor, Theatre and Dance
MacDonald, Charles, Ph.D. (University of Virginia), Professor, International Relations
MacFarlane, Andrew W., Ph.D. (Harvard University), Associate Professor, Geology
Machonis, Peter A., Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages
Maguire, William, M.S. (Illinois Institute of Technology), Professor, Visual Arts
Mahler, Sarah, Ph.D. (Columbia University), Associate Professor, Sociology/Anthropology
Maingot, Anthony, Ph.D. (University of Florida), Professor, Sociology/Anthropology
Makemson, John, Ph.D. (Washington State University), Professor and Chairperson, Biological Sciences
Marcus, Phillip, Ph.D. (Harvard University), Professor, English
Markham, Michael, Ph.D. (University of New Mexico), Assistant Professor, Psychology
Markowitz, Peter, Ph.D. (College of William and Mary), Assistant Professor, Physics
Marks, Michelle, Ph.D. (George Mason University), Assistant Professor, Psychology
Martin, Kathleen, Ph.D. (Bryn Mawr College), Associate Professor, Sociology/Anthropology
Martinez, Juan A., Ph.D. (Florida State University), Associate Professor, Visual Arts
Mau, James A., Ph.D. (University of California-Los Angeles), Professor, Sociology/Anthropology and Vice Chancellor, State University System
Maurrasse, Florendin, Ph.D. (Columbia University), Professor, Geology
Maxwell, Oren, Ph.D. (State University of New York at Stony Brook), Professor, Physics
McClain, Michael, Ph.D. (University of Wisconsin), Assistant Professor, Environmental Studies
McCormack, Kathleen, Ph.D. (University of Miami), Associate Professor, English
McCoy, Diana, M.A. (Case Western Reserve University), Instructor, Mathematics
McElfresh, Clair, D.M.A. (Case Western Reserve University), Professor Emeritus, School of Music
McGrath, Campbell, M.F.A. (Columbia University), Associate Professor, English
McIntyre, Carmela Pinto, Ph.D. (Michigan State University), Associate Professor, English
Melchoir, Mary Beth, Ph.D. (University of Maryland-College Park), Assistant Professor, Political Science
Mendoza, Ramon, Ph.D. (Freie Universitaet, Berlin), Professor, Modern Languages and Humanities
Meng Robinson, Cathy, M.M. (San Francisco Conservatory of Music), Miami String Quartet-in-Residence, School of Music
Mesbahi, Mohiaddin, Ph.D. (University of Miami), Associate Professor, International Relations
Meziani, Abdelhamid, Ph.D. (Rutgers University), Professor, Mathematics
Mi, Jie, Ph.D. (University of Pittsburgh), Associate Professor and Chairperson, Statistics
Milani, Masoud, Ph.D. (University of Central Florida), Associate Professor, School of Computer Science
Milbauer, Asher, Ph.D. (University of Washington-Seattle), Associate Professor, English
Mintz, Stephan, Ph.D. (The Johns Hopkins University), Professor and Chairperson, Physics
Mitra, Devashish, Ph.D. (Columbia University), Assistant Professor, Economics
Molash, Douglas Dean, M.F.A. (Mankato State University), Assistant Professor, Theatre and Dance
Montgomery, Marilyn, Ph.D. (Texas Tech University), Assistant Professor, Psychology
Morales-Martinez, Zaida C., M.S. (Pennsylvania State University), Instructor, Chemistry
Morgan, Dahlia, Diplomate of College Teaching (University of Florida), Professor, Visual Arts and Director of The Art Museum
Moran, Gary, Ph.D. (Katholieke University, Nijmegen, Netherlands), Professor, Psychology
Moreno, Dario, Ph.D. (University of Southern California), Associate Professor, Political Science
Morrow, Betty, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology
Nadel, Richard, M.S. (Northwestern University), Instructor, Mathematics
Navlakha, Jairendra, Ph.D. (Case Western Reserve University), Professor and Director, School of Computer Science
Neal, Leslie, M.A. (Florida State University), Assistant Professor, Theatre and Dance
Nelson, Brian, Ph.D. (University of California-Riverside), Associate Professor, Political Science
Neumann, Roderick P., Ph.D. (University of California-Berkeley), Associate Professor, International Relations
Neus, Jordan, Ph.D. (University of New York at Stony Brook), Assistant Professor, Statistics
Norstog, Knut, Ph.D. (University of Michigan), Research Scientist, Biological Sciences
Northup, Lesley, Ph.D. (Catholic University), Associate Professor, Religious Studies
O'Shea, Kevin E., Ph.D. (University of California-Los Angeles), Associate Professor, Chemistry
Oberbauer, Steven, Ph.D. (Duke University), Associate Professor, Biological Sciences
Okubo, Case, Ph.D. (University of Guelph), Associate Professor, Biological Sciences
Olson, Richard, Ph.D. (University of Oregon), Professor and We Will Rebuild Eminent Scholar, Political Science
Onuf, Nicholas, Ph.D. (The Johns Hopkins University), Professor, International Relations
Orta, Michael, M.A. (University of Miami), Assistant Professor, School of Music
Osborne, William, Jr., Ph.D. (Emory University), Associate Professor, Sociology/Anthropology
Owen, Claudia, Ph.D. (University of Washington), Lecturer, Geology
Parker, Janat, Ph.D. (University of California-Berkeley), Professor, Psychology and Director of Liberal Studies
Parker, John, Ph.D. (University of California-Berkeley), Professor, Environmental Studies and Chemistry
Passos, Fernando, M.F.A., (Tisch School of the Arts, New York University), Instructor, Theatre and Dance
Pastor, Ana, DRN (Darmstadt University, West Germany), Professor, School of Computer Science
Patrouch, Joseph F., Ph.D. (University of California-Berkeley), Associate Professor, History
Patterson, Chauncey, B.M. (The Curtis Institute of Music), Miami String Quartet-in-Residence, School of Music
Peacock, Walter G., Ph.D. (University of Georgia), Professor and Chairperson, Sociology/Anthropology
Pelin, Alexandru, Ph.D. (University of Pennsylvania), Associate Professor, School of Computer Science
Perez, Lisandro, Ph.D. (University of Florida), Associate Professor, Sociology/Anthropology, and Director of Cuban Research Institute
Pestaina, Norman, M.S. (Pennsylvania State University), Instructor, School of Computer Science
Peterson, Brian, Ph.D. (University of Wisconsin-Madison), Associate Professor, History
Peterson, Joyce, Ph.D. (University of Wisconsin-Madison), Associate Professor, History and Associate Dean, College of Arts and Sciences
Piantini, Carlos, B.M. (New York College of Music), Professor, School of Music
Pitzer, Thomas, M.S. (Auburn University), Instructor, Biological Sciences
Pliske, Thomas, Ph.D. (Cornell University), Lecturer, Biological Sciences and Environmental Studies
Prabhakaran, Nagarajan, Ph.D. (University of Queensland), Associate Professor, School of Computer Science
Price, Patricia, Ph.D. (University of Washington), Assistant Professor, International Relations
Prugl, Elizabeth, Ph.D. (The American University), Associate Professor, International Relations
Pyron, Darden, Ph.D. (University of Virginia), Professor, History
Quirk, Martin, Ph.D. (University of Liverpool), Professor, Chemistry
Rae, Nicol, D.Phil. (Oxford University), Associate Professor and Chairperson, Political Science
Rahier, Jaen, Ph.D. (University of Paris X-Nanterre), Associate Professor, Sociology/Anthropology
Ramsamujh, Tajee, Ph.D. (California Institute of Technology), Associate Professor, Mathematics
Rand, Gary, Ph.D. (Texas A & M University), Associate Professor, Environmental Studies and Southeast Environmental Research Center
Ratner, Robert, M.A. (University of Miami), Instructor, English
Raue, Brian, Ph.D. (Indiana University), Assistant Professor, Physics
Rein, Kathleen, Ph.D. (University of Miami), Assistant Professor, Chemistry
Reinhold, Jorg, Ph.D., (Technische Universitaet Munchen), Assistant Professor, Physics
Reisert, Laura, M.S. (University of Florida), Instructor, Statistics
Remy, Terry, Ph.D. (Temple University), Assistant Professor, Religious Studies
Richards, Jennifer, Ph.D. (University of California-Berkeley), Professor, Biological Sciences
Richardson, Laurie, Ph.D. (University of Oregon), Associate Professor, Biological Sciences
Rishe, Naphtali, Ph.D. (Tel Aviv University, Israel), Professor, School of Computer Science
Ritter, David, Ph.D. (Louisiana State University), Associate Professor, Mathematics
Robinson, Keith, B.M. (The Curtis Institute of Music). Miami String Quartet-in-Residence, School of Music
Robinson, Wayne, M.F.A. (National Theatre Conservatory), Assistant Professor, Theatre and Dance
Roca, Ana, D.A. (University of Miami), Associate Professor, Modern Languages
Rochelson, Meri-Jane, Ph.D. (University of Chicago), Associate Professor, English
Rock, Howard, Ph.D. (New York University), Professor, History
Rogerson, Kenneth, Ph.D. (University of California-San Diego), Professor, Philosophy and Director of Humanities
Rohm, Joseph, Ph.D. (Florida State University), Associate Professor, School of Music
Roller, Barbara, Ph.D. (University of Pennsylvania), Lecturer, Biological Sciences
Rosenberg, Mark, Ph.D. (University of Pittsburgh), Professor, Political Science, and University Provost
Rosenthal, Michael, M.S. (University of Miami), Instructor, Mathematics
Rotton, James, Ph.D. (Purdue University), Associate Professor, Psychology
Roy, Dev, Ph.D. (University of Rochester), Associate Professor, Mathematics
Roy, Santanu, Ph.D. (Cornell University), Associate Professor, Economics
Rubenberg, Cheryl, Ph.D. (University of Miami), Associate Professor, Political Science
Rubin, Richard, Ph.D. (Washington University), Associate Professor, Mathematics
Rudominer, Mitch, Ph.D. (University of California-Los Angeles), Assistant Professor, Mathematics
Rukimbira, Philippe, Ph.D. (Pennsylvania State University), Associate Professor, Mathematics
Salazar-Carrillo, Jorge, Ph.D. (University of California-Berkeley), Professor, Economics and Director, Center of Economic Research
Salokar, Rebecca, Ph.D. (Syracuse University), Associate Professor, Political Science
Salvador, Miguel, D.M.A. (University of Miami), Associate Professor, School of Music
Sanchez, Juan, Ph.D. (University of South Florida), Associate Professor, Psychology
Sanchez, Reinaldo, Ph.D. (Washington University), Professor, Modern Languages
Sanders, Roger, Ph.D. (University of Texas-Austin), Research Scientist, Biological Sciences
Sandoval, Arturo, Superior Level (National School of Art, Havana, Cuba), Professor, School of Music
Sargisian, Misak, Ph.D. (Yerevan Physics Institute), Assistant Professor, Physics
Schwartz, Bennett, Ph.D. (Dartmouth College), Associate Professor, Psychology
Schwartz, Richard, Ph.D. (University of Chicago), Professor, English
Seidel, Andrea, D.A. (New York University), Associate Professor, Theatre and Dance
Sen, Gautam, Ph.D. (University of Texas-Dallas), Professor and Chairperson, Geology
Shapiro, Samuel S., Ph.D. (Rutgers University), Professor, Statistics
Shaw, Gregory, M.S. (Barry University), Instructor, School of Computer Science
Sheldon, John, Ph.D. (Texas A&M University), Professor, Physics
Sheriff, Robin, Ph.D. (City University of New York), Assistant Professor, Sociology/Anthropology
Shershin, Anthony, Ph.D. (University of Florida), Associate Professor, Mathematics
Shriner, Brian, M.A. (University of Miami), Instructor, Theatre and Dance-Speech Communication Program
Shore, Minna, Ph.D. (Leningrad Technical Institute), Instructor, Mathematics
Silverman, Wendy, Ph.D. (Case Western Reserve University), Professor, Psychology and Director, Child and Family Psychosocial Research Center
Silverstein, Ronn, M.A. (Sir George Williams University, Montreal), Instructor, English
Simpson, Caroline, Ph.D. (University of Florida), Assistant Professor, Physics
Sioha, Rakesh, Ph.D. (University of Washington), Instructor, School of Computer Science
Skow, Marilyn, M.Ph. (Columbia University), Associate Professor, Theatre and Dance
Sliker, James, Ph.D. (University of Notre Dame), Associate Professor, Mathematics
Smith Geoffrey, Ph.D., (Cornell University), Assistant Professor, School of Computer Science
Smith, Joslyn, M.S. (University of New Brunswick), Instructor, School of Computer Science
Smith, Katherine, Ph.D. (University of Connecticut), Assistant Professor, English
Sprachman, Ellen, Ph.D. (University of Miami), Lecturer, English
Stack, John, Jr., Ph.D. (University of Denver), Professor, Political Science and Director, Institute for Public Policy and Citizenship Studies
Standiford, Lester, Ph.D. (University of Utah), Professor, English and Director, Creative Writing Program
Steckel, Alex, Ph.D. (University of California-Irvine), Professor, Sociology/Anthropology and Director, Ethnicity and Immigration Institute
Stiehm, Judith, Ph.D. (Columbia University), Professor, Political Science
Stier, Oren, Ph.D. (University of California-Santa Barbara), Assistant Professor, Religious Studies
Stopard, Philip D., Ph.D. (University of Washington), Associate Professor, Biological Sciences
Strong-Leek, Linda, Ph.D. (Michigan State University), Assistant Professor, English
Sugg, Richard, Ph.D. (University of Florida), Professor, English
Sun, Wei, Ph.D. (University of Illinois-Chicago Circle), Associate Professor, School of Computer Science
Sutton, James M., Ph.D (Yale University), Assistant Professor, English
Sweet, James, Ph.D. (City University of New York), Assistant Professor, History
Syropoulos, Constantinos, Ph.D. (Yale University), Associate Professor, Economics
Szuchman, Mark, Ph.D. (University of Texas-Austin), Professor, History and Associate Dean, College of Arts and Sciences
Tao, Nongjian, Ph.D. (Arizona State University), Associate Professor, Physics
Tachie-Medjo, Theodore, Ph.D. (University of Paris), Assistant Professor, Mathematics
Tardanico, Richard, Ph.D. (The Johns Hopkins University), Associate Professor, Sociology/Anthropology
Taylor, Clarence, Ph.D. (Syracuse University), Professor, History
Taylor, Graham, Ph.D. (University of California-Berkeley), Assistant Professor, Mathematics
Thomakos, Dimitrios, Ph.D., (Columbia University), Assistant Professor, Economics
Timlick, Lesley-Anne, M.A. (University of California-Davis), Associate Professor, Theatre and Dance
Todd, Therald, Ph.D. (University of Oregon), Associate Professor, Theatre and Dance
Torres, Manuel, Ph.D. (University of New Mexico), Professor, Visual Arts
Torres-Pou, Juan, Ph.D. (Rutgers University), Assistant Professor, Modern Languages
Tracey, Martin, Ph.D. (Brown University), Professor, Biological Sciences
Trexler, Joel C., Ph.D. (Florida State University), Associate Professor, Biological Sciences
Tubman, Jonathan, Ph.D. (Pennsylvania State University), Associate Professor, Psychology
Uribe, Victor, Ph.D. (University of Pittsburgh), Assistant Professor, History
Vagramian-Nishanian, Violet, Ph.D. (University of Miami), Professor, School of Music
Van Hamme, Walter, Ph.D. (University of Ghent, Belgium), Associate Professor, Physics
Vickers, William, Ph.D. (University of Florida), Professor, Sociology/Anthropology
Villamor, Enrique, Ph.D. (Washington University), Associate Professor and Chairperson, Mathematics
Viswesvaran, Chockalingam, Ph.D. (University of Iowa), Associate Professor, Psychology
Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, School of Music
Wakefield, Daniel, B.A. (Columbia College), Lecturer and Writer-in-Residence, English
Walker III, William, Ph.D. (University of California-Santa Barbara), Professor and Chairperson, History
Waltz, Susan, Ph.D. (University of Denver), Professor, International Relations
Wang, Wensheng, Ph.D. (California Institute of Technology), Assistant Professor, Mathematics
Wang, Xuewen, Ph.D. (Iowa State University), Associate Professor, Physics
Warren, Christopher, D.A. (Lehigh University), Associate Professor, Political Science
Warren, Paul, Ph.D. (University of Wisconsin-Madison), Associate Professor and Chairperson, Philosophy
Watson, Donald, Ph.D. (University of Virginia), Professor and Chairperson, English
Watson-Espener, Maida, Ph.D. (University of Florida), Professor, Modern Languages
Watts, Barbara, Ph.D. (University of Virginia), Associate Professor, Visual Arts
Waugh, Butler, Ph.D. (Indiana University), Professor, English
Webb, James, Ph.D. (University of Florida), Associate Professor, Physics
Weeks, Ophelia, Ph.D. (Howard University), Associate Professor, Biological Sciences
Weiss, Mark, Ph.D. (Princeton), Professor, School of Computer Science
Weitz, Barbara, M.S. (Florida International University), Instructor, English
Welch, Marcelle, Ph.D. (University of Michigan), Professor, Modern Languages and Associate Director of Liberal Studies
West, Lois, Ph.D. University of California-Berkeley), Associate Professor, Sociology/Anthropology
Whitman, Dean, Ph.D. (Cornell University), Associate Professor, Geology
Wnuk, Stanislaw, Ph.D. (Adam Mickiewicz University, Poland), Associate Professor, Chemistry
Wilkins, Mira, Ph.D. (University of Cambridge), Professor, Economics
Williams, C. Kemp, Ph.D. (Indiana University), Associate Professor, English
Willumsen, Maria, Ph.D. (Cornell University), Associate Professor, Economics
Winkle, Stephen, Ph.D. (University of California-Berkeley), Associate Professor, Chemistry
Wolf, Gregory Baker, Ph.D. (The Fletcher School of Law and Diplomacy), Professor, International Relations
Wood, Kirsten, Ph.D. (University of Pennsylvania), Assistant Professor, History
Yavas, Mehmet, Ph.D. (University of Kansas), Professor, English and Director, Linguistics
Young, Theodore, Ph.D. (Harvard University), Assistant Professor, Modern Languages
Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages
Zahedi-Jasbi, Hassan, Ph.D. (University of California-Riverside), Associate Professor, Statistics
Zalkikar, Jyoti N., Ph.D. (University of California-Santa Barbara), Associate Professor, Statistics
Zhang, Jiandi, Ph.D. (Syracuse University), Assistant Professor, Physics
Zhu, Yifu, Ph.D. (University of Virginia), Associate Professor, Physics
Zweibel, John, Ph.D. (Columbia University), Associate Professor, Mathematics
College of Business Administration
Mission Statement

The College of Business Administration exists to create enduring educational value for our students, for our alumni, and for the business, professional, and academic communities we serve.

For our students—whom we prepare to succeed in a rapidly changing, technology-driven global business environment;

For our alumni—to whom we provide opportunities for continuing professional development and a legacy that appreciates as our excellence grows;

For the business and professional communities—to whom we offer knowledgeable graduates, educational programs, research, and collaborative projects;

For the academic community—to whom we bring new knowledge through high-quality research and the development of future scholars.

Our vision is to create a College of Business Administration that is distinguished among urban public business schools as a center for global business education, technology, and research. Our most noteworthy teaching and research expertise lies in the business arenas linking South Florida, Latin America, and the world economy.

Our College offers undergraduate, graduate, professional education, customized training, and several certification programs to traditional and nontraditional students and to enterprises around the world. While continuing to meet the needs of students in the South Florida community, we are intensifying our educational service delivery to international students and enterprises, especially those in Latin America.

In all of our programs, we strive to instill in students a profound understanding of the changing nature of international business in an integrated and digital global economy. We ensure they are well versed in the impact information technology has on how enterprises are organized and managed and on how products and services are created and marketed. We provide them with a solid grasp of business processes, the ability to think critically and to solve problems ethically, and the sense to conduct themselves with integrity and within the context of social and environmental responsibility. We foster their commitment to life-long learning in a dynamic, complex, and competitive world.

Our faculty engage in basic and applied research and in instructional development to contribute not only to the general knowledge base in the field of business but also to the ways in which this knowledge is created and shared. Our College boasts a state-of-the-art information technology infrastructure that enables us to provide leading edge instruction and research, including online course delivery. At the same time, our IT investment supports our ongoing curricular innovation in related fields like enterprise-wide computing and logistics.

Organization

The College is organized into the School of Accounting and the Departments of Decision Sciences and Information Systems, Finance, Management and International Business, and Marketing.

The College also houses several centers of excellence dedicated to teaching, research, and service. These include the Jerome Bain Real Estate Institute, the Center for Banking and Financial Institutions, the Ryder Center for Logistics, the Knight Ridder Center for Excellence in Management, the Center for Management Development, The Center for Management in the Americas and the Center for International Business Education and Research.

Degree Programs

The College of Business Administration (CBA) offers academic programs leading to the undergraduate degrees of Bachelor of Business Administration (B.B.A.) and Bachelor of Accounting (B. Acc.) and to the graduate degrees of Master of Accounting (M.Acc.), Master of International Business (M.I.B.) Master of Business Administration (M.B.A.), Master of Science in Finance (M.S.F.), Master of Science in Management Information Systems (M.S.M.I.S.), Master of Science in Taxation (M.S.T.), and Doctor of Philosophy in Business Administration (Ph.D.).

Master’s Degree Programs

Admission Requirements

To be eligible for admission to a Master’s degree program in the College of Business Administration, students must:

1. Meet the general University requirements for admission to a graduate degree program;

2. Hold a Bachelor’s degree from an accredited college or university.*

3. Show high promise of success in graduate studies as determined by the faculty based upon a combination of the Graduate Management Admission Test (GMAT) score or the Graduate Record Exam (GRE) score and the upper-division grade point average (GPA).*

4. If applicant is an international student whose native language is not English, he/she must have a minimum score of 500 on the paper-based TOEFL, 173 on the computer-based TOEFL, or an equivalent score on a comparable examination. [Students should study the “General Admission” requirements for foreign students in the “Admissions” section of this catalog];

5. Be in good standing with all previously-attended colleges and universities.

*Requirements may be waived in exceptional cases for executive, tuition-plus fees programs: EMBA, Global (e)MBA, etc.

Application Procedures

To apply for admission to graduate study in the College of Business Administration, prospective students must:

1. Submit a Graduate Application for Admission to the University’s Admissions Office. Application forms will be mailed upon request or can be downloaded from the internet at (www.fiu.edu/orgs/admiss/application.html). The admission process may take as long as two months after the University receives a student’s application, depending upon the time involved in obtaining transcripts and test scores. Students are encouraged to apply early.

2. Have a copy of the official transcripts of all previously-earned college or university credits sent from the formerly-attended institution(s) to the University’s Admissions Office.
Copies submitted directly by student applicants will not be accepted.

3. Submit scores on the Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE), administered by the Educational Testing Service (ETS), Box 966, Princeton, New Jersey 08540. Scores must be submitted by the ETS. Registration forms will be mailed upon request.

For additional requirements, consult individual program offices listed below.

### Readmission

Students who are pursuing a graduate degree in the College of Business Administration but who have not completed any course at the University for three consecutive semesters (including summer) must apply for readmission. If readmitted, such students must comply with the University and College’s degree program requirements in effect at the time of readmission.

### Transfer Credit

A student may receive permission to transfer up to a maximum of six semester hours of graduate credit towards his/her degree program, if:

1. The courses were taken at the graduate level at an accredited college or university;
2. The courses were not introductory or survey in nature;
3. The student earned grades of “B” or higher in the courses;
4. The courses are judged by the Department Chair, College Dean, and program manager to be relevant to the student’s graduate program;
5. The credits were not used toward another degree; and
6. The credits were completed within six years immediately preceding the College’s awarding of the degree.

Credits are not transferable until the student has earned 15 semester hours in a College of Business Administration graduate degree program.

### Change of Concentration

The graduate student who wishes to change his or her graduate program of study must submit a “Graduate Change of Program” request to the College’s Graduate Advising Office and meet the admission and degree program requirements in effect at the time of the change.

### Degree Requirements

To be eligible for a Master’s degree, a student must:

1. Satisfy all University requirements for a Master’s degree;
2. Satisfy required prerequisites;
3. Meet the requirements of his or her graduate “Course of Study.” This “Course of Study” is developed by the student and his or her graduate advisor following his or her admission to a program and is approved by the appropriate Department Chair or Program Director.
4. Complete the required courses in the specific graduate program in which he/she is enrolled.
5. Earn a minimum average of “B” (3.0) in all approved courses in the student’s approved course of study.

No courses in which a graduate student earns a grade below “C” may be counted towards any Master’s degree program in the College. However, all approved undergraduate and graduate course work a graduate student takes will be counted in computing his or her grade point average, including courses in which he or she has earned a “D” or “F” grade.

Faculty have the discretion to administratively drop students who do not attend the first class of a course.

### Time Limit

All work applicable to a Master’s degree, including transfer credit, must be completed within six years immediately preceding the awarding of the degree.

### Study Abroad Programs

Graduate students in the College may earn a maximum of three (3) credit-hours only for study abroad programs unless otherwise prescribed by their degree program.

### Master of Business Administration (M.B.A.)

The Master of Business Administration degree is designed to give students a general management education and to help them prepare for advancement in their business careers. Since it is a part-time program, it is especially valuable for those students who work full-time during the daytime hours. Specialized concentrations are available within this degree program in some disciplines.

The part-time Evening M.B.A. program offers courses on Mondays—Thursday—per week. Classes are held on the College’s University Park campus. The required Professional Development Seminars are offered in the Fall and Spring terms on 3 different Saturdays.

Students may take up to four regular courses and a Professional Development Seminar per semester, though the majority of students opt to take two courses and a Professional Development Seminar per semester and generally earn their M.B.A. degree in about three years. Students also must own or have access to a laptop computer with a specified configuration and with wireless capability.

For additional information about the Evening M.B.A. program, please contact the program director, at (305) 348-3256 or 4723 or address your inquiry to evemba@fiu.edu

### Executive Master of Business Administration

The Executive Master of Business Administration (EMBA) degree program, designed for working business professionals, delivers a total graduate education experience prepar-
ing students for new and expanding responsibilities as senior-level functional or general managers. It is a rigorous, tuition-plus-fees program that is limited to a select number of qualified students.

Program participants earn their MBA degree without interrupting their careers. Structured so that all requirements can be completed in twenty-one months, the program is offered on three Saturdays and one Friday per month at the Roz and Cal Kovens Conference Center on the North Campus.

For additional information about this program, call the EMBA office at (305) 348-1036 or email emba@fiu.edu

### International Master of Business Administration (IMBA)

The IMBA (International MBA) degree program features an MBA curriculum with an international business focus. This tuition-plus-fees program has been especially designed for students/working professionals interested in pursuing their international business careers. For students from outside the U.S., it represents an opportunity to prepare for executive positions in the U.S. as well as in other parts of the world. For students in the U.S. who would like to assume business leadership in international businesses, it provides an integrated perspective of international business issues and the knowledge they need to succeed in a rapidly evolving, global economy.

Given the College of Business Administration's Miami location and expertise in Latin American and Caribbean business, the program is particularly valuable for those who want to secure executive positions in The Americas.

The IMBA program incorporates these unique features:

- Twelve months of courses offered in six-week and three-week terms
- Day-time classes five days per week
- Global and multicultural perspective throughout
- International internships for U.S. students (U.S. for international students)
- International study components

For more detailed information about the IMBA program, please contact the program director, at (305) 348-6880 or by email imba@fiu.edu

### Global (e)MBA for Managers in The Americas

The Global (e)MBA is designed to give experienced business professionals a focused, convenient, and intensive MBA experience that provides a thorough and in-depth understanding of what it will take for business enterprises to succeed in the highly-competitive, technology-enabled and fast-paced global economy of the 21st century. It is structured specifically to meet the needs of managers who now work full-time in companies in Latin America or in the Latin American offices of multinational corporations. Because it combines brief residency sessions in Miami with Internet-facilitated instruction, it offers a convenient way for participants to earn their MBA while continuing to fulfill their ongoing work and travel commitments throughout The Americas.

The Global (e)MBA builds on those features of our MBA offerings which have proven to be particularly valuable to managers in The Americas, emphasizing the strategic and tactical issues facing Latin American business operations within a global context and the ways recent developments like e-commerce, global supply chain management, and strategic alliances can be used for competitive advantage.

Faculty in the program offer their own unique perspectives based on their international educational and consulting experiences, their work with the many multinationals whose Latin American headquarters are in Miami, and their familiarity with the largely Latin and international student body at the university itself.

A top-notch curriculum, expert faculty, and the diversity of the participants themselves help ensure that the Global (e)MBA program creates a rich learning environment for everyone involved. Key features of the program include—

- It’s an intensive, thirteen-month program of study.
- It capitalizes on faculty and participants’ varying perspectives, backgrounds, and business experiences globally and in Latin America.
- It combines five one-week residency sessions in Miami with Internet-based coursework and team projects.
- Its capstone, entrepreneurial strategy simulation, exclusively designed for the MBA program, culminates in the presentation of business proposals to venture capitalists.
- It provides a high level of personal service, including individual instruction and leadership development.

For more information, prospective applicants should contact the program manager at (305) 348-6331 or email webemba@fiu.edu

### Master of International Business (MIB)

The Master of International Business (MIB) degree is an eight-month program designed for students who want to pursue a career in this dynamic global business environment. Specifically it is tailored to meet the needs of business professionals who want to participate in a U.S.-based graduate business program that provides a global perspective; who have an undergraduate business degree and are in the early stages of their professional careers; who have good English language skills but want to improve their fluency in a business context; who plan to return to work in their native countries, and who expect to assume progressively higher levels of management responsibility in their firms.

The global character of the MIB program is inherent in its curriculum and in the multinationality of the students enrolled in it. Because they move through the program as a group, students continually share and learn from their diverse perspectives and experiences. In addition to the international business expertise of its faculty, the program features lectures and seminars by multinational, foreign, and U.S.-based corporate business leaders. Its key features include—

- An intensive graduate business curriculum that can be completed in 8 months
- A focus on the emerging global system and its multinational business implications
- An emphasis on information technology (IT) management and e-commerce
- A collaborative, team-based, and action-learning environment
- A high level of personal service and support

MIB students also benefit from studying in South Florida, particularly since Miami is a major center for international trade and finance and a...
 gateway linking the Americas to the world.

For more information about this program, please contact the program director at (305) 348-3279 or by email
mb@fiu.edu

Ph.D. Program

The College of Business Administration offers a Ph.D. in Business Administration. The objective of this degree program is to prepare students for a career in academia by building their understanding of the substantive domains and literature within their selected areas of concentration. It provides them with the methodological and analytical tools required for executing research and creating knowledge. It develops their skills in formulating, conducting, and communicating quality research. In the process, it also fosters their ability to teach effectively.

The Ph.D. program typically requires four years of full-time study: two-and-a-half years of coursework and summer projects and a year-and-a-half of dissertation research. Students will take a minimum of 16 courses (with a minimum of six courses in their chosen area of concentration). Students also will complete summer research projects under faculty supervision.

Areas of Concentration

Information Systems
Marketing

Admission Requirements

All qualified students are encouraged to apply to the program, regardless of their sex, age, race, color, creed, handicap, marital status, or national or ethnic origin. Applications are accepted from prospective students with a broad variety of educational backgrounds, including areas like business, liberal arts, and the sciences. Those students selected for the Ph.D. program must demonstrate strong evidence of ability, scholarly interest, and success. Applicants should submit the following:

1. A completed application form and processing fee.
2. Three letters of recommendation.
3. Official transcripts from all institutions in which the applicant has completed any undergraduate and graduate coursework. Applicants are expected to have at least a 3.0 GPA in their graduate coursework.
4. A report from the Educational Testing Service giving the applicant's score on the Graduate Management Admissions Test (GMAT). Entering students are expected to score a minimum of 560 on the GMAT.
5. A formal statement of purpose for seeking the doctoral degree and specific reasons for applying to Florida International University.
6. If applicant is an international student whose native language is one other than English, an official report of his or her score on the TOEFL from the Educational Testing Service. A minimum score of 570 (230 on computer-based test) is expected. Such applicants also should review the "General Admission Requirements for Foreign Students" in the "Admission" section of this catalog.

The College admits a new class of doctoral students only during the Fall semester of even-numbered years. Complete applications must be received by March 1 of even-numbered years. Acceptance decisions typically will be made in April of those years.

Applicants are considered once all the required documents have been received.

Degree Requirements

General degree requirements for all candidates for a Ph.D. in Business Administration include:

1. Successful completion of all required coursework.
2. Successful completion of a comprehensive examination at the end of this coursework.

Financial Aid

Applicants to the doctoral program may request financial aid by completing the appropriate form. Stipends requiring a mixture of research and teaching are available. These stipends may include both a cash award and a tuition waiver, depending upon the applicant's qualifications.

Note: The programs, policies, requirements, and regulations listed in this catalog are subject to continual review in order to meet the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the "General Information" section of this catalog for the University's policies, requirements, and regulations.
School of Accounting

Mortimer Dittenhofer, Professor and Director
Rolf Auster, Professor
Delano H. Berry, Lecturer
Doria Bonham-Yeaman, Associate Professor
Lewis F. Davidson, Professor
Manuel Dieguez, Instructor
Donald W. Fair, Instructor and Associate Dean
Georgina Garcia, Instructor
Delano Gray, Instructor
Rosalie C. Hallbauer, Associate Professor
Harvey S. Hendrickson, Professor
David Lavin, Associate Professor
Myron S. Lubell, Associate Professor and Director, E.M.S.T. Program
David Manry, Assistant Professor
Kenneth S. Most, Professor Emeritus
Robert R. Oliva, Professor
Felix Pomeranz, Professor
Leonardo Rodriguez, Professor
Ena Rose-Green, Assistant Professor
Clark Wheatley, Assistant Professor
John Wrieden, Senior Lecturer
Harold E. Wyman, Professor

Purpose

The mission of the School of Accounting is:

- To provide students with an up-to-date education in professional accounting with due attention to its quality and timeliness in light of a marketing and regulatory environment continually being affected by rapid changes in technology.
- To provide the professional community in government, industry, and public accounting with graduates who are exceptionally well qualified professionals at various levels and who will have mastered the techniques necessary to manage in a climate of dynamic change.
- To create a positive climate for students to develop their ethical value system and a commitment to life-long learning.
- To promote pure, applied, and instructional research which expands the boundaries of knowledge, supports the work of practitioners, and welds the latest research results to the latest teaching techniques.
- To support and recognize the development of the faculty regarding their teaching, research and service responsibilities.

- To support the accounting and other professions in South Florida and elsewhere with life-long learning via short courses, conferences, and published materials designed to hone practitioners’ skills in the latest technical and professional developments and in recognizing environmental trends that may affect future practices.
- To provide meaningful knowledge of professional accounting concepts and information to other academic and professional disciplines.
- To support the mission and objectives established by the College of Business Administration and to foster the design and implementation of the University’s strategic and tactical plans.

Master’s Degree Programs

The School of Accounting offers two graduate degree programs: Master of Accounting and Master of Science in Taxation. The programs are designed for students who have completed an undergraduate degree in accounting, or the equivalent, from a regionally accredited college or university. The Director of the School of Accounting will determine the equivalency of students’ undergraduate degrees.

Students whose undergraduate degrees are in majors other than accounting will be required to make up for any business and/or accounting deficiencies. The Director of the School must approve programs of study for students seeking to correct such deficiencies.

All students taking graduate accounting and tax courses must be fully admitted to one of the graduate accounting programs or have written permission from the Director of the School. Registration for all such course work must be made through the appropriate College advisor, whose signature, along with the School's stamp, must be attached to the registration packet.

Graduate students can pre-register during a two-week period beginning three weeks before the official University registration period.

Special Program Requirements

A student with a degree in business who is admitted into the Master of Accounting (M.Acc.) program may be required to complete up to seven accounting pre-core courses (21 credit hours), to be selected from the following three credit-hours courses:

- ACG 4101 Financial Accounting I
- ACG 4111 Financial Accounting II
- ACG 4651 Auditing
- ACG 4401 Accounting Systems
- ACG 4341 Management Accounting and Control

BUL 4320 Business Law I
TAX 4001 Income Tax

A student with a non-business degree who is admitted to this program will be required to complete, in addition to the pre-core courses listed above, the pre-core courses for the Evening M.B.A. program. The exception is BUL 6810 (Legal Environment of Business), for which MAN 6726 (Strategic Management) must be substituted.

Master of Accounting (M.Acc.)

The Master of Accounting degree program prepares students for a career in accounting. For those already pursuing a career or who are seeking to change careers to one in accounting, the program offers excellent preparation as well. The program satisfies the 30 semester hours beyond a Bachelor’s degree required for the CPA examination.

Depending on a student’s interests, he or she can select concentrations that will prepare him or her for a variety of careers:

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Career</th>
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<tbody>
<tr>
<td>Financial</td>
<td>Independent</td>
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<tr>
<td>Accounting/</td>
<td>Accountant</td>
</tr>
<tr>
<td>Auditing</td>
<td>in public accounting</td>
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<tr>
<td>Systems</td>
<td>Accounting systems,</td>
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<tr>
<td></td>
<td>consultant, auditor,</td>
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<tr>
<td></td>
<td>corporate officer, or</td>
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<tr>
<td></td>
<td>public accountant</td>
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<tr>
<td>Internal Auditing</td>
<td>Internal auditor,</td>
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<td></td>
<td>industry or government</td>
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<tr>
<td>Corporate</td>
<td>Internal accountant</td>
</tr>
<tr>
<td>Management</td>
<td>or corporate officer</td>
</tr>
<tr>
<td>Accounting</td>
<td></td>
</tr>
</tbody>
</table>

Students interested in sitting for the CPA examination must include law and 36 hours of accounting as required by the Florida Statute.

Degree Requirements

Students pursuing a M.Acc. with any of the concentrations listed above must complete the following requirements:

Accounting Core

- ACG 6135 Seminar in Financial Accounting Theory I
ACG 6657 The Environment of Accounting
ACG 6437 Advanced Accounting Systems

Unless approved in advance by the Director of the School, these required courses cannot be transferred.

Electives
Electives (seven courses) must be selected from the following three groups of courses:

1. No more than two courses from this list:
   TAX 6065 Tax Research Practice and Procedure
   TAX 6105 Taxation of Corporations I
   TAX 6205 Partnership Taxation

2. If sitting for the CPA examination, students must take three courses, including any 6000-level auditing course, and these two courses:
   BUL 6831 Business Law II
   TAX 6015 Taxation of Corporations and Partnerships

3. Additional 6000-level courses, approved by the Director, School of Accounting, with a minimum of four courses (12 credit hours) in a single concentration selected from a) financial accounting/auditing; b) systems; c) internal auditing; or d) corporate/management accounting.

Master of Science in Taxation (M.S.T.)

The Master of Science in Taxation program prepares students for entry and advancement in the specialized area of taxation. The program satisfies the 30 semester hours beyond a Bachelor's degree required for the CPA examination.

The Director of the School of Accounting must approve students' programs of study.

Degree Requirements
Tax Core 12 hours
Electives 18 hours

Tax Core
   TAX 6065 Tax Research Practice and Procedure
   TAX 6105 Taxation of Corporations I
   TAX 6405 Estate and Gift Taxation
   TAX 6875 Current Developments in Taxation

Electives
Six additional 6000-level courses approved by the Director, School of Accounting, three of which must be tax courses (excluding TAX 6015, TAX 6005, and TAX 6935).

Note: Students admitted to the M.S.T. program who wish to sit for the CPA exam and who are required to complete deficiencies in undergraduate accounting by completing the accounting pre-core courses are not required to take TAX 4001, Income Tax, as part of the Accounting Pre-Core.

For additional information about the program, contact Robert R. Oliva, program manager, (305) 348-2582 or email olivar@fiu.edu.

Florida CPA Requirement

Completing a Bachelor of Business Administration with a concentration in Accounting does not alone meet the Florida State Board of Accuntancy requirements for the CPA exam. With a carefully-planned program of study, a student who earns either a M.Acc. or an M.S.T. will be qualified to sit for the CPA exam and, upon completing it successfully, will be certified in the State of Florida. There is no additional experience requirement.

Executive Master of Science in Taxation (E.M.S.T.)

The Executive Master of Science in Taxation (E.M.S.T.) degree program is a special, two-year program tailored to address the needs of working professionals who wish to obtain the degree in a flexible time span. The program, which is a tuition-plus-fee offering, is also designed to satisfy the additional 30 semester hours beyond the Bachelor's for the CPA examination.

For additional information about this program, contact the program director, Myron S. Lubell, at (305) 919-5514, or be email lubellm@fiu.edu.
Decision Sciences and Information Systems

Christos P. Koulamas, Professor and Chair
Diwakar Barua, Associate Professor
Joyce J. Elam, Professor, James L. Knight Eminent Scholar, and Dean
Irma Becerra Fernandez, Assistant Professor
Sushil K. Gupta, Professor
Joseph T. King, Lecturer
Kuldeep Kumar, Professor and Ryder Eminent Scholar
George J. Kyparisis, Professor
Yair Levy, Instructor and Online Learning Project Manager
Tomislav Mandakovic, Professor
Ligia Mintchev, Lecturer
Kenneth E. Murphy, Assistant Professor
Jose Noguera, Assistant Professor
Manoel Oliveira, Instructor and Director of Technology
Steve Simon, Assistant Professor
Larry A. Smith, Associate Professor
Paul Van Fenema, Visiting Lecturer
Tei-Wei Wang, Visiting Lecturer
Nicole Wishart, Instructor
Steve H. Zanakis, Professor
Peter J. Zegan, Instructor

Purpose

With the rapid decrease in information technology cost/benefit ratios, the advancement of graphical user interfaces, and the development of the Internet, information systems have become ubiquitous and strategic.

Students in the information systems concentrations use new or existing research methods to help understand the ways in which contemporary organizations design, employ, and manage information systems.

Students in our graduate programs learn the intellectual frameworks and methods used in areas like systems analysis and design (including object-oriented applications), database management, decision support systems (including data warehousing), global electronic commerce, enterprise-wide information systems, and information systems management.

The Department of Decision Sciences and Information Systems offers a Master of Science in Management Information Systems (M.S.M.I.S.) and a concentration in the Ph.D. program.

Master of Science in Management Information Systems (M.S.M.I.S.)

The Master of Science in Management Information Systems (M.S.M.I.S.) program is a selective, limited-access, tuition-plus-fees program in which students proceed as a cohort through a lock-step curriculum designed to maximize their learning experience.

The program is structured in six “blocks” or sessions, with each session consisting of two courses and lasting about eight weeks. Classes meet on Saturdays for a full day. Students in this program are required to own or have access to a laptop computer with wireless capability. To complete this 36 credit-hour program successfully, students must maintain a B average (3.0 GPA).

For additional information, please contact the program manager at (305) 348-2430 or visit www.fiu.edu/~msis

MIS Concentration in the Ph.D. Program

The Department of Decision Sciences and Information Systems offers a Management Information Systems (MIS) concentration in the doctoral program in Business Administration. The concentration requires completion of the following six courses (18 credit-hours):

- ISM 7935 Foundations of IS Research
- ISM 7306 Seminar on Managing Information Resources
- COP 7545 File and Database Systems
- ISM 7126 Systems Analysis and Design
- ISM 7406 Decision Support Systems
- ISM 7xxx Enterprise Information Systems

Please contact the Department Chair for further requirements and details.
Finance

Emmanuel Roussakis, Florida
International Bankers Association
Professor of Finance; Director,
Certificate Programs in Banking, and Chair
Gary Anderson, Associate Professor
Joel Barber, Associate Professor
Robert Bear, Professor
Gerald O. Bierwag, Ryder
Professor
Chun-Hao Chang, Associate Professor
Robert T. Daigler, Professor
Krishnan Dandapani, Professor
Maria E. de Boyrie, Assistant Professor
Shahid Hamid, Associate Professor
and Director, M.S.F. Program
James Keys, Instructor and Associate
Director, M.S.F. Program
Raul Moncarz, Professor and Vice
Provost, Academic Affairs
Simon Pak, Associate Professor and
Associate Director, Center for
Banking and Financial Institutions.
Ali M. Parhizgari, Professor
Arun Prakash, Professor
Rajeswar Sirpal, Instructor
William Welch, Associate Professor
John S. Zdanowicz, Professor and
Director, Center for Banking and
Financial Institutions, and Director,
Jerome Bain Real Estate Institute

Purpose

The Department of Finance's graduate program seeks to extend and deepen students' understanding of finance in both its theoretical and practical dimensions. It primarily serves students with an undergraduate business degree who wish to secure additional expertise in the discipline.

The Department offers a Master of Science in Finance (MSF) degree that prepares graduates to analyze and solve problems related to obtaining and using real and financial assets and liabilities. The curriculum grounds students in the areas of banking, corporate finance, investment, portfolio management, financial risk management, financial engineering, financial markets, institutions, and international finance. It provides them with concepts and applications framed within the most current developments in these fields.

The Department also offers a Finance Concentration in the M.B.A. program. Contact the Graduate Advising Office for details.

Master of Science in Finance
(M.S.F.)

To earn a Master of Science in Finance degree, students must complete a minimum of 33 semester hours (11 courses)

Foundation Courses* 12 hours
Finance Core Courses 15 hours
Finance Electives 9 hours
Related Electives 9 hours

*Foundation Courses may be used as Finance and/or Related Electives.

The 33 credit-hour requirement may be reduced to 30 hours for students who have an accredited Master's degree in Business Administration (M.B.A.). In addition, students may be allowed to transfer one graduate course from an accredited university even if they did not secure an advanced degree.

Students may need to take a number of Foundation Courses if their prior education does not reflect the required base of knowledge. Students with a recent Bachelor's degree in Business Administration from a regionally-accredited university would be waived from most of the foundation Courses.

The Foundation Courses cover a body of knowledge that includes financial and cost accounting, financial reporting, economics, statistics, quantitative methods, and corporate finance. Should the student be deficient in any of these subjects, he/she would be required to take the appropriate Foundation Course. All students must take FIN 6428, Corporate Finance, unless they have completed at least two undergraduate corporate finance courses with a grade of "B" or above.

The following courses are required for the M.S.F. degree:

Foundation Courses (unless waived)

ACG 6175** Financial Reporting and Analysis
ECF 7005 Managerial Economics
FIN 6456 Quantitative Methods in Financial Analysis
FIN 6428** Corporate Finance

**ACG 6026 (Accounting for Managers or equivalent is a prerequisite to ACG 6175/FIN 6428.

Finance Core Courses (15)

FIN 6246 Financial Markets and Institutions
FIN 6487 Financial Risk Management
FIN 6516 Security Analysis
FIN 6644 Global Financial Strategy

FIN 6804 Theory of Finance

Finance Electives (9)

Students must complete 9 credit-hours of approved 6000-level Finance Electives.

Related Electives

Students must complete 9 credit-hours of approved 6000-level Related Electives from Business, Computer Science, Economics or a related field. Students will be permitted but not required to select one area of concentration.

Students should obtain the approval of the M.S.F. program advisor before choosing Finance and/or Related Electives. The minimum passing grade for any FIN 6000 level course is "B-". The minimum passing grade for all other required courses is "C." M.S.F. students must maintain an overall grade point average (GPA) of 3.0 as well as a 3.0 GPA in all FIN 6000 level courses.

For more information, contact the program advisor (305) 348-2727.
Management and International Business

Karl O. Magnusen, Professor and Chair
Constance S. Bates, Associate Professor
Laquita Blockson, Assistant Professor
Deborah Cohen, Associate Professor
Gary Dessler, Professor
Herman Dorsett, Associate Professor
Dana L. Farrow, Professor and Chair
Earnest Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Richard M. Hodgetts, Professor
Robert Hogner, Associate Professor
Royland Jarrett, Instructor
K. Galen Kroeck, Professor
Jan B. Luytjes, Professor
Martia Luytjes, Instructor
Modesto A. Maidique, Professor and University President
J. Randall Martin, Instructor
Sherry Moss, Associate Professor and Faculty Coordinator, Executive M.B.A. Program
Stephen L. Mueller, Assistant Professor
Karen Paul, Professor
Eleanor Polster, Instructor and Graduate Coordinator
Leonardo Rodriguez, Professor
Donald Roomes, Instructor and Director, Weekend B.B.A. Program
Philip Shepherd, Associate Professor
Ronnie Silverblatt, Associate Professor
George Sutija, Associate Professor
Anisy S. Thomas, Associate Professor
Enzo Valenzi, Professor
Mary Ann Von Glinow, Professor and Director, CIBER

The Department of Management and International Business offers concentrations in International Business and Human Resource Management within the M.B.A. program. Contact the Graduate Advising Office for additional information.

Marketing

J.A.F. Nicholls, Professor and Chair
Peter R. Dickson, Eminent Scholar in Marketing, Knight Ridder Center for Excellence in Management
Ira Dolich, Lecturer
Sally Gallion, Assistant Dean
Jonathan N. Goodrich, Professor
Barnett A. Greenberg, Professor
Judy Harris, Assistant Professor and Burdines Professor of Retailing
Carl Kranendonk, Instructor
Walfried Lassar, Associate and Barsky-Greenstein Professor
Tiger Li, Associate Professor
Paul Miniard, BMI Professor of Marketing
Michael S. Munro, Instructor
Marta Ortiz, Associate Professor
Lynda Raheem, Instructor and Assistant Dean
Louis Remmer, Instructor
H. Paul Root, James K. Batten Eminent Scholar in Strategic Management, Lecturer, and Director of the Knight Ridder Center for Excellence in Management
Sydney Roslow, Professor Emeritus
Bruce Seaton, Associate Professor
Kimberly Taylor, Associate Professor
John Tsallikis, Associate Professor

The Department of Marketing offers concentrations in Marketing in both the M.B.A. and the Ph.D. programs. Contact the Department Chair for additional information.
Course Descriptions

Definition of Prefixes:
ACG - Accounting; BAN - Banking; BUL - Business Law; CGS - Computer and Information Systems; ECO - Economics; FIN - Finance; GEB - General Business; ISM - Information Systems Management; MAN - Management; MAR - Marketing; QMB - Quantitative Methods in Business; REE - Real Estate; SPC - Speech; TAX - Taxation; TRA - Transportation.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

Departmental or School/College Designation:
AC - School of Accounting
AS - College of Arts & Sciences
BA - College of Business Administration
DS - Decision Sciences and Information Systems
EC - Economics
FI - Finance
MA - Management and International Business
ME - Marketing
MS - Mathematical Sciences
TD - Theatre and Dance


ACG 5256 International Dimensions of Accounting and Auditing (AC) (3). Review of and reasons for variations in accounting and auditing practices throughout the world; explore initiatives undertaken to promote transparency, harmonization, and standardization to facilitate understanding of financial statements prepared under various conventions. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5307 Advanced Managerial Accounting (AC) (3). In-depth study of determination and control of production costs; budgetary control; CVP analysis; and alternative methods of performance measurement and analysis. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5386 Controllership (AC) (3). Study of controllership function; role of controller in planning, accounting for, and evaluating company performance; relationship with internal audit-
ACG 5936 Special Topics in Accounting and Auditing (AC) (3). For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Written Permission of the instructor, accounting certificate program advisor, School Director, and Dean.

ACG 6026 Accounting for Managers (AC) (3). Presentation of the nature, techniques and uses of accounting from the perspective of people who manage businesses and investments in businesses. Covers both financial and management accounting. Not open to M.S.T. or M.Acc. students. (F,S,SS)

ACG 6135 Seminar in Financial Accounting Theory I (AC) (3). A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisite: Baccalaureate in accounting or equivalent and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6145 Seminar in Financial Accounting Theory II (AC) (3). A continuation of ACG 6135, with emphasis on the problems of accounting for price-level changes and other current issues. Prerequisite: ACG 6135 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6175 Financial Reporting and Analysis (AC) (3). Comprehensive treatment of analysis of financial statements as aid for decision making; looks at current state of financial reporting practices and impact of published statements on economic systems. Prerequisites: ACG 6026, FIN 6428 or equivalent. Not open to M.S.T. or M.Acc. students. (F,S,SS)

ACG 6205 Financial Accounting III (AC) (3). Underlying concepts and ethical, regulatory and business environment of financial reporting, with emphasis on accounting for partnerships, international corporations, and business combinations. Prerequisite: ACG 4111 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6245 Accounting and Auditing Compliance Issues (AC) (3). Corporate, government and public accounting compliance with response to institutional and political regulation; attention to compliance in specialized industries such as health care, transportation, financial institutions real estate and construction. Prerequisite: ACG 4111 or equivalent, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisite: ACG 6026 or equivalent, and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6295 Financial Accounting IV (AC) (3). The application of accounting principles in the production of information for selected topics in financial statements with extensive examination and evaluation of FASB and international standards of accounting. Prerequisites: ACG 6205 and admission to a graduate program in the School of Accounting or permission of the Director.

ACG 6345 Management Accounting and Control (AC) (3). Accounting concepts and techniques useful in evaluation, planning, organization and control of a business enterprise, with attention to methods of accounting for production activities; ethics in management accounting. Prerequisites: ACG 4111 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

ACG 6346 Seminar in Managerial Accounting I (AC) (3). Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisite: ACG 4341 or ACG 6026, and admission to a graduate program in the School of Accounting or permission of the School Director. (F)

ACG 6356 Seminar in Managerial Accounting II (AC) (3). A study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationships to internal audit function. Prerequisite: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6385 Managerial Control and Controllership (AC) (3). Control methods for management; control structure, planning and forecasting for budgets; the functions of con-trollership, including cash management, risk management, investments, tax administration and records management. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6405 Seminar in Accounting Information Systems I (AC) (3). Accounting information systems security and control and legal and ethical compliance; control of computer failure and abuse and compliance with laws, regulations, and standards. Computer usage required. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

ACG 6415 Seminar in Accounting Information Systems II (AC) (3). Accounting information systems for strategic use in the management of competitive enterprises; budgeting, performance measurement, and cost accounting for generating strategic information. Computer usage required. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6437 Advanced Accounting Systems (AC) (3). Development and control of information systems for accounting, emphasis on new microcomputer technology, software engineering, methods of data processing and database management systems. Prerequisites: ACG 4401 or equivalent and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6445 Accounting Information Systems Analysis and Design (AC) (3). Accounting applications of information systems analysis and design concepts, methods, and tools;
ACG 6455 Accounting Information Systems Technology, Control and Audit I (AC) (3). Accounting applications, control, and audit of large computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (SS)

ACG 6456 Accounting Information Systems Technology, Control and Audit II (AC) (3). Accounting applications, control, and audit of small computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

ACG 6506 Governmental and Institutional Accounting (AC) (3). Budgeting, accounting, and reporting standards and practices for government and other not-for-profit entities. Prerequisite: ACG 4111 and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S)

ACG 6515 Advanced Governmental Accounting (AC) (3). Treats the developing concept of consolidated financial statements for governments. Also covers advanced areas of accounting, e.g., concepts, investment accounting, grant accounting, and pension accounting. Prerequisites: ACG 6505, ACG 6584, admission to graduate program in School of Accounting or permission of School Director.

ACG 6517 Audit of Governmental Entities (AC) (3). Covers methods of audits of governments by independent public accountants, coordination with internal audit staffs; describes audits of governments by internal auditors (audits of fidelity, efficiency and effectiveness); covers current single audit concept. Prerequisites: ACG 6505, admission to the graduate program in the School of Accounting, or permission of School Director.

ACG 6625 EDP Auditing Concepts (AC) (3). Understanding and application of concepts and procedures of auditing computer information systems; analysis, testing, and documentation of computer security and controls for management and financial statement reports. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6655 Auditing and Accounting Systems (AC) (4) Standards and procedures of auditing, ethics and responsibilities of auditors, audit evidence, reporting, international standards; design and control of accounting information systems. Prerequisites: ACG 4111 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with a undergraduate accounting degrees.

ACG 6657 The Environment of Accounting (AC) (3). Economics and scope of accounting practice in context of self-regulated profession, public policy constraints, complex business structures and innovative transactions, and rapidly changing information technology with extensive reference to business periodicals and on-line databases. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

ACG 6675 Internal Auditing (AC) (3). This course examines auditing in depth as a professionalized discipline for reviewing testing, and evaluating the financial and the operational activities and controls of an economic entity. Focus will be directed to private sector profit seeking entities as well as governmental and other nonprofit organizations. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (F,S)

ACG 6676 Advanced Internal Auditing (AC) (3). Special topics in internal auditing such as forensic auditing, analytical auditing, management consulting, work with external auditors, ethics, multinational aspects, evaluation methods, quality control, new technologies and recent research. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

ACG 6677 Applied Internal Auditing (AC) (3). The expansion of the internal audit process into such areas as administrative and support functions; line functions such as research, sales, and production; and special areas such as compliance, budgeting and controls. Course is taught by outside lecturers. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (S)

ACG 6696 Current Issues in Auditing (AC) (3). Professional and technical aspects of auditing practice; introduction to SEC; ethics and legal responsibilities; emergence of non-public practice; public expectations and professional reality; the impact of technology; international auditing; recent auditing developments. Prerequisite: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6835 Behavioral Accounting (AC) (3). Study of the effect of the process and products of accounting and of the relation of changes in the process and products to individual and group behavior; consideration of ways in which accounting can aid individuals and organizations to attain their goals. Prerequisites: ACG 4111 and 4341 or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S)

ACG 6845 Accounting and Quantitative Methods (AC) (3). Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: QMB 3150 and ACG 4401, or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6875 Evolution of Accounting Thought (AC) (3). The cultural origins of accounting and its traditional controversies, from pre-historic time onward, and in an international context. Prerequisites: Admission to graduate program in School of Accounting or permission of School Director.

ACG 6885 Accounting Research and Reporting (AC) (3). Examine the projects relating to historical and current problems in public accounting practice, and preparation of appropriate reports in oral and written formats,
under a variety of professional settings. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6905 Independent Study in Accounting (AC) (1-3). Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6935 Special Topics in Accounting (AC) (1-3). Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.


ACG 7177 Seminar: Accounting Information and Security Prices (AC) (3). An in-depth examination of accounting information and security prices within capital markets theory, including a thorough examination of the cross-sectional properties and time-series properties of accounting numbers and the importance of research findings and new developments in research methodology. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7436 Seminar: Information Value and Agency Research Accounting (AC) (3). An in-depth examination of the research paradigm and the associated empirical research in accounting and auditing. Examined are the issues of information value, risk aversion, risk sharing contracts, as well as accountability from the standpoint of monitoring contracts. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7695 Seminar: Contemporary Research in Management Accounting and Auditing (AC) (3). A broad overview of classical and contemporary empirical research in managerial accounting and auditing including budget and performance review, decision making, information analysis, professional judgment, sampling problems, audit risk, etc. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7836 Seminar: Behavioral Research in Accounting-Individual Behavior (AC) (3). An in-depth examination of the relationship of cognitive psychology, cognitive models of human judgment, decision theory and accounting information. Emphasis is placed upon the human processing of accounting information, the decision value of information, and the development of decision aids or heuristics. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7837 Seminar: Behavioral Research in Accounting-Human Groups and Systems (AC) (3). The multifarious behavioral relationships of groups within the formal and informal organizational structure are examined with respect to performance measurement (efficiency and effectiveness), accountability, planning and control of the development of decision support systems. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7866 Seminar: Empirical Research Methodology and Paradigms in Accounting (AC) (3). Study of research design, methods of data collection and analysis and problems of measurement in accounting research. Empirical research studies in accounting are integrated throughout to illustrate and analyze the structural problems of research design as well as the strengths and weaknesses of various acceptable paradigms. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7887 Research Forum and Workshop (AC) (1). Regularly scheduled workshop at which visiting scholars as well as faculty and doctoral candidates present and evaluate research papers. Candidates are expected to participate in discussions, act as discussants and present their own research for critique. Sessions are held for structuring and brainstorming research projects in the formative stages as well as for presenting completed efforts. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7888 Seminar: The Philosophy of Science, Theory Construction, and Verification in Accounting (AC) (3). An examination of knowledge, theories, scientific explanation and prediction as related to the social sciences. Various theories of accounting are critically examined from the standpoint of theory construction and verification in the philosophy of science. Prerequisite: Permission of Doctoral advisor in Accounting.


ACG 7896 Accounting Research Methods on Capital Markets. (AC) (3). An advanced accounting graduate course in current time series methods used to analyze capital and other time-related financial markets. This course is designed for Ph.D. students in accounting and business who already have advanced statistical and financial training, and serves as an introduction to other doctoral courses. Prerequisite: Permission of Ph.D. advisor.

ACG 7938 Seminar: Special Topics in Accounting Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of accounting. Prerequisite: Permission of doctoral advisor in Accounting.

BUL 5661 Law for Accountants (AC) (3). A survey of select topics of direct interest to accounting students, including contracts, sales, agencies, partnerships, corporations. Prerequisite: Permission of Accounting certificate program advisor.

BUL 5662 Accountant's Liability (AC) (3). Overview of accountant exposure to private and public sector liability suits, independent in auditor engagements, securities regulations and other state and federal laws of chief concern to accountants. Prerequisite: Permission of Accounting certificate program advisor.

BUL 6810 Legal Environment of Business (AC) (3). Studies the importance of law and legal institutions on commerce workings of administrative law; various aspects of employment legislation and other areas of legal
environment of business. Prerequisite: Permission of accounting certificate program advisor.

BUL 6651 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisite: Admission to graduate program in School of Accounting or permission of School Director.

BUL 6830 Survey of Business Law (AC) (3). Overview of substantive and procedural aspects of contract law, U.C.C., partnerships and corporations, accountant’s liability, and other aspects of government regulation of business. Prerequisite: Admission to graduate program in School of Accounting, or permission of School Director. Not open to those with undergraduate accounting degrees.

BUL 6831 Business Law II (AC) (3). Substantive issues and principles of law including agency, partnership and corporation law, commercial paper, antitrust, employment, administrative, environmental and computer law; ethical issues in business law. (F, S, SS)

BUL 6850 International Business Law (AC) (3). Analysis of legal problems facing the U.S. international and multinational businesses. Topics include the transnational research of economic regulation, international trade and investment, antitrust law, technology transfers, and securities law. (F, SS)

BUL 6906 Independent Study in Business Law (AC) (1-6). Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Admission to graduate program in School of Accounting or permission of School Director.

COP 7545 File and Database Management Systems (DS) (3). Fundamentals of database concepts and methodologies, including data representation, data modeling, and file organization. Prerequisite: Graduate standing. (on demand)

ECP 6705 Managerial Economics (EC) (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011. (F, S, SS)

ECP 6715 Macroeconomic Forecasting for Management (EC) (3). Business macroeconomic concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F, S, SS)

FIN 5418 Working Capital Management (FI) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 3424 or FIN 6428.

FIN 5495 Leasing and Mergers (FI) (3). Discussion-oriented course; will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisite: FIN 3424 or FIN 6428, or equivalent.

FIN 6246 Financial Markets and Institutions (FI) (3). Analysis of the characteristics and efficiency of the money markets and capital markets. Types of money market and capital market instruments, and the role of financial institutions in these markets. Prerequisite: FIN 6428.

FIN 6325 Current Issues in Commercial Banking (FI) (3). Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of the financial sector. Prerequisite: FIN 6326 or equivalent. (on demand)

FIN 6326 Commercial Banking (FI) (3). The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions. Prerequisite: FIN 6428.

FIN 6346 Credit Analysis (FI) (3). This course examines how the accounting framework is integrated with tools and techniques for the analysis and interpretation of financial statements. Evaluation of risk in domestic and foreign loans and the pricing of credit facilities. Prerequisite: FIN 6428.

FIN 6426 Financial Management Policies (FI) (3). Advanced theories and applications underlying financial decision making. Case studies and model building. Topics may include valuation, capital structure, dividend policy, restructuring, mergers and acquisition, corporate bankruptcy, agency theory, and initial public offerings. Prerequisite: FIN 6428.

FIN 6428 Corporate Finance (FI) (3). In-depth examination of asset, liability and capital structure management, with emphasis on valuation capital budgeting techniques; risk evaluation; working capital management, and methods of short-term, intermediate and long-term financing. Prerequisite: ACG 6026 or equivalent.

FIN 6436 Capital Budgeting and Long Term Resource Allocation (FI) (3). The theory of capital allocation at the level of the firm, and empirical findings. Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: FIN 6428.

FIN 6446 Competitive Strategy (FI) (3). Provision of tools for managerial decision making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure and competitive strategy.

FIN 6455 Financial Modeling and Forecasting (FI) (3). An introduction to Financial Modeling and Forecasting. Emphasis is on computer models and forecasting the financial variables. Prerequisite: Permission of instructor and FIN 6428.

FIN 6456 Quantitative Methods in Financial Analysis (FI) (3). Introduction to mathematical and statistical methods used in finance. The applications of computer techniques to financial management. Prerequisite: FIN 6428 or equivalent.

FIN 6487 Financial Risk Management - Financial Engineering (FI) (3). A survey of financial instruments used for financial risk management, including forwards, futures, options and swaps. Emphasis is on identification of financial risks and designing optimal risk management program. Prerequisite: FIN 6426 or FIN 6515.

FIN 6515 Securities Analysis (FI) (3). An analysis of securities and the organization and operation of their markets. The determination of the risk reward structure of equity and debt securities and their valuation. Special emphasis on common stocks. Other
topics include options, mutual funds and technical analysis. Prerequisite: FIN 6428.

FIN 6525 Portfolio Management (FL) (3). Practical and theoretical problems associated with the techniques of optimal portfolio selection, construction, and revision. The portfolio objectives of individuals, corporations and funds. Measurement of portfolio performance and related empirical evidence. The role of computers in portfolio management. Prerequisite: FIN 6515.

FIN 6538 Financial Futures and Fixed Income Investments (FL) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Valuation, hedging, speculative activity, and other futures related risk management issues are discussed. The varieties of fixed income securities and their default risk. The valuation of fixed income securities and their use in the investment and risk management. Prerequisite: FIN 6246 or FIN 6515.

FIN 6625 International Bank Management (FL, MA) (3). Management of the international banking function; setting goals and developing strategies, establishing an organizational structure and managing operations. International banking services. Foreign lending, risks, restraints, and portfolio considerations. International banking trends and implications for regulation. Prerequisite: FIN 6428.

FIN 6626 International Bank Lending Policies and Practices (FL, MA) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans. Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio. Prerequisite: FIN 6428.

FIN 6636 International Finance (FL, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. The relationships between world and capital markets and prospects for integration. The role of multilateral institutions, multinational corporations, states, and the structure of trade in the international short and long term capital flows. The development of financial centers. Prerequisite: FIN 6428 or equivalent.

FIN 6644 Global Financial Strategy (3). Aspects of strategic financial environment and management of firms that operate in a global arena; to include recent developments in financial strategy, international trade and economic decision making. Prerequisite: FIN 6428.

FIN 6645 Global Finance for Executives (FL) (3). Deals with the theoretical and empirical aspects of the financial management of firms that operate in an international business environment. Prerequisite: FIN 6428.

FIN 6656 Latin American Financial Markets and Institutions (3). An evaluative overview of the money and capital markets in Latin America. Topics include review of the most recent literature on regulation and deregulation, globalization, regional markets, privatization, banking innovations, the role of foreign banks, and currency boards in Latin America. Applicable cases will be discussed. Prerequisite: FIN 6428.

FIN 6804 The Theory of Finance (FL) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6428 or equivalent.

FIN 6906 Independent Study in Finance (FL) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 6915 Master's Project in Finance (FL) (1-6). An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. The course should be taken during the last half of the student's graduate program. Consent of faculty tutor and Department Chairperson required.

FIN 6936 Special Topics in Finance (FL) (1-3). For groups of students who desire intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

FIN 6xxx International Capital Markets (FL) (3). An exhaustive study of the current institutional aspects of the financial and monetary systems of the developed and emerging markets. Topics will include detailed discussions of capital markets including stock exchanges and the international asset pricing models. Prerequisite: FIN 6428 or permission of the instructor.

FIN 6xxx Finance Internship (FL) (1-3). Student placement within a financial institution, business firm or other organization for the purpose of providing practical experience to supplement theoretical classroom instruction. Periodic reports and conferences required. Permission of the instructor and department chairperson.

FIN 7527 Seminar in Investments (FL) (3). Examines analysis and measurement problems of investments. Includes the application of statistical techniques, current theoretical issues and empirical literature. Prerequisite: Permission of the instructor.

FIN 7536 Seminar in Futures Markets (FL) (3). A comprehensive examination of the literature in futures markets. Emphasizes the structure and pricing of futures, and risk-management via hedging and arbitrage. Prerequisite: Permission of the instructor.

FIN 7606 International Corporate Finance (FL) (3). The study of topics of research interest to international financial decisions. Topics include foreign exchange risk, international financial markets, and foreign exchange market efficiency. Prerequisite: Permission of the instructor.

FIN 7807 Seminar in Corporate Finance (FL) (3). Familiarizes students with recent developments in finance theory. Includes such topics as the influence of leverage, uncertainty and the cost of capital, agency theory and related topics. Prerequisite: Permission of the instructor.

FIN 7808 Financial Theory I (FL) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of the instructor.
FIN 7809 Financial Theory II (FI) (3). This course focuses on the theory of financial decision-making under uncertainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of the instructor.

FIN 7810 Financial Theory III (FI) (3). This sequel to Financial Theory I and II focuses on microfinance. Discusses issues primarily in corporate finance such as effects of taxation, agency theory, and signaling theory. Prerequisite: Permission of the instructor.

FIN 7811 Seminar in Financial Markets and Institutions (FI) (3). Examines recent developments in economic and financial theories as applied to topics such as the structure of financial markets and the economics of information and financial institutions. Prerequisite: Permission of the instructor.

FIN 7812 Seminar in Options and Contingent Claims (FI) (3). An examination of the theories of option valuation and arbitrage pricing, and their applications to security analysis, portfolio management and financial instrument valuation. Prerequisite: Permission of the instructor.

FIN 7816 Seminar in Portfolio Theory (FI) (3). Examines investment and portfolio theory, with emphasis on the historical development of the literature in this area and the recent analytical and empirical work. Prerequisite: Permission of the instructor.

FIN 7818 Foundations of Financial Models (FI) (3). Introduction to mathematical and economic models underlying the development of modern finance theory. Includes discrete and continuous time models in finance using stochastic calculus. Prerequisite: Permission of the instructor.

FIN 7845 Statistical Methods in Finance I (FI) (3). Estimation and testing of various economic and financial models. Emphasis on econometric techniques to deal with various problems of single-equation models and introduction to simultaneous equation. Prerequisite: Instructor's permission.

FIN 7846 Statistical Methods in Finance II (FI) (3). Emphasis on econometric techniques and multivariate statistics as applied in finance. Includes simultaneous equation models, multiple discriminant analysis and factor analysis. Prerequisite: Instructor's permission.

FIN 7855 Financial Economics I (FI) (3). An advanced doctoral course covering selected advanced topics in Microeconomic foundations and other topics related to business. Emphasis will be on economics of uncertainty, agency problems, information and signaling. Prerequisite: ECO 7115 or Permission of the instructor.

FIN 7856 Financial Economics II (FI) (3). An advanced doctoral course covering selected advanced topics in the theory of macrofinance. Emphasis will be on financial intermediation. Prerequisite: ECO 7206 or Permission of the instructor.

GEB 7906 Independent Study for Doctoral Students (1-15). Supervised research projects determined by professor and student. May involve conferences, supervised reading, and reports. Consent of sponsoring professor and chairperson required. (On demand)

GEB 7916 Doctoral Research Project in Business (BA) (1-15). Intensive research project conducted during the summer following the student's first and second years of coursework. Each student develops his/her own research project under the supervision of a faculty member. Prerequisite: Graduate standing. (On demand)

GEB 7936 Doctoral Seminar in Business Administration (BA) (1). College colloquium series featuring presenters from various academic disciplines and businesses. (On demand)

GEB 7980 Doctoral Dissertation in Business Administration (BA) (1-15). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisite: Admission to Candidacy. (On demand)

GEB 7981 Dissertation Preparation (1-10). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by the end of the course. Prerequisite: Completion of TIER I courses. (On demand)

ISM 6045 Current Economic and Social Implications of Information Systems (DS) (3). Effects and implications of socioeconomic factors in the operation of information systems and interdependence with the legal and international business environment. Privacy and fraud; computer system purchase and lease contracts; economics of system design, selection and operation; electronic fund transfers and mail; international considerations. Prerequisite: MAN 6830 and MAN 3025. (S)

ISM 6106 Systems Analysis (DS) (3). A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives; identifying system boundaries and constraints; marshaling resources for achieving system objectives; analyzing the sub-components of the system and their respective objectives; and managing the system. Prerequisite: MAN 6830, CGS 3403, and COP 2210. (F)

ISM 6155 Information Systems Development (DS) (3). Concepts and methods used in the analysis and design of MIS. Feasibility study, system flow charting, data requirements analysis, data design, user friendly systems design. Systems design project. Prerequisite: MAN 6830. (F)

ISM 6156 Enterprise Information Systems Development (DS) (3). Introduces concepts of enterprise-wide computing, information architecture, process design, data models, and client/server computing.

ISM 6157 Enterprise System Configuration (DS) (3).

ISM 6158 Enterprise-Wide System Administration (DS) (3). This course will expose students to key aspects involved in the implementation and operation of the R/3 system and will provide the technical and conceptual foundation necessary for developing appropriate strategies and approaches for implementation and maintenance of an enterprise-wide system.

ISM 6205 Database Management (DS) (3). The course addresses techniques for structuring and managing data in organizations. Discusses data concepts, data modeling, database requirements definition, conceptual, logical, and physical design, data administration, and distributed database management. Prerequisite: MAN 6830. (S)

ISM 6222 Telecommunications Network (DS) (3). This course will focus on providing the student with fundamental understanding of the
various concepts involved in modern data communica-tion and networking installations, along with its implications in the design of information systems.

ISM 6225 Global Applications of Information Technology (3). Examines information technology use in the international arena, e.g., for communication within a multinational corporation, or communication with customers, suppliers in another country. Topics include: transborder data flow; global connectivity through Telecommunications; IT transfer across national boundaries, management of IT in multinationals; case studies or global IT use. Prerequisite: MAN 6830.

ISM 6305 Information Systems Planning (DS) (3). An in-depth study of systems concepts, as they apply to information systems in organizations. Consideration of planning for systems development and its accomplishment through the phases of the life cycle, and of the overall management of the information systems function. Prerequisites: MAN 6830 and MAN 3025. (S)

ISM 6357 Computer Administration (DS) (3). The theory and computer management. Topics include selection, training, job and performance evaluation, and incentive schemes as they relate to key positions of systems analysis, programming, data preparation and entry, and project management. Special attention is given to human resources management and development at various levels within the EDP department. (F)

ISM 6405 Management Support Systems (DS) (3). Concept of decision support is examined in a management decision context. Types of applied decision support and expert systems in business are surveyed. Prerequisite: MAN 6830. (F)

ISM 6423 Knowledge Management (3). This course explores the basic concepts of managing organizational intellectual capital, including appropriate information technologies ranging from Intranets to Artificial Intelligence.

ISM 6455 Microcomputer Applications in Business (DS) (3). Fundamentals and comparison of contemporary microcomputers. Extensive usage of available software for making business decisions. Emphasis on small business applications and cases. Student projects. Prerequisites: Computer programming proficiency, MAN 4504 and CGS 3300 or MAN 6501 and 6830. (S)

ISM 6930 Special Topics in Management Information Systems (DS) (1-6). To study the recent developments in the MIS field not otherwise offered in the curriculum, such as office automation, computer graphics, etc. Prerequisites: Advanced standing and department chairman approval.

ISM 7083 Deterministic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of deterministic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources. (S)

ISM 7087 Probabilistic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of probabilistic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources. (F)

ISM 7126 Systems Analysis and Design (DS) (3). The process of analyzing information requirements and the design and implementation of software systems. Emphasis on the theoretical foundations of different systems development techniques. (F)

ISM 7152 Seminar on System Implementation (DS) (3). Theory and research on the implementation of information systems in organizational settings. Theories of technological innovation and political action applied in the design and development of systems within organizations. (F)

ISM 7306 Seminar on Managing Information Resources (DS) (3). Theory and research on the managerial viewpoint on information processing functions within an organization. Relationship of information management to strategic planning and other business functions. (F)

ISM 7345 Organizational Impacts of Information Systems (DS) (3). Analysis of theory and research on the impacts of information systems on human behavior in organizations and upon organizational design. (F)

ISM 7406 Decision Support Systems (DS) (3). Theory and research on the design of decision aids. Integrating models and data with a technological delivery system that supports unstructured problem-solving by executive. (S)

MAN 5524 Advanced Production Management (DS) (3). More advanced methods in master planning, forecasting, capacity management, production activity scheduling/control, MRP and inventory management. This course has a professional orientation similar to the APICS certification guidelines. Prerequisite: MAN 4504 or MAN 6501, or Department Chairperson's approval. (S)

MAN 5930 Seminar in Personnel Management (MA) (3). Overview and examination of the various aspects of the personnel management function. (F)

MAN 6xxx Colloquium in Managing Organizational Ethics (ME) (1). This course introduces students to core concepts and practices of managing ethical issues in business firms. Using cases, readings and speakers from the business community, the course teaches leadership skills and organizational design strategies to resolve ethical business dilemmas in personally, professionally and environmentally responsible ways. Topics covered include: personal values and ethics; creating and maintaining ethical work climates; ethical issues in stakeholder management, ethics in the global business environment, and ethical issues in managing technology and innovation.

MAN 6051 Organization and Management Process (MA) (3). Analysis of organizations including the evolution of management thought and the effects of technology and the environment on the organization. Emphasis will be on such concepts as division of work, delegation and decentralization, leadership, motivation, work satisfaction; as well as planning, organizing, directing, and controlling. (F)

MAN 6066 Business Ethics (ME) (3). Practical approaches for addressing ethical conflicts in organizational administration. Emphasis will be placed on developing participants' ability to accurately diagnose organizational ethics problems and determine constructive solutions.
MAN 6121 Interpersonal Behavior and Analysis (MA) (3). A human interaction/human relations training laboratory, designed to increase both self-awareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict. (S)

MAN 6145 Intuition in Management (MA) (3). Interdisciplinary study of intuition and its applications in management. Apply learnings in a term project. Prepare Intuitive Experience Logs to discover intuition firsthand. Prerequisite: Computer Competency. (F)

MAN 6204 Organization and Management Theory (MA) (3). Analysis and design of the structure and process of complex organizations. Effects of task uncertainty, growth, power, goals, and information technology on organization structure and control. (F,S)

MAN 6209 Organization Design and Behavior (MA) (3). Covers how managers interact with organizations to accomplish complex tasks by examining how strategy, structure and systems interact with behavioral variables.

MAN 6245 Organizational Behavior (MA) (3). Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions to improve organizational effectiveness. Research methods to study organizational behavior. (F,S,SS)

MAN 6265 Group Processes in Organizations (MA) (3). The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings. (S)

MAN 6295 Conflict in Organizations (MA) (3). A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models as approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized. (F)

MAN 6311 Advanced Personnel Management (MA) (3). Attention is focused on the theory and practice of modern personnel management, as related to other management functions. Topics include selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resources management and development at various organizational levels. (F)

MAN 6321 Personnel Selection and Placement (MA) (3). Individual differences and their measurement in personnel selection and job placement. Job design and redesign. (S)

MAN 6331 Compensation Administration (MA) (3). An in-depth analysis of Wages and salary administration, including such topics as job evaluation; wage incentive systems; and work sampling. (SS)


MAN 6356 Professional Development Seminar I (1).

MAN 6357 Professional Development Seminar II (1).

MAN 6358 Professional Development Seminar III (1).

MAN 6405 Labor Relations (MA) (3). Examines the collective bargaining system in the United States from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention is given to the negotiation and administration of agreements. (S)

MAN 6411 Collective Bargaining Topics (MA) (3). An advanced course in labor relations for students with some background who desire more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations, are treated at length. (SS)

MAN 6416 Corporate Negotiations (MA) (3). An examination and analysis of corporate negotiation strategies in such areas as collective bargaining, mergers, joint ventures, and with government regulation agencies. The legal environment affecting the negotiated process will be closely scrutinized, as well as internal and external political processes. Prerequisites: ACG 6026, MAN 6245, FIN 6428, MAR 6805. (F,S)

MAN 6501 Operations Management (DS) (3). This course covers analysis, design, and operations of organizational systems. The systems approach is used to provide a framework or general model of analysis, to which specific concepts, quantitative techniques, and tools can be related. The material presented has application to any organization of people and machines, including hospitals, governmental agencies, service organizations, and industrial concerns. Prerequisite: QMB 6357 or its equivalent. (F,S)

MAN 6525 Managing for Total Quality (3). Addresses underlying management assumptions, methods, tools, culture and philosophy of total quality management - TQM. (F)


MAN 6559 Seminar in Management Science (DS) (3). New topics application areas will be explored. Lectures will relate to the latest advances in the theory and application of management science. Prerequisite: Instructor's approval. (S)

MAN 6569 Managerial Decision-Making (DS) (3). This course will investigate and analyze the decision-making problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603 or equivalent. (F,S)

MAN 6585 Productivity Management Seminar (DS) (3). Analysis of productivity in manufacturing and service organizations and methodology for productivity improvement. Extensive cases, projects, tours, and guest speakers. Prerequisite: Graduate students (or CBA certificate students). (F)

MAN 6601 International Management (MA) (3). This course examines the functions of management in an international context: organization, communication, strategic planning, control, motivation, leadership, and human resource management. The topics include the cultural differences behind different managerial styles and customs.
MAN 6603 Problems in Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at underscoring the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences. (F)

MAN 6606 International Business Environment (ME, MA) (3). A macro-examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications and societal forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6608 International Business (MA) (3). This course examines the environmental variables affecting international operations, trade and investment theories, international institutions, and regional economic groups. It also focuses on international finance, international accounting, international marketing, and international management problems and issues.

MAN 6615 International Labor-Management Relations (MA) (3). Comparative analysis of selected industrial relations systems and impact on multinational firms and international labor movements. Emphasis on empirical models and management-oriented case studies. (S)

MAN 6617 Managing Global Production and Technology (MA) (3). An exploration of the management of technology and its relationship to the dynamics of globalization of production in both manufacturing and service industries. Prerequisite: MAN 6608. (F)

MAN 6635 International Business Policy (MA) (3). An analysis of corporate strategies in a rapidly developing and changing world environment. Emphasis will be placed on forecasting, planning, and contingency strategies. The course is taught by case method and stresses the environmental and institutional constraints on decision making within the organization. Corporate executives are invited to attend whenever possible. Prerequisites: ACG 6026, MAN 6245, FIN 6428, and MAR 6805 and MAN 6603 or MAN 6608. (F)

MAN 6675 Special Topics in International Business (MA) (3). For groups of students who wish to study intensively a particular topic, or a limited number of topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Approval of the faculty advisor, Department Chairperson, and Dean. (F, S, SS)

MAN 6679 Master's Project in International Business (MA) (3). An individual research project on an international business problem, which may include field work (including internship), library research, computer modeling, or the use of an approved research methodology. Prerequisites: Assignment of faculty advisor and permission of Department Chairperson. (F, S, SS)

MAN 6695 Independent Study in Business (MA) (3). Individual conferences; supervised readings, reports on personal investigations. Prerequisites: Assignment of faculty tutor and written permission of Department Chairperson, and Dean.

MAN 6703 Colloquium in Managing Organizational Ethics (1). Management issues, responsibilities, and techniques associated with public and private expectations for ethical performance of large-scale organizations.

MAN 6715 Business Environment and Public Policy (ME) (3). An examination of the economic, political, social, and moral context in which management decisions are made. The focus is on the public policy environment of business, whereby community direction is transformed into corporate behavior.

MAN 6726 Strategic Management (MA) (3). The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Should be taken in the last semester of master's program. (F, S, SS)

MAN 6727 Doing Business in the Marketplace (DS) (3). Give students practical lessons on the emerging world of the marketplace & teach them how to manage and make money there. Show how managing in the marketplace works with managing in the marketplace. Prerequisite: MAN 6830.

MAN 6805 Entrepreneurship (MA) (3). A discussion of the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects. (F)

MAN 6830 Organization Information Systems (DS) (3). Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 6830L Organization Information Systems Laboratory (DS) (1). Laboratory applications for MAN 6830.

MAN 6908 Independent Study in Business Environment (3). Independent project in the political, economic, social, cultural, ethical, or governmental relations environment of business. Directed study with a business environment faculty member. Prerequisites: MAN 6715, MAN 6606 and Permission of the instructor.

MAN 6910 Research Methods in Management (MA) (3). Covers the research methods and analytical techniques most widely used in research in human resources and general management. Emphasis is on helping students to become more aware of current techniques and their applications. (S)

MAN 6911 Research in Systems Development (DS) (3). Conduct an individual research project or thesis on a topic in the area of computer personnel, systems analysis and design, or other areas within the framework of the MIS program, subject to the instructor's approval. Prerequisite: ISM 6155.

MAN 6930 Master's Seminar in Management (MA) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. The student may make a preliminary selection of his/her master's thesis or project topic. Prerequisites: Consent of faculty sponsor, Department Chairperson, and Dean. (F, S, SS)

MAN 6937 Special Topics in Business Environment (3). A review of a contemporary dimension of business' environment in a field of
faculty specialization. Prerequisites: MAN 6523, MAN 6606 or equivalent.

MAN 6974 Master's Project in Management (MA) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College. (SS)

MAN 7146 Leadership I (MA) (3). Course identifies leadership theories and research bearing on modern management practice. Behavioral, situational and transformational theories of leadership are emphasized, compared and evaluated. (F)

MAN 7147 Leadership II (MA) (3). Draws on research and case studies for understanding of adaptive leadership in turbulent, uncertain environments. Emphasis on effective management of innovation, entrepreneurial activity and new ventures. (S)

MAN 7148 Intuition in Management (3). In-depth study of the nature and development of the intuitive process emphasizing its role in management decision making and its relationship to rational problem solving. Prerequisite: Permission of the instructor. Corequisite: MAN 7148L. (S)

MAN 7155 Fundamentals of Behavioral Research (MA) (3). Analytical tools to conduct systematic research. Methods of data collection in lab, survey and field research. Emphasis on principles of measurement and statistics to interpret/report behavioral data. (F)

MAN 7206 Organizational Analysis (MA) (3). Develops skills in organizational problem-solving through applications of theory and research to actual problems. Emphasis on needs analysis, process consultation, team-building and action research. (S)

MAN 7207 Theories of Organization (MA) (3). Organization functioning from a macro perspective; emphasis on evolution, structure, design and processes of complex systems. Study of communication/information networks, inter-group processes and control strategies. (F)

MAN 7235 Management Philosophy and Strategy (MA) (3). Compares various cross-cultural management philosophies to structure and function of different types of organizations. Emphasis on how to develop and implement a management strategy for maximum productivity in different organizations. (S)

MAN 7275 Organizational Behavior Management (MA) (3). An introduction to the study of human behavior in organizations. Emphasis is given to management of individual and group processes including conflict attitudes, decision making, motivation and stress. (F)

MAN 7305 Human Resource Management (MA) (3). Personnel management topics including personnel selection, performance appraisal, training design, employee development, and compensation administration. Legal and practical issues are emphasized. (S)

MAN 7412 Labor-Management Topics (MA) (3). Presents various aspects of the labor-management relationship to provide a contemporary perspective. Emphasis on structure, processes, strategies and legal issues in collective negotiation and industrial relations. (F)

MAN 7529 Seminar in Operations Management (DS) (3). Concepts, tools and recent research developments in the design, planning and control of operations management systems in business and service organizations. Prerequisite: ISM 7083. Corequisite: ISM 7084.

MAN 7609 Comparative Management (MA) (3). Course focus is cross-cultural management, i.e., how cultural values influence managerial behavior. The problems of cross-cultural communications, leadership, motivation, and decision making are examined. Prerequisites: Admission to Doctoral program and completion of Doctoral core. (S)

MAN 7616 Multinational Firm Global Strategy (MA) (3). Overview of the strategic management and international business concepts that frame strategic activity in MNCs. Competitive business strategies in global and multinational industries. Prerequisite: Completion of business Ph.D. core. (F)

MAN 7620 International Business Operations I (MA) (3). Examination of the functional management, operations and concerns of international businesses. Emphasizes analysis of problems in managing joint ventures, licensing, barter, and technology transfer. Prerequisites: Admission to Doctoral program and completion of doctoral core. (F)

MAN 7621 International Business Operations II (MA) (3). Focus on political, economic, and national security issues which influence IB operations or strategies. Examines techniques for political and economic risk, assessment and reactions to such influences. Prerequisites: Admission to Doctoral program and completion of doctoral core. (S)

MAN 7640 International Business Research Methods (MA) (3). Overview of IB academic research, emphasizing topics, literature, methods, information sources, applications, problems, and journal characteristics. Prerequisites: Admission to business doctoral program and completion of doctoral core. (F)

MAN 7718 Analysis of Corporate Policy Methods (MA) (3). Links functional areas of management to provide integrated view of organization and public policy. Emphasis on measurement, analysis and conceptualization of organization as a totality of operations. (F)

MAN 7895 Seminar in Management (MA) (3). Key concepts in management ranging from individual worker styles to business ethics. Emphasis on topics such as men and women in organization, decision making styles, and attribution management. (S)

MAN 7910 Advanced Management Research (MA) (3). Covers applications of analytical methods in contemporary management research. Emphasis is given to complex research design strategies including multivariate techniques and multidimensional scaling. (S)

MAR 6075 Current Issues in Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing. Prerequisite: MAR 6805.

MAR 6158 International Marketing (ME) (3). This course discusses the nature and scope of international marketing, and explores problems facing multinational firms and other international marketing organizations, together with strategies for foreign market penetration. Prerequisite: MAR 6805. (F,S)
MAR 6336 Integrated Marketing Communication (ME) (3). A broad introduction to the field of integrated marketing communications and how it fits into the marketing plan. Discussion of objective setting, budgeting, and media planning, as well as the strategic planning and evaluation of advertising media, sales promotion, public relations, direct marketing, personal selling and marketing communications on the internet. Prerequisite: MAR 6805.

MAR 6406 Sales Management (ME) (3). Analysis of personal selling’s roles in marketing strategy using detailed case studies on field sales management, working with channel organization, and planning and controlling sales operations. Prerequisite: MAR 6805. (S)

MAR 6506 Consumer Behavior (ME) (3). Modern comprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes. Prerequisite: MAR 6805. (F)

MAR 6646 Managing Marketing Information (ME) (3). The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher. Prerequisite: MAR 6805 or Permission of the instructor. (F)

MAR 6707 Current Issues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6605.

MAR 6805 Marketing Management in the Global Environment (ME) (3). Analysis and application of theory and problem solving for marketing management in the global environment. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

MAR 6816 Corporate Simulation (ME) (3). Course emphasis is on application and integration of concepts and tools, through participation in the marketing management of a firm in competition with other firms. The course's focal point is a computerized marketing management simulation. Prerequisite: ACG 6175, FIN 6428 & MAN 6501. (F,S)

MAR 6xxx Database Marketing (ME) (3). A practical approach to the use of database information to solve marketing problems. Emphasis is on obtaining, managing and using information about current and potential customers. Topics include data acquisition, data mining, list segmentation and customer modeling, and direct marketing, relationship marketing and customer lifetime value applications.

MAR 6xxx Negotiations (ME) (3). This course introduces students to the art and science of negotiations. The science involves learning about theories and methodologies which have been developed as guides for improving negotiated outcomes, and the art involves building negotiating skills and developing an understanding of one’s own negotiating style through a series of realistic negotiations cases. The class will include a wide variety of negotiation cases, from two-person through multi-party and from simple issues of selling prices to multi-issue bargaining situations.

MAR 6xxx Brand Management (ME) (3). The focus of this course is to provide a sound understanding of the function, issues and challenges of the brand or product manager. The scope of the course embraces U.S. and international situations and will involve practice in application of these skills in the context of the product manager's role in the enterprise.

MAR 6xxx Marketing Strategy (ME) (3). A study of strategic marketing planning through case analysis and selected readings. Emphasis is on planning and problem solving processes, particularly directing, planning, organizing, coordinating, and controlling as applied to a contemporary market-oriented organization.

MAR 6xxx (e)Marketing (ME) (3). This course is designed to familiarize students with internet marketing. In particular, the course provides students with an understanding of the theory and practice of marketing on the internet. The course will include a critical evaluation of internet applications appropriate to marketing management. Although both b2b and b2c applications are discussed, the emphasis on one or the other will vary, depending on the instructor.

MAR 6915 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required.

MAR 6936 Special Topics in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 7203 Seminar in Channels of Distribution (ME) (3). Covers readings from the marketing, economics, logistics, organizational behavior, social psychology, and sociology literatures in developing a research perspective on channels of distribution.

MAR 7246 Seminar in International Marketing (ME) (3). Examines major topics and theories in the international marketing literature. Analyzes various perspectives on business activities and strategies in global markets.

MAR 7507 Seminar in Consumer Behavior (ME) (3). Covers the major topics and theoretical perspectives in consumer behavior research, with emphasis on consumer decision making.

MAR 7622 Marketing Research Methodology I (ME) (3). Philosophy, concepts, methods of marketing research design. Experimental methods, sampling procedures, measurement techniques, other methodological considerations. Prerequisites: Successful completion of first year research methods requirements in a College of Business Ph.D. Program or Permission of the instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the role of marketing professionals in responding to social, economic, political, technological and ecological changes in the business environment. Addresses issues of marketing ethics, social accountability, and the design of responsible marketing strategies.

MAR 7652 Seminar in Advertising and Persuasion (3). Covers the major topics and theoretical perspectives within the research literature addressing persuasive communications.
MAR 7667 Seminar in Marketing Management (ME) (3). Covers programs of research related to the management of marketing organizations and their role in improving organizational performance. Current and potential research topics will be considered from the perspective of leading scholars and marketing executives.

MAR 7786 Seminar in Marketing Theory (ME) (3). Intensive analysis of the nature and role of hypotheses, generalizations, and empirical regularities. Critical examination of theories of marketing and interaction of marketing theory and practice.

MAR 7815 Seminar in Foundations of Marketing Thought (ME) (3). Foundations of marketing, interdisciplinary relationships; reviews major research areas: the marketing mix, consumer choice models, segmentation, stochastic, and analytical models.

MAR 7845 Seminar in Services Marketing (ME) (3). Analyzes the nexus between services and marketing management. Identifies and appraises alternative corporate strategies within industries such as banking and finance, insurance, hospitality, entertainment and leisure, health care, and education.

MAR 7875 Sectorial Marketing (ME) (3). Course includes retailing, wholesaling, pricing, distribution, advertising, sales promotion and management, personal selling, international services and macromarketing; and marketing and economic development.

MAR 7979 Doctoral Research in Marketing (ME) (1-6). Research while enrolled for a doctoral degree under the direction of faculty members. Prerequisite: Permission of Department.

QMB 6357 Business Analysis for Decision Making (3). Review of the relevant quantitative techniques required for business analysis and decision making, including decision models, mathematical programming, statistics and forecasting.

QMB 6603 Quantitative Methods in Management (DS) (3). Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. Prerequisites: College Algebra and completion of the Computer Programming Proficiency requirement. (F,S,SS)

QMB 6805 Deterministic Models for Management Analysis (DS) (3). Applications of deterministic models such as linear and nonlinear programming, network analysis (PERT), dynamic programming, and branch and bound algorithms to managerial problems of allocation, planning, scheduling, investment, and control. (S)

QMB 6845 Simulation of Management Systems (DS) (3). Basic concepts of computer simulation of systems; application of these concepts to a variety of management problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis, heuristic methods, and management games are covered. Prerequisites: MAN 6569 and a Computer Programming Language. (S)

QMB 6855 Stochastic Models for Management Analysis (DS) (3). Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems. (S)

QMB 6875 Stochastic Models for Project Management (DS) (3). Review of deterministic models and principles. Introduction to GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics, and individual projects. Students use the computer, and existing programs, to analyze hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions. (F)

QMB 6905 Independent Study in Decision Sciences (DS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Department Chairperson and Dean required. P/F only. (F,S,SS)

QMB 6934 Seminar in Decision Sciences (DS) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. Consent of instructor required. (F,S,SS)

QMB 6974 Project in Decision Sciences (DS) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College and approved by the Department Chairperson. (F,S,SS)

QMB 7935 Seminar in Decision Sciences (DS) (3). Critical review and analysis of recent and important research developments in the area of decision sciences. Prerequisites: ISM 7083 and ISM 7087. (S)

TAX 5066 Tax Research and Reporting (AC) (3). A study of tax planning aspects of a variety of business and other transactions. Emphasis will be placed upon perceiving tax issues and conducting research to resolve them. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5106 Corporate Taxation (AC) (3). Tax implication of corporate formations, distributions, redemptions, liquidations, divisions, reorganizations, collapsibles, attributes, consolidations, S-Corp, AET and PHC’s. Prerequisites: Permission of Accounting certificate program advisor.

TAX 5406 Taxation of Estates and Trusts (AC) (3). Study of income tax aspects of decedents, followed by income taxation of estates and trusts (subchapter J). Special emphasis on throw-back rules, grantor trusts, charitable remainder trusts, and foreign trusts. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5506 International Dimensions of Taxation (AC) (3). Tax provisions affecting foreign corporations and nonresident aliens, as well as those tax provisions affecting U.S. person’s business and investment activities outside the U.S. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5725 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 and permission of accounting certificate program advisor.

TAX 5875 Seminar in Taxation (AC) (3). An in-depth study of recent legislative, administrative, and judicial
developments in taxation. Prerequisites: TAX 4001 or equivalent, and permission of Accounting certificate program advisor.

TAX 5904 Independent Study in Taxation (AC) (3). Individual conferences, supervised readings, reports on personal investigations. Prerequisite: Written Permission of the instructor, Accounting certificate program advisor, School director, and dean.

TAX 5936 Special Topics in Taxation (AC) (3). Intensive study for groups of students of a particular topic or topics not otherwise offered in the curriculum. Prerequisite: Written permission instructor, Accounting certificate program advisor, School director, and dean.

TAX 6005 Income Tax (AC) (3). A survey of federal income taxation, with emphasis on the taxation of individuals and corporations and the ethics of income tax accounting. Prerequisites: ACG 6115 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

TAX 6015 Taxation of Corporations and Partnerships (AC) (3). An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: TAX 4001 or equivalent with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

TAX 6065 Tax Research (AC) (3). An in-depth study and application of both traditional and computer-assisted tax research tools and of relevant practice and procedural mechanisms affecting taxation. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

TAX 6105 Taxation of Corporations I (AC) (3). The study of federal tax consequences of the formation and operation of corporations; distributions and redemptions; elections of Subchapter S status. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

TAX 6115 Taxation of Corporations II (AC) (3). The study of federal tax consequences of the liquidation and reorganization of corporations; multiple corporations; advanced topics in corporate taxation. Prerequisites: TAX 6105 and admission to a graduate program in the School of Accounting or permission of the School Director. (SS)

TAX 6205 Partnership Taxation (AC) (3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited). Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6405 Estate and Gift Taxation (AC) (3). The study of the federal estate tax and federal gift tax provisions. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6415 Fiduciary Accounting and Taxation (AC) (3). The study of the income taxation of estates, trust, and the beneficiaries thereof, including the determination of distributable net income, and throwback rules. The grantor trust and income in respect of a decedent is emphasized. The use of trusts in tax and estate planning is also explored. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6445 Estate Planning (AC) (3). An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and post-mortem planning. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6505 International Taxation I (AC) (3). Federal income tax provisions applicable to non-resident aliens and foreign corporations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6515 International Taxation II (AC) (3). Federal income tax provisions applicable to U.S. persons, business, and investment activities outside the U.S. Prerequisite: TAX 6505 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6726 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6026 or equivalent and permission of Accounting advisor. Not open to M.S.T. or M.Acc. students.

TAX 6805 Tax Policy (AC) (3). A study of the tax accounting concepts and the judicial doctrines inherent in the federal tax law, tax planning, and tax policy. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6835 Taxation of Deferred Compensation (AC) (3). The taxation of qualified and non-qualified pension and profit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (F)

TAX 6875 Current Developments in Taxation (AC) (3). The study of recent legislative, administrative and judicial developments in taxation. Prerequisites: At least four additional graduate tax courses and admission to a graduate program in the School of Accounting or permission of the School Director. (S,SS)

TAX 6876 Transactions in Property (AC) (3). An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis on personal property transactions and securities investments. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (S,SS)

TAX 6877 Seminar in Taxation (AC) (3). Intensive study of a particular topic or a limited number of topics. The topics included in this course will depend upon the availability of faculty with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.
TAX 6905 Independent Study in Taxation (AC) (1-3). Individual conferences, supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6935 Special Topics in Taxation (AC) (1-3). Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

TAX 7815 Seminar: Tax Policy: An Analysis of the Issues (AC) (3). An in-depth examination of the horizontal and vertical equity issues in taxation, the effects on income distribution, business decisions, foreign balance of payments, public finance issues, and economic policy. Emphasized are the areas of empirical research vis a vis legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 5245 Transportation Logistics (ME) (3). Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optimization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

TRA 5401 Transportation Operations and Carrier Management (ME) (3). Contemporary management techniques as applied to carriers; management-problems peculiar to transportation firms; economic analysis of marketing problems; capital formation; costs; pricing; labor relations; and government regulation.

TRA 6015 Graduate Survey of Transportation Management (ME) (3). Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles in transportation. Current policies and problems for all the major transportation modes.

TRA 6905 Independent Study in Transportation (ME) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

TRA 6936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.
College of Business Administration

Dean
Joyce J. Elam

Associate Deans

Finance and Administration
Donald W. Fair

Undergraduate and Professional Programs
Dana L. Farrow

Counseling
Lynda Raheem

Marketing
Sally M. Gallion

Communications and Publications
Mort Dittenhofer

Director, School of Accounting
J.A.F. Nicholls

Department Chairs:

Decision Sciences and Information Systems
Christos Koulamas

Finance
Emmanuel Roussakis

Management and International Business
Karl O. Maguiseu

Marketing
James F. Tobin

Faculty

Anderson, Gary, Ph.D. (University of Illinois), Associate Professor, Finance

Auster, Rolf, Ph.D. (Northwestern University), CPA, CMA, Professor, Accounting

Barber, Joel, Ph.D. (University of Arizona), Associate Professor, Finance

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Browner, Ellie, M.Ed. (Florida International University), Director, Evening MBA Program and Center for Management

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de Boyrie, Maria, Ph.D. (Florida International University), Assistant Professor, Finance

Dessler, Gary, Ph.D. (City University of New York), Professor, Management and International Business

Dickson, Peter R., Ph.D. (University of Florida), Professor and Knight RidderEminent Scholar, Marketing

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Dittenhofer, Mortimer, Ph.D. (American University), Professor and Director, Accounting

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Dorsett, Herman W., Ed.D. (Columbia University), Associate Professor, Management and International Business

Elam, Joyce J., Ph.D. (University of Texas-Austin), Professor, Decision Sciences and Information Systems, James L. Knight Eminent Scholar, and Dean

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Fernandez-Becerra, Irma, Ph.D. (Florida International University), Assistant Professor, Decision Sciences and Information Systems

Friday, Earnest, Ph.D. (University of Miami), Assistant Professor, Management and International Business

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Garcia, Georgina, M.S.M. (Florida International University), CPA, Instructor, Accounting

Gilbert, G. Ronald, Ph.D. (University of Southern California), Associate Professor, Management and International Business

Goodrich, Jonathan N., Ph.D. (State University of New York at Buffalo), Professor, Marketing

Gray, Delano, M.S., (New York University), Instructor, Accounting

Greenberg, Barnett A., DBA (University of Colorado), Professor, Marketing

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Hallbauer, Rosalie C., Ph.D. (University of Florida), CPA, CMA, Associate Professor, Accounting

Hamid, Shahid, Ph.D. (University of Maryland), Associate Professor, Finance and Director, M.S.F. Program

Harris, Judy, Ph.D. (University of Houston), Assistant Professor, Marketing and Burdines Professor of Retailing

Hendrickson, Harvey S., Ph.D. (University of Minnesota), CPA, Professor, Accounting

Hodgetts, Richard M., Ph.D. (University of Oklahoma), Professor, Management and International Business

Hogner, Robert H., Ph.D. (University of Pittsburgh), Associate Professor, Management and International Business

Jarrett, Rayland D., M.B.A. (American University), Instructor, Accounting and Management and International Business

Keys, James D., M.B.A. MSF (Florida International University), Instructor and Associate Director, M.S.F. Program, Finance

King, Joseph T., M.B.A. (Barry University), Lecturer, Decision Sciences and Information Systems

Koulamas, Christos F., Ph.D. (Texas Tech University), Professor and Chair, Decision Sciences and Information Systems
Kranendonk, Carl J., M.B.A. (University of Tulsa), Instructor, Marketing

Krooek, K. Galen, Ph.D. (University of Akron), Professor, Management and International Business

Kumar, Kuldeep, Ph.D. (McMaster University, Hamilton, Canada), Professor and Ryder Eminent Scholar, Decision Sciences and Information Systems

Kyparisis, George J., D.Sc. (George Washington University), Professor, Decision Sciences and Information Systems

Lassar, Walfrid, Ph.D. (University of Southern California), Associate Professor and Barisky-Greenstein Professor, Marketing

Lavin, David, Ph.D. (University of Illinois), CPA, Associate Professor, Accounting

Levy, Yair, M.B.A., (Florida International University) Instructor and Online Learning Project Manager, Decision Sciences and Information Systems

Li, Tiger, Ph.D. (Michigan State University), Associate Professor, Marketing

Lubell, Myron, D.B.A. (University of Maryland), CPA, Associate Professor, Accounting and Director, E.M.S.T. Program

Luytjes, Jan B., Ph.D. (University of Pennsylvania), Professor, Management and International Business

Luytjes, Marta C., M.B.A. (Florida International University), Lecturer, Management and International Business

Magnussen, Kari O., Ph.D. (University of Wisconsin), Professor and Chair, Management and International Business

Mainduque, Modesto A., Ph.D. (Massachusetts Institute of Technology), Professor, Management and International Business, and University President

Mandakovic, Tomislav, Ph.D. (University of Pittsburgh), Professor, Decision Sciences and Information Systems

Maney, David, Ph.D. (University of Texas-Austin), Assistant Professor, Accounting

Martin, J. Randall, M.A. (University of Miami), Lecturer, Management and International Business

Miniard, Paul, Ph.D. (University of Florida), BMI Professor of Marketing, Marketing

Miutchev, Ligla M.S. (European University), Lecturer, Decision Sciences and Information Systems

Moncarz, Raul, Ph.D. (Florida State University), Professor, Finance and Vice Provost, Academic Affairs

Moss, Sherry, Ph.D. (Florida State University), Associate Professor, Management and International Business and Faculty Coordinator, Executive M.B.A. Program

Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor Emeritus, Accounting

Mueller, Stephen L., Ph.D. (University of Texas-Dallas), Assistant Professor, Management and International Business

Murro, Michael S., M.B.A. (Stanford University), Associate Professor, Marketing

Murphy, Kenneth E., Ph.D. (Carnegie Mellon University), Assistant Professor, Decision Sciences and Information Systems

Nicholls, J.A.F., D.B.A. (Indiana University), Professor and Chair, Marketing

Noguera, Jose, Ph.D. (Louisiana State University), Assistant Professor, Decision Sciences and Information Systems

Oliva, Robert R., Ph.D. (Florida International University) CPA, Professor, Accounting

Oliveira, Manoel, Ph.D. (Florida International University), Instructor, and Director of Technology, Decision Sciences and Information Systems

Ortiz, Marta, Ph.D. (University of Miami), Associate Professor, Marketing

Pak, Simon, Ph.D. (University of California-Berkeley), Associate Professor, Finance and Associate Director, Center for Banking and Financial Institutions

Parhizgari, Ali, M. Ph.D. (University of Maryland), Professor, Finance

Paul, Karen, Ph.D. (Emory University), Professor, Management and International Business

Perry, Clifford, Ph.D. (Purdue University), Visiting Distinguished Executive Professor, Management and International Business

Polster, Eleanor, M.B.A. (Florida International University), Graduate Advisor

Pomeranz, Felix, Ph.D. (University of Birmingham, England), CPA, CSP, CFE, Professor and Associate Director, Accounting, and Director, Center for Accounting, Auditing, and Tax Studies

Prakash, Arun, Ph.D. (University of Oregon), Professor, Finance

Racca, Kristle, B.S. (Florida International University), Counselor and Advisor

Raheem, Lynda, M.B.A. (University of Miami), Instructor, Marketing, and Assistant Dean

Remmer, Louis F., M.B.A. (Florida International University), Instructor, Marketing

Rodriguez, Leonardo, D.B.A. (Florida State University), Professor, Accounting, and Management and International Business

Roomes, Donald, M.B.A. (Florida International University), Instructor, Management and International Business and Director, Weekend MBA

Root, H. Paul, Ph.D. (Purdue University), James K. Batten Eminent Scholar and Lecturer and Director, Knight Ridder Center for Excellence in Management, Marketing

Rose-Green, Ena, Ph.D. (Florida State University), CPA, Assistant Professor, Accounting

Roslow, Sydney, Ph.D. (New York University), Professor Emeritus, Marketing

Roussakis, Emmanuel, Ph.D. (Catholic University of Louvain, Belgium), FIBA Professor of Finance, Director of Certificate Programs in Banking and Chair, Finance

Seaton, Bruce, Ph.D. (Washington University), Associate Professor, Marketing and Business Environment

Shepherd, Philip, Ph.D. (Vanderbilt University), Associate Professor, Management and International Business

Silverblatt, Ronnie, Ph.D. (Georgia State University), Associate Professor, Management and International Business

Simon, Steven John, Ph.D. (University of South Carolina), Assistant Professor, Decision Sciences and Information System

Sipal, Rajeshwar, Ph.D. (University of Florida), Instructor

Smith, Larry A., Ph.D. (State University of New York at Buffalo), Associate Professor, Decision Sciences and Information Systems

Sutija, George, M.B.A. (Columbia University), Associate Professor, Management and International Business
Taylor, Kimberly, Ph.D. (University of Pennsylvania), Associate Professor, Marketing

Thomas, Anisya, S. Ph.D. (Virginia Polytechnic and State University), Associate Professor, Management and International Business

Tsaklikis, John, Ph.D. (University of Mississippi), Associate Professor, Marketing

Turner-Oglesby, Marateda, B.S. (Tennessee State University), Counselor and Advisor

Valenzi, Enzo R., Ph.D. (Bowling Green State University), Professor, Management and International Business

Van Fenema, Paul, M.S. (Utrecht University), Visiting Lecturer, Decision Sciences and Information Systems

Von Glinow, Mary Ann, Ph.D. (The Ohio State University), Professor, Management and International Business and Director, CIBER

Wang, Tei-Wei, M.S. (University of Missouri), Visiting Lecturer, Decision Sciences and Information Systems

Wass, Lauren, B.S. (Florida International University), Counselor and Advisor

Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance

Wheatley, Clark, Ph.D. (Virginia Polytechnic Institute), CPA, Assistant Professor, Accounting

Wishart, Nicole, M.B.A. (University Of Miami), Instructor, Decision Sciences and Information Systems

Wrieden, John A., J.D. (George Mason University), Senior Lecturer, Accounting

Wyman, Harold E., Ph.D. (Stanford University), Professor, Accounting

Zanakis, Steve H., Ph.D. (Pennsylvania State University), Professor, Decision Sciences and Information Systems

Zdanowicz, John S., Ph.D. (Michigan State University), Professor and Director, Center for Banking and Financial Institutions and Director, Jerome Bain Real Estate Institute

Zegan, Peter J., M.S. (University of Florida), Instructor, Decision Sciences and Information Systems
College of Education
College of Education

The College of Education exists in an urban, multicultural setting and has a three-part mission. The first is to prepare professionals who have the abilities and dispositions to facilitate and enhance learning and development within diverse settings. The second is the discovery and dissemination of knowledge related to learning, teaching, and development. The third is the development of professional partnerships to promote meaningful educational, social, economic and political change. Our mission supports:

- Curricula that reflect sound theory and best practice.
- Qualified and diverse students and graduates.
- Qualified and diverse faculty active in teaching, research and service.
- Effective governance and organizational structure within an environment of open communication among faculty, administrators, staff, students and community.
- Collaborative and mutually beneficial partnerships with schools and other organizations.
- Visibility at local, state, national and international levels.
- Continuous improvement of the College.

The College offers instructional programs at the undergraduate and graduate levels, engages in research and program development activities and provides field services to the educational community.

The College, housed in the Sanford and Dolores Ziff Education Building (ZEB) at Florida International University—University Park, is fully accredited by the National Council for the Accreditation of Teacher Education, the Florida Department of Education, and the Florida Board of Regents.

To support its mission, the College is organized into six separate but related departments:

- Educational Foundations and Professional Studies
- Educational Leadership and Policy Studies
- Educational Psychology and Special Education
- Elementary Education
- Health, Physical Education, and Recreation
- Subject Specializations

Applications to the College’s programs should carefully examine the choices of major concentrations and program objectives. Because there are occasional revisions to the College of Education’s curriculum during the academic year, some curriculum changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General admission is available by telephone: (305) 348-2768 for University Park, (305) 919-5820 for North Campus. Broward residents may call (954) 355-5622 for North Campus or for the Broward Program. Dade residents may call (305) 760-5622 for the Broward Program. Additional information is available on the FIU website at www.fiu.edu. Specific program advisement is available by prearranged personal appointment with advisors at all locations.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University’s various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that the requirements have been met.

It is recommended that students meet with their advisors throughout the program to assure appropriate progress.

Masters, Specialist, and Doctoral Degrees

Graduate studies offered by the College provide specialization in degree programs developed to reflect individual student interests. A graduate program may include courses, seminars, field experiences, research courses, theses, and dissertations, depending upon the student’s level and area of emphasis.

Master of Science Degree Programs

Master of Science degree programs are offered in the following specialties:

- Adult Education
- Art Education
- Counselor Education
- School Counseling
- Mental Health Counseling
- Early Childhood Education
- Educational Leadership
- Elementary Education
- English Education
- Health Education
- Exercise Physiology Track
- Health Occupations Education
- Home Economics Education
- Human Resource Development
- International Intercultural Development Education
- Mathematics Education
- Modern Language Education
- French
- Spanish
- Music Education (see College of Arts & Science, School of Music)
- Parks and Recreation Management
- Recreational Therapy
- Physical Education
- Sports Management
- Reading Education
- Science Education: Biology, Chemistry, and Physics
- Social Studies Education
- Special Education
- Varying Exceptionalities
- Teaching English to Speakers of Other Languages (TESOL)
- Technology Education
- Urban Education
- Instruction in Urban Settings
- Multicultural: Bilingual Education
- Multicultural: TESOL
- Learning Technologies
- Vocational Home Economics
- Education
- Vocational Education
- Administration and Supervision
- Vocational Industrial Education

Applicants for admission to most Master’s programs in Education must hold or qualify for Florida teacher certification in the appropriate area (see specific program area in this catalog for details). All applicants must also satisfy Board of Regents admission requirements: A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study or 1000 (total of verbal and quantitative) on the Graduate Record Examination (GRE).
Applicants admitted with a pending GRE score must submit a test score within one semester to be fully admitted. All applicants, regardless of GPA, must submit a GRE score.

Specific programs may have higher standards for admission. Having a minimum GPA and/or GRE score does not assure admission to a program. Admission is subject to the approval of program faculty.

Prior to formal admission to a graduate program, students may be approved to enroll in up to 12 semester hours of 5000 level graduate credit as non-degree seeking students, which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Graduate students will complete at least 30 semester hours of study beyond the bachelor's degree to earn a Master of Science degree in education. However, specific programs may require more than the minimum number of hours. Students may transfer a maximum of 6 semester hours taken at another accredited college or university toward a master's degree program having 30-45 semester hours, and a maximum of 9 semester hours toward a program having more than 45 semester hours with advisor's approval.

Master's program students must maintain an overall GPA of 3.0 in order to graduate. No more than two grades of 'C' and no grades of 'C-' or less received in courses that are part of a master's degree program of study will be accepted toward graduation.

No more than one workshop courses may be included in a master's degree program.

Alternate Masters Degree Tracks
Applicants who hold a bachelor's degree in a field other than education and wish to teach may want to consider pursuing an Alternate Masters Program, a degree program that leads to State of Florida teacher certification plus a master's degree.

- Art Education
- English Education
- Mathematics Education
- Modern Language Education
- Music Education
- Science Education
- Social Studies Education
- Varying Exceptionalities

Educational Specialist Degree Programs
Education Specialist degree programs are offered in the following specialties:
- Curriculum and Instruction:
  - Instructional Leadership
- Educational Leadership
- School Psychology

The programs require a minimum of 36 semester hours of course work at the University beyond the Master's degree. However, specific programs may require more than the minimum number of hours and may include six semester hours of thesis if that option is chosen.

Admission requirements and transfer of credit are the same as for the master's programs.

Doctor of Education Degree Programs
- Adult Education and Human Resource Development
- Curriculum and Instruction
- Educational Administration and Supervision
- Exceptional Student Education
- Higher Education

Doctor of Education Degree Program Specialties
Doctor of Education degree programs are offered in the following specialties:
- Adult Education and Human Resource Development
  - Vocational and Technical Education Leadership Track
  - International and Intercultural Development Education Specialization
- Curriculum and Instruction
  - Art Education Specialization
  - Early Childhood Education Specialization
  - Elementary Education Specialization
  - English Education Specialization
  - Instructional Leadership Specialization
  - International and Intercultural Development Education Specialization
  - Modern Language Education Specialization
  - Mathematics Education Specialization
  - Reading Education Specialization
  - Science Education Specialization
  - Social Studies Education Specialization
  - Varying Exceptionalities
Elementary Education

Lyne D. Miller, Associate Professor, Literacy Education and Chairperson, Elementary Education
Cengiz Alacaci, Assistant Professor, Mathematics Education
Maria A. Bilbao, Assistant Dean, Elementary Education
Lisa Challenger, Instructor, Early Childhood Education
Joyce C. Fine, Associate Professor, Reading and Language Arts Education
Rebecca P. Harlin, Associate Professor, Early Childhood, Elementary Education
Lisa Dixon-Krauss, Associate Professor, Reading Education
Sharon W. Kossack, Professor, Literacy Education
Scott P. Lewis, Assistant Professor, Science and Elementary Education
Nancy Marshall, Associate Professor, Reading and Language Arts Education
Alicia Mendoza, Associate Professor, Early Childhood, Elementary Education
George E. O’Brien, Associate Professor, Science Education and Chairperson, Elementary Education
William M. Ritzi, Instructor, Art Education
Cesar Rossatto, Assistant Professor, Social Studies Education

General Information
The department of Elementary Education is committed to service to the community and the extension of knowledge through research. The department's programs include:

Master of Science in:
Early Childhood Education
Elementary Education
Reading Education

Doctor of Education specialties in
Curriculum and Instruction degree:
Early Childhood Education
Elementary Education
Reading Education

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

It is recommended that students meet with an advisor throughout the program to assure adequate progress.

Master of Science in Early Childhood Education

Applicants for admission to the Master’s program in Early Childhood Education must hold or qualify for Florida certification or equivalent in early childhood education (including practical teaching experience requirement), and must satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 (sum of verbal and quantitative) on GRE. Applicants must submit GRE scores.

Degree Hours: (36)

Required Sequence of Courses:
Year 1 Fall

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<th>Course Title</th>
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<td>Education Programs for Younger Children</td>
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<tr>
<td>EDF 6608</td>
<td>Social Philosophical and Historical Foundations of Education</td>
<td>3</td>
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<th>Course Title</th>
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<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
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<td>Analysis and Application of Educational Research</td>
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Year 2 Fall

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<td>SCE 6306</td>
<td>Instruction in Early Childhood Science</td>
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<tr>
<td>EEC 6678</td>
<td>Research in Early Childhood Education</td>
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</table>

Entry to Program: Fall Semester - Students are encouraged to meet all admission requirements prior to beginning the program, however students may take a maximum of twelve (12) semester hours of course work applicable to the program prior to admission.

Block Progression: Students should take courses in the sequence shown above.

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of “C” are permitted. Grades of “C-” or below will not be counted towards meeting program requirements.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

Master of Science in Elementary Education

Applicants for admission to the Master’s program in Elementary Education must hold or qualify for Florida certification or equivalent in elementary education (including practical teaching experience requirement), and satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 (sum of verbal and quantitative) on GRE. The applicants must submit GRE scores.

Degree Hours: (36)

Required Sequence of Courses:
Year 1 Fall

<table>
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<tr>
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Summer

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<td>Analysis and Application of Educational Research</td>
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Year 2 Fall

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<td>MAE 6318</td>
<td>Instruction in Elementary Mathematics</td>
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Spring

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<td>Instruction in Elementary Social Studies</td>
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Summer

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<tr>
<td>ARE 6315</td>
<td>Instruction in Elementary Art</td>
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</tr>
<tr>
<td>EDE 6488</td>
<td>Research in Elementary Education</td>
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</tr>
</tbody>
</table>

Entry to Program: Fall Semester - Students are encouraged to meet all admission requirements prior to beginning the program, however students may take a
maximum of twelve (12) semester hours of course work applicable to the program prior to admission.

Block Progression: Students should take courses in the sequence shown above.

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of "C" are permitted. Grades of "C-" or below will not be counted towards meeting program requirements.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

**Master of Science in Reading Education**

The Master of Science in Reading develops competencies in diagnosis and remediation, teaching of reading K to 12, and administration and supervision of remedial, corrective, developmental, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and preventing reading failure in schools or clinics.

Requirements for admission to the Master’s program in Reading are completion of an appropriate undergraduate teacher education program, satisfactory scholastic aptitude, as determined by the graduate admission standards a GPA 3.0 or 1000 (sum of verbal and quantitative) on the GRE; applicants are required to submit GRE scores. Applicants must have taught for a minimum of three years prior to receiving the Master’s degree in Reading.

This master’s track is designed to meet the needs of students interested in reading assessment and instruction. This track and the thesis track both lead to state certification.

**Degree Hours: (36)**

**Required sequence of courses:**

**Year 1 Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 5448</td>
<td>Teaching Reading by Computer</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6608</td>
<td>Social, Philosophical and Historical Foundations of Education</td>
<td>3</td>
</tr>
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**Summer**

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<th>Credit</th>
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<tr>
<td>RED 6314</td>
<td>Instruction in Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
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**Fall**

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<th>Credit</th>
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<tr>
<td>LAE 5415</td>
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<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
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**Year 2 Spring**

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<td>Language Arts</td>
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<td>RED 6336</td>
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**Summer**

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<tr>
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<td>Reading Diagnosis</td>
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</tr>
<tr>
<td>RED 6515</td>
<td>Reading Remediation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fall**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 6932</td>
<td>Special Topics in Reading: Classroom Action Research</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

**Entry to Program: Fall Semester**

Students are encouraged to meet all admission requirements prior to beginning the program, however students may take a maximum of twelve (12) semester hours of course work applicable to the program prior to admission.

Block Progression: Students should take courses in the sequence shown above.

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of "C" are permitted. Grades of "C-" or below will not be counted towards meeting program requirements.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

**Doctor of Education in Curriculum and Instruction**

The Department offers Curriculum and Instruction doctoral specialties in Early Childhood Education, Elementary Education and Reading Education.

**Admission Requirements**

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

1. A completed Application for Graduate Admission with appropriate fees.
2. An official copy of the Graduate Record Exam (GRE) scores.
3. Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Advanced Graduate Studies in the College of Education:

1. Three letters of reference attesting to the applicants ability to succeed in doctoral study.
2. A current resume/vita.
3. A statement that sets forth the applicant’s career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation is reviewed by program faculty. The criteria applied in reviewing the applicant’s file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work.
2. A 3.25 GPA in all graduate work attempted.
3. A master’s degree from an accredited institution.
4. A minimum combined verbal and quantitative score of 1000 on the GRE.
5. Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

**Curriculum and Instruction Core Courses**

(12)

- EDG 7222 Curriculum: Theory and Research 3
- EDG 7362 Instruction: Theory and Research 3
- EDG 7665 Seminar in Curriculum 3
- EDF 7934 Seminar in Social Foundations of Education 3

**Professional Education Core (6)**

- EDF 7937 Advanced Topics in the Social Foundations of Education 3
EDP 7008 Educational Psychology: Advanced Applications 3

1All doctoral students must enroll in EDF 7937 within their first year of admission.

Specialty Area: (36)
The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, music education, reading education, science education, and social studies education.

Cognate Area: (18)
The cognate area requires a minimum of 18 semester hours of course work in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the other departments of the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student's program.

Research and Statistics: (9)

Required Courses
 STA 6166 Statistical Methods in Research 3
 EDF 6486 Research Methods in Education: Design and Analysis 3

Prerequisite: EDF 5481 and STA 6166.

One of the following:
 EDF 6403 Quantitative Foundations of Educational Research 3
 or
 EDF 6475 Qualitative Foundations of Educational Research 3

Candidacy Examinations and Advancement to Candidacy
The student must successfully pass candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of Graduate Studies.

Dissertation (24)
The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including Summer semester).

EDG 7980 Doctoral Dissertation 24

Graduate Professional Certificate Program in Reading and Language Arts
The Reading and Language Arts Certificate Program enables teachers to extend their competence in reading and language arts instruction. Completion of the Certificate Program qualifies the teacher to receive Florida State Certification in Reading, grades K-12. Entrance requirements are an introductory reading course, and a 3.0 GPA in the last two years of college work. Students are required to have completed two years of full-time teaching prior to completing the program. Applicants should apply directly to the Director of the Reading Program.

Prerequisite Course
 RED 6314 Instruction in Elementary Reading 3
 or
 RED 6305 Instruction in Early Childhood Reading 3

Required Program
 EDF 5481 Analysis and Application of Educational Research 3
 LAE 5415 Children's Literature 3
 LAE 6355 Instruction to Elementary Language Arts 3
 RED 6546 Diagnosis of Reading Difficulty 3
 RED 6515 Programs of Remediation in Reading 3
 RED 6336 Readings in Content Area 3

Advised Elective
Two courses chosen from language-related courses.

1Elective courses are chosen from an approved list in consultation with a Reading Program advisor.
Educational Leadership and Policy Studies

Kingsley Banya, Professor and Chairperson, Curriculum and Instruction: Instructional Leadership
Leonard Bliss, Professor, Educational Research
Peter J. Cistone, Professor, Educational Leadership
Richard J. Correnti, Senior Lecturer, Higher Education, Educational Leadership & Policy Studies
Charles Divita, Jr., Professor, Adult Education and Human Resource Development
Stephen M. Fain, Professor, Curriculum and Instruction: Instructional Leadership
Allen Fisher, Associate Professor, Educational Leadership
Jo D. Gallagher, Associate Professor, Adult Education and Human Resource Development
Paul D. Gallagher, Associate Professor, Educational Research, and Senior Vice President, Business and Finance
Barry Greenberg, Professor, Educational Research, Higher Education
Sarah W. J. Pell, Professor, Educational Leadership
Janice R. Sandiford, Associate Professor, Higher Education
Judith J. Slater, Associate Professor, Curriculum and Instruction: Instructional Leadership
Douglas H. Smith, Associate Professor, Adult Education and Human Resource Development

The department also offers a Certificate Program in Educational Leadership for students who possess a graduate degree from an accredited institution of higher education and who seek State of Florida Certification in Educational Leadership. Specialties in elementary, middle, secondary, and higher education may be included in programs of study. The department also provides research preparation for College of Education graduate programs. The department graduate programs and support services exist to enhance the College of Education's role of a professional school within the University. The graduate programs and services provide access and offer excellence in professional preparation of educational leaders, researchers, and planners. The programs serve students who focus on South Florida's urban challenges; State of Florida cultural, economic, and social development; national educational policy development; and international cultural, economic, and social development through education.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Master of Science Degree Programs in Adult Education and Human Resource Development

The Graduate Programs in Adult Education and Human Resource Development (AE/HRD) are designed for the individual who chooses to serve as AE/HRD director/manager, instructional designer, teacher, instructor, trainer, counselor, and/or researcher. Graduates are working in AE and HRD programs in business and industry, public schools, hospitals, governmental agencies, community colleges, universities, civic associations, military service, and other agencies. Graduate programs of study are designed with regard to an individual's specific interests, needs, and career goals.

Two masters degree programs are offered: Adult Education and Human Resource Development.

Adult Education

The program in Adult Education is designed for persons interested in working in public school or higher education adult and continuing education. This program meets the requirements for state certification in public school adult education administration. It consists of a minimum of 36 hours, with 21 hours (seven courses) required, and a minimum of 9 hours (three courses) of elective courses.

Required Program: (36 hours minimum)

Required Core: (27):

ADE 5081 Introduction to Adult Education and Human Resource Development
ADE 5385 Adult Teaching and Learning
ADE 6180 Organizational/Community Processes in AE/HRD
ADE 6186 Comprehensive Program Evaluation in AE/HRD
ADE 6260 Management of AE/HRD Programs
ADE 6945 Internship in AE/HRD
EDF 5481 Analysis and Application of Education Research
EDF 6608 Social, Philosophical and Historical Foundations of Education
EDP 6211 Psychological Foundations of Education

Advised electives (9 hours minimum)

Human Resource Development (HRD)

The program in Human Resource Development is designed for persons interested in working in business and industry, government, health, and other similar organizations. The program consists of a minimum of 36 hours, with 30 hours (10 courses) required, and a minimum of 6 hours (two courses) of elective courses.

Required Program: (36 hours minimum)

Required Core: (24) (Courses are listed in required sequence)

ADE 5081 Introduction to Adult Education and Human Resource Development
ADE 5385 Adult Teaching and Learning
ADE 5383 Instructional Analysis and Design
A Master of Science in Educational Leadership

The Master of Science (M.S.) degree program in Educational Leadership comprises courses and experiences designed to develop entry level competencies in the practice of educational leadership. The program incorporates coursework that constitutes the "modified Florida program in educational leadership" [SBER 6A-4.0082] at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for state certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

1. A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester hours of undergraduate work; or
2. A minimum combined score of 1000 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
3. Three years of successful full-time teaching experience and a regular Florida teaching certificate.

Program of Study

**EDA 6061** Introduction to Educational Leadership 3
**EDA 6192** Leadership in Education 3
**EDA 6195** Communication in Educational Leadership 3
**EDA 6232** School Law 3
**EDA 6242** School Finance 3
**EDA 6271** Microcomputer Application for Administrators 3
**EDA 6930** Seminar in Educational Leadership 3
**EDF 5481** Analysis and Application of Educational Research 3
**EDS 6115** School Personnel Management 3
**EDF 6608** Social, Philosophical and Historical Foundations of Education 3
**EDP 6211** Psychological Foundations of Education 3
Advisor approved electives 6
Total Semester Hours 39

Six semester hours of approved electives must be earned in one of the following areas: Early Childhood, Middle School, Secondary School, or Exceptional Student Education. The selection of courses to meet this requirement requires the approval of a faculty advisor.

**Educational Specialist in Curriculum and Instruction**

**Educational Specialist Degree**

The Educational Specialist program in Curriculum and Instruction is designed to build upon the educator’s masters degree preparation and professional experience. The program introduces professional educators to the theoretical basis of curriculum and instruction and provides opportunities for students to connect theory with practice. The program requires a minimum of 36 semester hours beyond the masters.

Admission Requirements

Applicants must hold a masters degree in some area of education. A 3.0 GPA in the last 60 semester hours of undergraduate study or a 3.5 GPA in the master’s program from an accredited university and a combined verbal and quantitative score of 1000 on the Graduate Record Examination (GRE) are required. Two letters of recommendation and an interview with program faculty are also required. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

Core Courses:

**EDG 6250** General Curriculum Development 3
**EDG 6286** Curriculum Evaluation 3

**EDG 7222** Curriculum: Theory and Research 3
**EDG 7362** Instruction: Theory and Research 3
**EDG 7665** Seminar in Curriculum 3
**EDG 7934** Seminar in the Social Foundations 3
**EDP 7057** Educational Psychology: Advanced Applications 3
**EDF 7937** Advanced Topics in the Social Foundations of Education 3

**Research and Statistics:** (9)

Required Courses:

**STA 6166** Statistical Methods in Research 3
**EDF 6486** Research Methods in Education: Experimental Design and Analysis 3

1Prerequisite: EDF 5481 and STA 6166.

One of the following:

**EDF 6403** Quantitative Foundations of Education 3

**EDF 6475** Qualitative Foundations of Educational Research 3

Nine semester hours plus M.A./M.S. major area work for a total of at least 18 semester hours in the specialized area may be required. These courses are selected with faculty advisor in the area of specialization.

**Residency**

Students must complete a residency requirement by taking at least 18 semester hours in one calendar year.

**Transfer of Credit**

Students may transfer no more than 6 hours for their Master's Degree program. All transfer credit must be approved by the student's Program of Studies Committee.

**Educational Specialist in Educational Leadership**

The Educational Specialist (Ed.S.) degree program in Educational Leadership is intended to provide professional educators with an opportunity to develop competencies in areas of special needs and interests in the field of Educational Administration/Leadership. Consequently, there are few required courses and each student’s program is individually planned in consultation with a faculty advisor. The program may be used to satisfy part of the requirements of the Florida Department of Education for state certification in Educational Leadership.
Admission Requirements

Admission to the program is based on the following criteria:
1. A bachelor’s degree and a grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester hours of undergraduate work;
2. A master’s degree and a grade point average of at least 3.25 in all graduate work attempted;
3. A minimum combined score of 1000 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
4. Three years of successful full-time teaching experience and a regular Florida teaching certificate;
5. Three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence.

Program of Study

The program of study comprises a minimum of 39 semester hours and is planned in consultation with and approved by a faculty advisor. The structure of the program is as follows:

EDA 6061 Introduction to Educational Leadership 3
EDF 6608 Social, Philosophical and Historical Foundations of Education 3
EDF 6211 Psychological Foundations of Education 3
Guided electives in Educational Administration/Leadership 24
Guided electives in Research/Statistics/Measurement and Evaluation 6
Total Semester Hours 39

Doctor of Education Degree Programs

Common Minimum Admission Requirements

The College of Education has common admission requirements for its doctoral programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:
1. A completed Application for Graduate Admission with appropriate fees.
2. An official copy of the Graduate Record Exam (GRE) scores.
3. Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Advanced Graduate Studies in the College of Education:
1. Three letters of reference attesting to the applicant’s ability to succeed in doctoral study.
2. A current resume/vita.
3. A statement that sets forth the applicant’s career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation is reviewed by program faculty. The criteria applied in reviewing the applicant’s file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.
1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work;
2. A 3.25 GPA in all graduate work attempted;
3. A master’s degree from an accredited institution;
4. A minimum combined verbal and quantitative score of 1000 on the GRE;
5. Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise the Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or program faculty.

Professional Education Core

EDF 7937 Advanced Topics in the Social Foundations of Education 3
EDP 7057 Educational Psychology: Advanced Applications 3

All doctoral students must enroll in EDF 7937 within their first year of admission.

Research and Statistics Component of Doctoral Programs

A research requirement of nine semester hours, taken in the order listed, is common to all College of Education doctoral programs.

Research and Statistics Core (9 hours minimum)

STA 6166 Statistical Methods in Research I 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3

Prerequisite: EDF 5481 and STA 6166.

One of the following:

EDF 6403 Quantitative Foundations of Educational Research 3
EDF 6475 Qualitative Foundations of Educational Research 3

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass both written and oral candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of Graduate Studies.

Program Core (24-36 hours minimum)

Dissertation (24 hours minimum)

The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge. The doctoral dissertation is the final component of the series of academic experiences that culminate in the awarding of the Ed.D. degree. A successful dissertation is a demonstration of the candidate’s ability to use the tools and methods of basic and/or applied research in the field, to organize the findings, and to report them in a literate, logical, and compelling fashion.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, and favorable recommendations of the supervisory and guidance committee). A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being
prepared. Continuous enrollment in dissertation study is required (including summer semester).

Adult Education and Human Resource Development (AE/HRD)

The doctoral program in Adult Education and Human Resource Development (AE/HRD) is designed to serve the advanced graduate study needs of a wide range of professionals in leadership positions who are concerned with the design, implementation, and evaluation of educational and training programs for adults. These professionals may be engaged in program development and evaluation, instruction and training, counseling and advisement, consultation, and marketing and recruitment activities designed to further the growth and development of adult learners, or to improve organizational functioning through educationally-related intervention strategies, or both. Accordingly, participants in the program come from such diverse backgrounds as business and industry, higher education, public and proprietary schools, health and social service agencies, law enforcement and corrections, the military, governmental agencies, religious organizations, libraries and museums, and civic and professional associations.

Additional Admission Requirements

In addition to the admission requirements stated, the applicant must possess:
1. Evidence of commitment to a career in the broad field of Adult Education and HRD;
2. Successful professional experience in the field of Adult Education and HRD;
3. Potential for leadership or research in the field, or both.

A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

Program of Study

Doctorate programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs are planned by the participants, their major professor, and their program of studies supervisory committee.

Adult Education/Human Resource Development Core (18-24)

Adult Education and HRD core includes such courses as comprehensive Adult Education and HRD planning, program development, instructional design, adult teaching and learning, Adult Education and HRD trends and issues, strategies, and research.

Professional Education Core (6 hours minimum)

Electives (3-9)

Elective Core varies according to the participants' background and professional goals.

Research and Statistics (9)

Prospectus and Dissertation (24)

The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of Adult Education or Human Resource Development.

The student is expected to complete the dissertation within nine years from the date of admission to the AE/HRD doctoral program. A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including Summer semester).

Curriculum and Instruction


Additional Admission Requirements

In addition to the admission requirements stated, the applicant must possess:

1. Career goals in professional education consistent with the objectives of a doctoral program.
2. Appropriate prior work experience.

A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

Curriculum and Instruction Core Courses: (9)

EDG 7222 Curriculum: Theory and Research 3
EDG 7362 Instruction: Theory and Research 3
EDG 7665 Seminar in Curriculum 3

Professional Education Core (6)

EDF 7937 Advanced Topics in the Social Foundations of Education 3
EDP 7057 Educational Psychology: Advanced Applications 3

Specialty Area: (36)

The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, modern language education, music education, reading education, science education, and social studies education.

Cognate Area: (18)

The cognate area requires a minimum of 18 semester hours of course work in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student’s program.

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the School and to the Dean of Graduate Studies.

Dissertation (24)

The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to
knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study (including Summer semester) is required.

EDG 7980 Doctoral Dissertation 24

Educational Administration and Supervision

The doctoral program in Educational Administration and Supervision is designed for students who wish to pursue leadership roles in educational institutions. Among those roles are principals, supervisors, directors, and superintendents of public and independent schools; state, federal, and international agency administrators and staff; college and university administrators; and professors of Educational Administration and Supervision. The curriculum is designed to enable students to become familiar with and utilize effectively both theoretical and technical knowledge. The program of study is multidisciplinary and integrates broad intellectual perspectives into the study and practice of Educational Administration.

Additional Admission Requirements

In addition to the common admission requirements for doctoral programs in the College of Education, the applicant must:

1. Provide evidence of three years of successful and appropriate professional experience.
2. Engage in an interview with a committee of program faculty.
3. Receive a positive endorsement of the program faculty.

Program of Study

The program requires the completion of a minimum of 99 semester hours of academic work beyond the baccalaureate degree. Program requirements include the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Administration and Supervision</td>
<td>33</td>
</tr>
<tr>
<td>Minor/Cognate Area</td>
<td>15</td>
</tr>
<tr>
<td>Professional Education Core</td>
<td>6</td>
</tr>
<tr>
<td>Research and Statistics Core</td>
<td>9</td>
</tr>
</tbody>
</table>

Upon completion of the coursework, each student must pass a doctoral candidacy examination and be advanced to candidacy.

Doctoral Dissertation (EDA 7980) 24

A candidate for the doctorate in Educational Administration and Supervision is required to prepare and present for faculty approval a doctoral dissertation that demonstrates a capacity for independent thought and for the application of tools and methods of research to educational issues and problems.

Higher Education

The doctoral program in Higher Education is Practitioner oriented designed to provide the opportunity for specially selected students to enhance instructional, administration, and research skills related to the continuing development and operation of higher education institutions. The program is offered in a format to make it attractive and available to place bound professionals in Southeast Florida. The program is designed to stimulate research related to higher education, particularly in the development of innovative administrative and instructional approaches appropriate for urban settings. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

Post-baccalaureate coursework should be considered in light of the following:

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher Education Core (21)</td>
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<tr>
<td>EDH 7065 Higher Education:</td>
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</tr>
<tr>
<td>Philosophical and Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7204 Higher Education:</td>
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<tr>
<td>Community College</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7222 Curriculum Theory and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional courses in Education that will enhance the student’s instructional and/or administrative abilities and skills.

In addition to one of the above specialties, the following are required:

Professional Education Core (6)

Cognate Area: (18)

The cognate area may be taken in one or more subject areas and may include graduate or undergraduate (post-baccalaureate) courses. The design of the cognate for Higher Education Instruction should assist the student in developing into a well-rounded teacher, one who is able to adapt to changing conditions of instruction. The design of the cognate for Higher Education Administration should assist the student in developing essential administrative leadership skills.

Research and Statistics Core: (9)

The research and statistics requirement is designed to assist the student in expanding the capacity to use research related to instruction.

Dissertation: (24)

The dissertation should be on a topic of importance to higher education and should reflect the student’s professional interests and goals.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including summer semester).

Educational Leadership

The Certificate Program in Educational Leadership is designed for students who have a master’s degree in a subject or field of Education other than Educational Administration/Leadership. The coursework constitutes the “modified Florida program in educational leadership” (SBER 6A-4.0082) at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

1. A master’s degree;
2. A regular Florida teaching certificate;
3. Three years of successful full-time teaching experience;
4. And, in addition to the above, any of the following: (a) a minimum combined score of 1000 on the verbal and quantitative portions of the Graduate Record examination (general Test) or (b) a grade point average of at least 3.0 (on a 4.0 scale) in the last 60 hours of undergraduate work.

Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 6192</td>
<td>Leadership in Education</td>
<td>3</td>
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<tr>
<td>EDA 6195</td>
<td>Communication in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>School Law</td>
<td>3</td>
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<tr>
<td>EDA 6242</td>
<td>School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6271C</td>
<td>Microcomputer Applications for Administrators</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6115</td>
<td>School Personnel Management</td>
<td>3</td>
</tr>
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</table>

Advisor approved elective in Curriculum and Instruction | 3
Total semester hours | 24

Educational Psychology and Special Education

Patricia Barbeta, Chairperson
Associate Professor, Emotionally Handicapped

Linda P. Blanton, Dean and Professor,
Special Education

Michael P. Brady, Professor, Special Education

Judith Cohen, Special Education
Field Placement Coordinator

Wendy Cheyney, Associate Professor and Associate Dean, Learning Disabilities

Patricia del Valle, Assistant Professor, School Psychology, Educational Psychology

Marial Gavilan, Associate Professor, Educational Psychology/Bilingual Education

Maureen Kenny, Assistant Professor, Mental Health Counseling

Philip J. Lazarus, Associate Professor, School Psychology, Educational Psychology

Luretha F. Lucky, Associate Professor, Mental Retardation

Adriana Mceachern, Associate Professor, Counselor Education, Educational Psychology

Martha Pelaez, Associate Professor, Educational Psychology, Behavior Analysis

Ana Rego, Visiting Professor, Special Education

Howard Rosenberg, Associate Professor, Mental Retardation

Shinta Shukla-Mehta, Assistant Professor, Special Education

Stephen S. Strichart, Professor, Learning Disabilities

Jethro W. Toomer, Professor, Community Mental Health Counseling

The Department of Educational Psychology and Special Education offers a variety of programs to prepare counselors to work in school and community mental health settings, psychologists to work in the schools, and teachers of students who have emotional disturbance, learning disabilities, and mental retardation and those who are gifted. All programs require substantial supervised fieldwork. State of Florida certification requirements are met or are prerequisites for all programs preparing school personnel.

It is recommended that students meet with an advisor throughout the program to assure adequate progress.

Master of Science
Community Mental Health Counseling
School Counseling
Special Education
Varying Exceptionalities (Alternate Track Masters Degree)

Educational Specialist
School Psychology
Doctor of Education
Exceptional Student Education

Master of Science Degree Programs

Educational Psychology

Programs within the field of Educational Psychology are designed to train professionals to meet the unique needs of individuals who experience cognitive, academic, and/or social-emotional difficulties that interfere with the individual's progress in school and in the community. Specific competencies are delineated for professionals in the field of school counseling, community mental health counseling, and school psychology.

These programs emphasize the blending of research and theory with practical applied experience. They consider the urban and multicultural nature of the community, as well as more general trends within specific fields. All programs involve extensive field work with accompanying seminars. Independent study courses are available to allow students to pursue specialized interests and needs.

Applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, as well as all official transcripts to the Office of Admissions at the University. Three letters of recommendation (at least one from academic sources and one from work or volunteer experience), an autobiographical statement and a curriculum vitae (resume) need to be submitted to the Department's Graduation Admissions Committee. Candidates are admitted by action of the Department's Graduation Admissions Committee. Minimum criteria for program acceptance include appropriate GRE scores, undergraduate grade point average during junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 'B' or higher during the undergraduate junior and senior years (i.e. last 60 semester
Counselor Education Tracks

The counselor education tracks require 60 semester hours, for the Mental Health track and 54 semester hours for the School Counseling track and leads to the Master of Science degree. The tracks follow a competency based model, the early part of which is largely generic in nature and is concerned with the development of knowledge and skills in the areas of individual and group counseling, consultation, preventive mental health, educational-vocational development, client appraisal, systems intervention, and model program organization and evaluation. The latter part of the program is more differentiated, and enables a specialization in either community mental health or school counseling. Both areas of specialization meet the standards recommended by the American Counseling Association and specialization in school counseling qualifies the graduate for the Florida School Guidance Certificate. The Community Mental Health Counseling curriculum meets the master's degree requirement for eligibility towards licensure as a mental health counselor by the State of Florida, Department of Professional Regulation.

The prospective student should be advised that a substantial amount of time is spent in field work to meet practicum and internship requirements. Completion of the practicum and internship requirement involves field placement on a full-time basis for the last two semesters in the program. The student should plan for this field work to be during the day, rather than during evening hours. Program completion is not compatible with full time employment.

All students entering the School Counseling track with an undergraduate degree in an area other than education must enroll for courses in general professional education as required by the Florida State Department of Education in order to meet state certification requirements in Florida.

Students applying to the Community Mental Health Counseling program with an out-of-field undergraduate major must complete 18 hours of prerequisite course work.

Students enrolling in courses under Special Student status, must meet all existing prerequisites prior to course enrollment and obtain permission of the instructor. Due to the importance of continuity in skill development for counselor training, required prerequisites must be met within a two year period prior to enrollment. Additionally, instructor permission may be required.

Community Mental Health Counseling

Degree Hours: (60)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MHS 6700</td>
<td>Professional Problems in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5400</td>
<td>Counseling Skills and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6513</td>
<td>Human Interaction I: Group Process and Social Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6410</td>
<td>Behavioral and Cognitive Modification Techniques in Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6514</td>
<td>Human Interaction II</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6411</td>
<td>Advanced Counseling and Consultation: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6200</td>
<td>Appraisal and Measurement in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5350</td>
<td>Educational-Vocational Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6630</td>
<td>Program Evaluation in Counseling &amp; School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6800</td>
<td>Advanced Practicum in Counseling and Consultation</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6820</td>
<td>Supervised Field Experience Counseling</td>
<td>10</td>
</tr>
<tr>
<td>MHS 6930</td>
<td>Special Topics in Counseling and School Psychology</td>
<td>(1, repeatable to 9)</td>
</tr>
<tr>
<td>MHS 6428</td>
<td>Cross Cultural Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Advisor approved electives

'Students should consult with program advisor regarding courses required by the Department of Business and Professional Regulation for certification eligibility as a Mental Health Counselor.

Community Mental Health Counseling (beginning Fall 2000)

All students admitted to the program beginning Fall 2000 will follow the course of study outlined below (pending College and University Curriculum Committee approval). This program meets the new standards of the Department of Business and Profes-
sional Regulation in the State of Florida.

Degree Hours: (60)
EDP 6506 Human Development: Across the Lifespan 3
MHS 5400 Counseling Skills and Techniques 3
MHS 6802 Personality Theories 3
MHS 6511 Group Counseling 3
MHS 5350 Educational-Vocational Counseling 3
MHS 6428 Cross Cultural Counseling 3
MHS 6200 Measurement and Appraisal in Counseling 3
EDF 5481 Analysis and Application of Educational Research 3
MHS 6700 Professional Problems in Counseling 3
MHS xxxx Foundations of Mental Health Counseling 3
MHS 6411 Advanced Counseling and Consultation: Theory and Practice 3
MHS 6427 Adult Psychopathology 3
MHS 6450 Substance Abuse Counseling 3
MHS 6470 Human Sexuality Counseling 3
MHS 6800 Advanced Practicum in Counseling and Consultation 9
MHS 6820 Supervised Field Experience Counseling 9

Note: This program of study is subject to change at anytime based on state mandates.

School Counseling Degree Hours: (54)
Professional Studies: (9)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6608 Social, Philosophical, Historical Foundations of Education 3
EDF 6211 Educational Psychology 3
Counseling Core: (18)
MHS 5350 Educational-Vocational Counseling 3
MHS 5400 Counseling Skills and Techniques 3
MHS 6200 Measurement and Appraisal in Counseling 3
MHS 6428 Cross Cultural Counseling 3
MHS 6511 Group Counseling 3
MHS 6802 Personality Theories 3
Counseling Specialization: (18)
SDS 6411 Counseling Children and Adolescents 3
SDS 6700 Organization and Administration of School Counseling 3
SDS 6784 School Law for Student Services Workers 3
SPS 6199 Family, School Consultation and Collaboration 3
EEX 6051 Education of Students with Exceptionalities 3

Professional Clinical Experiences: (9)
SDS 6800 Advanced Practicum in Counseling and Consultation 3
SDS 6820 Supervised Field Experience in Counselor Education 9

Corequisites: Students who do not hold a Florida Teacher’s Certificate must complete 6 credits of courses covering general methods of teaching requirements prior to graduation. Students must also show proof of passing the Teacher Competency Examination. Application for professional experiences must have faculty advisor approval and must be submitted to the office of the director of student teaching by March 1 for fall semester placements and July 1 for spring placements.

Special Education
The Department offers two master’s degrees and a doctoral program in Special Education.

The Master’s Program in Special Education is for students already certified in an area of Exceptional Student Education. It consists of a common core of 27 credits in advanced areas of special education, plus a choice of 9 credits in an area of concentration. Some areas of concentration may lead to additional endorsement or certification. Special areas of concentration may be planned with the advisor. This program has a total of 36 credits.

The Alternate Track Master’s Program in Varying Exceptionalities is for students holding a baccalaureate degree in an area other than education. It provides the student with entry level skills for teaching students with mild disabilities and the appropriate course work to be certifiable in varying exceptionalities. In addition, several advanced theory and research courses are required. A second Alternate Track Master’s Degree is available for students who already hold a teaching certificate in Elementary Education.

The Doctoral Program in Exceptional Student Education prepares students for administrative, supervisory, research, and or university faculty positions in Special Education.

Master of Science Degree in Special Education
The major competencies in the Master’s Degree program in Special Education are an extension and refinement of those developed by the student in the undergraduate special education curriculum, and include: a) assessment of learning through observation and on-going monitoring techniques; b) application of behavioral approaches to the building, monitoring and modification of classroom behavior; c) communication of information concerning children to others within the school and to parents, d) curriculum planning and innovation including staffings and IEP development; e) supervision and leadership of special education classrooms; and f) consultation skills.

Program applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department’s Graduate Admissions Committee. Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate’s career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 3.0 or higher, during the undergraduate junior and senior years is required for a candidate to be admitted via regular procedures. Regardless of the GPA, the applicant must submit a GRE score. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements.

Professional Certificate programs are available in a number of specialized areas. Consult the program faculty for further information.
In-Field Majors
The following Master’s program of study is for the student who holds an undergraduate degree in Special Education from Florida International University. A student with an undergraduate major in Special Education from another institution must plan a program with an academic advisor to ensure having the entry skills for this program.

Degree Program Hours: (36)
Required Core For All Students: (27)
- EDF 6608 Social, Philosophical, and Historical Foundations of Education 3
- EDP 6211 Educational Psychology: Foundations and Applications 3
- EDF 5481 Analysis and Application of Educational Research 3
- EEX 6846 Seminar in Special Education: Issues and Trends 3
- EEX 6535 Seminar in Special Education: Supervision and Leadership 3
- EEX 6912 Advanced Theory and Research in Special Education 3
- SPS 6199 Family/School Consultation and Collaboration 3
- EEX 6765 Instructional Technology 3
- EEX 6228 Integration of Assessment, Curriculum and Instruction 3

Optional
- EEX 6971 Masters Thesis 6

Area of Concentration 9
Area of concentration may be selected from an endorsement such as Gifted, ESOL, or as planned and approved by student and advisor.

Gifted Education (Endorsement)
- EEX 6417 Guidance and Counseling of Gifted 3
- EGI 5051 Nature and Needs of Gifted 3
- EGI 5232 Educational Procedures and Curriculum for the Gifted 3
- EGI 6306 Creativity and the Gifted 3
- EGI 6405 Gifted Minority Students 3

Special Education Masters for Students Holding a Florida Certification in Elementary Education
This 42-45 credit program includes professional studies and special education core courses with four different certification options. This track with one of the selected options includes courses that commonly allow students to obtain course-by-course certification from the state on one of four areas of special education: emotional handicaps, learning disabilities, mental handicaps, and/or varying exceptionalities.

This is NOT a certification program. Students will be required to apply for course-by-course certification from the state of Florida. Special education advisors will assist students in this process. With additional courses, this program may also be appropriate for those holding other teaching certificates.

Professional Studies Core
- EDF 5481 Analysis and Application of Educational Research 3
- EDF 6608 Social, Philosophical, and Historical Foundations of Education 3
- EDP 6211 Psychological Foundations of Education 3

Special Education Core
- EEX 6765 Instructional Technology for Special Education 3
- SPS 6199 Family/School Consultation and Collaboration 3
- EEX 6051 Education of Students with Exceptionalities 3
- EEX 6227 Educational Assessment 3
- EEX 6771 Independent Living for Individuals with Disabilities 3
- EEX 6106 Acquisition of Speech and Language Skills 3
- EEX 6608 Applied Behavior Analysis in Education 3
- EEX 6228 Integration of Curriculum, Assessment, and Instruction 3

Certification Option #1: Emotionally Handicapped
- EED 6226 Advanced Theory and Practice in Emotional Handicaps 3

Certification Option #2: Learning Disabilities
- ELD 6323 Advanced Theory and Practice in Learning Disabilities 3
- ELD 5235 Strategies for Students with Learning Disabilities 3
- ELD 4230 Curriculum for Teaching Students with Learning Disabilities 3

Certification Option #3: Mentally Handicapped
- EMR 6852 Advanced Theory and Practice in Mental Retardation 3
- EMR 5215 Strategies for Students with Mental Retardation 3
- EMR 4221 Curriculum for Teaching Students with Mental Retardation 3

Certification Option #4: Varying Exceptionalities
- EED 5225 Strategies for Students with Emotional Handicaps 3
- ELD 5235 Strategies for Students with Learning Disabilities 3
- EMR 5215 Strategies for Students with Mental Retardation 3
- EEX 6060 Curriculum for Teaching Students with Mild 3

Out-of-Field Majors
Students with certification in Elementary Education may enter the Master’s degree program in Special Education by meeting the standard entrance requirements and completing the course work which enables them to be certified in an area of exceptional student education. The required Special Education Core courses and the specialization course requirements are listed below.

Students certified in an area other than Elementary Education should see an advisor for an individual program of study analysis.

A student eligible for or holding a Florida Teaching Certificate in other areas of education should consult with
an academic advisor for evaluation of entry competencies to the program.

**Required Special Education Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EEX 6051</td>
<td>Education of Students with Exceptionalities</td>
<td>3</td>
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<tr>
<td>EEX 6106</td>
<td>Acquisition of Speech and Language Skills</td>
<td>3</td>
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<td>EEX 6227</td>
<td>Educational Assessment of Students with Exceptionalities</td>
<td>3</td>
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<td>EEX 6608</td>
<td>Applied Behavior Analysis in Education</td>
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</tr>
<tr>
<td>EEX 6771</td>
<td>Independent Living for People with Disabilities</td>
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**Specialization Requirements**

Varying Exceptionalities

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<tr>
<td>EEX 4240</td>
<td>Nature and Needs of Students with Mild Disabilities</td>
<td>3</td>
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<tr>
<td>EED 5225</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6060</td>
<td>Curriculum Planning and Development in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>ELD 5235</td>
<td>Strategies for Teaching Students with Learning Disabilities</td>
<td>3</td>
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<tr>
<td>EMR 5215</td>
<td>Strategies for Teaching Students with Mental Retardation</td>
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**Mental Retardation**

<table>
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<tr>
<td>EMR 4221</td>
<td>Curriculum for Teaching Students with Mental Retardation</td>
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<tr>
<td>EMR 5215</td>
<td>Strategies for Teaching Students with Mental Retardation</td>
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<tr>
<td>EMR 6852</td>
<td>Advanced Theory and Practice: Mental Retardation</td>
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**Learning Disabilities**

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<tbody>
<tr>
<td>ELD 4230</td>
<td>Curriculum for Teaching Students with Learning Disabilities</td>
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<tr>
<td>ELD 5235</td>
<td>Strategies for Teaching Students with Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELD 6323</td>
<td>Advanced Theory and Practice: Learning Disability</td>
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**Emotionally Handicapped**

<table>
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<tr>
<td>EED 4212</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
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<tr>
<td>EED 4244</td>
<td>Curriculum for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EED 5225</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
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**Professional Studies**

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<th>Course Title</th>
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<tbody>
<tr>
<td>EED 6226</td>
<td>Advanced Theory and Practice: Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EED 5225</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>ELD 5235</td>
<td>Strategies for Teaching Students with Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
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<tr>
<td>EEX 6912</td>
<td>Advanced Theories and Research in Special Education</td>
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<tr>
<td>EEX 6862</td>
<td>Student Teaching or</td>
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<td>EEX 6863</td>
<td>Supervised Field Experience</td>
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To Add: Specific Learning Disabilities:

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<tbody>
<tr>
<td>ELD 4230</td>
<td>Curriculum for Teaching Students with Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELD 6323</td>
<td>Advanced Theory and Practice: Learning Disability</td>
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To Add: Mental Retardation:

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<th>Course Title</th>
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<tbody>
<tr>
<td>EMR 4221</td>
<td>Curriculum for Teaching Students with Mental Retardation</td>
<td>3</td>
</tr>
<tr>
<td>EMR 6852</td>
<td>Advanced Theory and Practice: Mental Retardation</td>
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To Add: Emotionally Handicapped

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
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<td>Behavioral Approaches to Classroom Learning</td>
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</tr>
<tr>
<td>EED 5225</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
<td>3</td>
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</tbody>
</table>

**Educational Specialist in School Psychology**

The program in School Psychology requires a minimum of 80 semester hours and leads to State of Florida certification as a specialist in School Psychology as well as educational requirements for private practice licensure. This program leads to the Educational Specialist Degree. More complete program descriptions may be obtained in the departmental office or call (305) 349-2552.

The competencies to be demonstrated by the student completing this program are derived from the following: behavioral/educational assessment and planning; counseling and home-school consultation and collaboration with teacher, parents, and school staff; crisis intervention; classroom inter-
visions; liaison referral, program development and evaluation; inservice education; and community outreach.

**Degree Hours: (80)**

**Professional School Psychology (3)**

SPS 6805  Professional Problems and Issues in School Psychology  3

**Psychological Foundations (15)**

MHS 6513  Human Interaction I: Group Process and Social Behavior  3

SDS 6930  Child/Adolescent Psychopathology  3

EEX 6208  Medical Aspects of Disability  3

EDP 6211  Educational Psychology  3

EDP 6505  Human Development: Child and Adolescent  3

**Educational Foundations (9)**

EDF 6608  Social, Philosophical and Historical Foundations of Education  3

EEX 6227  Educational Assessment of Students with Exceptionalities or

SPS 6930  Academic and Behavioral Interventions in the Schools  3

EEX 6912  Advanced Theory and Research in Special Education or

EEX 6051  Exceptional Children and Youth  3

**Psycho-Educational Assessment (16)**

SPS 6191  Psycho-Educational Assessment I: Intellectual  3

SPS 6191L  Psycho-Educational Assessment I: Lab  2

SPS 6192  Psycho-Educational Assessment II: Process  3

SPS 6192L  Psycho-Educational Assessment II: Lab  2

SPS 6193  Psycho-Educational Assessment III: Behavior  3

EDF 6444  Assessment Consultation and Collaboration for Culturally and Diverse Populations  3

**Interventions, Counseling & Specialized Techniques (15)**

MHS 5400  Counseling Theories and Skills  3

MHS 6410  Behavioral and Cognitive Modification Techniques in Counseling and Education  3

SDS 5460  Crisis Counseling and Intervention  3

SPS 6199  Family-School Collaboration and Consultation  3

MHS 6411  Advanced Counseling and Consultation: Theory and Practice or

MHS 6511  Group Counseling with Children and Adolescents or

SDS 6411  Counseling Children and Adolescents  3

**Statistics, Measurement, Program Evaluation & Research Design (6)**

EDP 5481  Analysis and Application of Educational Research Education  3

MHS 6630  Program Evaluation in Counseling and School Psychology or

EDP 7058  Behavioral Intervention Research and Evaluation in Education  3

**Practicum (3)**

SPS 6193  Psycho-Educational Assessment III: Practicum  3

**Internship (10)**

SPS 6678  Supervised Field Experience in School Psychology (1200 clock hours)  10

*Students are required to take one elective (3 credits).*

The student is required to enter an internship in School Psychology under the supervision of a field based school psychologist for a period of 1200 clock hours. This internship is a full-time, eight hour day, five day week hour involvement and students entering the program should plan for it during the final stage of their training. At least 600 hours of the internship must be in a setting from kindergarten to grade 12 in a public school. Other approved internship experiences may include private state approved educational programs or other appropriate mental health-related programs or settings for the education of children and youth.

All students entering the School Psychology track with an undergraduate degree in an area other than education must enroll for the courses in general professional education required to meet certification requirements in the State of Florida. All applicants must also have completed 15 hours of prerequisite undergraduate course work in psychology.

Former recipients of the MS degree in School Psychology at this institution may upgrade their degree to the Ed.S. by taking a sequence of courses approved by the department.

**Doctor of Education in Exceptional Student Education**

The Doctoral Program in Exceptional Student Education prepares leadership personnel capable of advancing educational opportunities available to students with disabilities and the professional who serves them. The program prepares professionals for a broad view of leadership, capable of assuming roles as administrator, curriculum specialist, researcher, advocate, inservice and preservice trainer and others. Graduates take on leadership positions in schools, state government, private non-profit agencies, professional organizations, and other institutions of higher education.

**Admission Requirements**

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

1. A completed Application for Graduate Admission with appropriate fees.
2. An official copy of the Graduate Record Exam (GRE) scores.
3. Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Advanced Graduate Studies in the College of Education.

1. Three letters of reference attesting to the applicants ability to succeed in doctoral study.
2. A current resume/vita.
3. A portfolio that sets forth the applicant’s career goals and relates these goals to the completion of the doctoral program. See department application for guidelines.

No action will be taken on incomplete files. A file is considered
incomplete if any of the above is missing.

The application and all supporting documentation is reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work;
2. A 3.25 GPA in all graduate work attempted;
3. A master's degree from an accredited institution;
4. A minimum combined verbal and quantitative score of 1000 on the GRE;
5. Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file, the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program.

A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.

Professional Studies Core: (6)
EDP 7057 Educational Psychology: Advanced Applications 3
EDF 7937 Advanced Topics in Social Foundations of Education 3

Special Education Core: (18)
EEX 7930 Professional Seminar in Special Education (repeated 6 times) 1
EEX 7933 Advanced Topics in Special Education (repeated 2 times) 6
EEX 6912 Advanced Theory and Research in Special Education 3
EEX 6535 Seminar in Special Ed.: Supervision and Leadership 3
EEX 7977 Research and Evaluation in Special Education 3
EEX 7964 Comprehensive Examination 0

Note: Revisions to the Special Education core will take effect during the Fall 1999 semester. Please obtain guidelines from the Department.

Research Methods and Statistics:
(12)
STA 6166 Statistical Methods in Research 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3
EDP 7058 Behavioral Intervention and Research and Evaluation in Education 3
EDF 6403 Quantitative Foundations of Education 3
EDF 6475 Qualitative Foundations of Educational Research

Cognate or Minor Area of Study (15-18)
Course work in a career emphasis including: Administration and Supervision, Educational Psychology, or a self-designed minor area of study.

Dissertation Study (24)
EEX 7980 Doctoral Dissertation 24

Other Requirements:
Leadership competency activities, candidacy research, candidacy examination, residency (18 credits within one calendar year), dissertation proposal, dissertation, oral defense of dissertation.

Doctoral Cognate in Educational Psychology
The doctoral cognate in Educational Psychology provides advanced professional development for students already working toward the Doctor of Education in a number of majors available within the College.

The cognate prepares students in one of three areas of educational psychology: 1) learning and instruction, 2) individual differences in development, and 3) measurement and assessment. The cognate provides students with foundational and advanced applications of psychology by offering alternative programs of study. It also gives students the opportunity to work with faculty members in educational psychology, school psychology, school counseling, mental health, and special education programs and departments. A student who completes the cognate in Educational Psychology at the doctoral level is expected to: a) apply psychological principles to contemporary issues in education; b) seek ways to improve educational practice, evaluation, and assessment; c) develop innovative and facilitative teaching/learning procedures at all developmental levels; and d) analyze the major psychologically based programs for educational reform. The cognate assists doctoral students to design research in their individual fields of study.

Course Requirements
Required Core (9 credits)
EDP 6215 Applications of Learning Theory to Instruction or
EDP 6301 Cognitive Psychology in Education 3
EDP 6505 Human Development: Childhood and Adolescence or
EDP 6506 Human Development: Adulthood and Aging 3
EDF 5432 Measurement and Evaluation in Education or
EDP 7058 Behavioral Intervention Research and Evaluation 3

Option 1: Learning and Instruction (9 credits)
Select THREE of the following courses:
EDP 6301 Cognitive Psychology in Education
EDP 6211 Educational Psychology: Principles and Applications
EDG 7362 Instruction: Theory and Research
EEX 6608 Applied Behavior Analysis in Education
EDP 6186 Social Development and Learning
EAB 5098 Seminar in Behavior Analysis

Option 2: Individual Differences in Development (9 credits)
Select THREE of the following courses:
EDP 6505 Human Development: Childhood and Adolescence
EDP 6506 Human Development: Adulthood and Aging
DEP 5608 Theoretical Perspectives Development
CHD 5266 Advanced studies in Child Development
DEP 5405 Proseminar in Adulthood and Aging
DEP 5056 Issues in Life-span Developmental Psychology
DEP 5069 Applied life-span Developmental Psychology
EAB 6707 Developmental Behavior Analysis

Option 3: Measurement and Evaluation (9 credits)
Select THREE of the following courses:
EDF 6212 Research Problems in Educational Psychology
MHS 6630 Program Evaluation in Counseling and School Psychology
EDP 7058 Behavioral Intervention Research and Evaluation
MHS 6200 Measurement and Appraisal in Counseling Psychology
CYP 6526 Psychological Methods of Program Evaluation
CLP 6437 Behavioral Assessment in Childhood
DEP 5796 Methods in Developmental Psychology
EDP 7977 Candidacy Research and Evaluation

Note: All DEP courses have DEP 3000 Human Growth and Development as prerequisite. All EDF courses have EDF 3004 Introduction to Educational Psychology as prerequisite. EHB 4601 Applied Behavior Analysis (or equivalent) is a prerequisite for EAB 6707.

Certificate and Add-On Certification Programs

In order to meet the needs of teachers not wishing to enter a Master's Degree program, but who wish to complete state certification in a sequential and planned program of study, the University has established three Professional Certificate Programs:
Specific Learning Disabilities, Emotional Disturbance, and Mental Retardation. The entrance requirement is eligibility for or possession of a Florida Teaching Certificate in elementary education.

In the event a student enrolled in the Professional Certificate Program elects to apply course work taken toward meeting the requirements for a Master of Science Degree, the student must follow the stipulated entrance procedures for the Master's Degree program.

Specific Learning Disabilities
ELD 4230 Curriculum for students with Learning Disabilities 3
ELD 4240 Strategies for Teaching Students with Learning Disabilities 3
ELD 6323 Advanced Theory and Practice: Learning Disability 3
EEX 6051 Education of Students with Exceptionalities 3
EEX 6106 Acquisition of Speech and Language Skills 3
EEX 6227 Educational Assessment of Students with Exceptionalities 3
EEX 6608 Applied Behavioral Analysis in Education 3
EEX 6771 Independent Living for Students with Exceptionalities 3

Emotional Disturbance
EED 4212 Behavioral Approaches to Classroom Learning II 3
EED 4243 Strategies for Teaching Students with Emotional Handicaps 3
EED 4244 Curriculum for Teaching Students with Emotional Handicaps 3
EED 6226 Advanced Theory and Practice: Emotional Handicaps 3
EEX 6051 Education of Students with Exceptionalities 3
EEX 6106 Acquisition of Speech and Language Skills 3
EEX 6227 Educational Assessment of Students with Exceptionalities 3
EEX 6608 Applied Behavioral Analysis in Education 3
EEX 6771 Independent Living for Students with Exceptionalities 3

Mental Retardation
EEX 4601 Behavioral Approaches to Classroom Learning 3
EEX 6051 Education of Students with Exceptionalities 3
EEX 6106 Acquisition of Speech and Language Skills 3
EEX 6227 Educational Assessment of Students with Exceptionalities 3
EEX 6608 Applied Behavioral Analysis in Education 3
EEX 6771 Independent Living for Students with Exceptionalities 3

EMR 4221 Curriculum for Teaching Students with Mental Retardation 3
EMR 4362 Strategies for Teaching Students with Mental Retardation 3
EMR 6852 Advanced Theory and Practice: Mental Retardation 3

'Extensive field work required.

Program for School Guidance and Counseling Certification
To provide a systematic curricula as a means of obtaining the Florida Guidance Counselor (PK-12) Certificate for those who already possess a master's degree in Education or Counseling and do not wish to pursue a second master's degree.

Admission Requirements
Application for admission is to be made to the Department of Educational Psychology Graduate Admissions Committee. The criteria for admissions includes: possession of a master's degree in education, counseling or other approved area, transcripts of all college credits, autobiographical form, and three letters of recommendation.

Required Program: (36)
EDF 6211 Psychological Foundations of Education 3
MHS 6802 Personality Theories 3
MHS 5400 Counseling Skills and Techniques 3
MHS 6410 Behavioral and Educational Modification Techniques in Counseling and Education 3
SPS 6199 Family-School Consultation and Collaboration 3
SDS 6700 Organization and Administration of School Counseling 3
MHS 6200 Appraisal in Counseling 3
MHS 5350 Educational-Vocational Counseling 3
MHS 6511 Group Counseling 3
SDS 6784 School Law for Student Service Workers 3
MHS 6428 Cross Cultural Counseling 3
Educational Foundations and Professional Studies

John A. Carpenter, Professor and Chairperson, Educational Foundations and International and Intercultural Development Education, and Higher Education
Carlos M. Alvarez, Associate Professor, International Development Education, Educational Psychology
Erskine S. Dottin, Professor, Educational Foundations, Politics of Education
Miguel Angel A. Escotet, Professor, Educational Foundations, International and Intercultural Development Education and Research
Robert V. Farrell, Associate Professor Educational Foundations, International Development Education
Rosa Castro Feinberg, Associate Professor, Educational Foundations, Bilingual Education/TESOL
Della Garcia, Assistant Professor, Educational Foundations, Urban Education, TESOL
I. Ira Goldenberg, Professor, Educational Foundations and Urban Education
Deborah Hasson, Instructor, Educational Foundations, and Urban Education, and TESOL
Patricia A. Killian, Assistant Professor, Teaching English as a Second Language
Aixa Perez-Prado, Assistant Professor, Teaching English as a Second Language and Educational Foundations
Colleen A. Ryan, Associate Professor, Educational Psychology and Educational Foundations
M.O. Thirumurayanan, Associate Professor, Learning Technologies
S.L. Woods, Associate Professor, Educational Foundations, and General Methodology

General Information
The Department is fully committed to two guiding missions of the College of Education: to support the preparation of educators, to pursue research in social, philosophical, multicultural and general methodological needs of schools and post-secondary institutions, and to provide technical assistance in multicultural, social and philosophical development in education. The Department oversees graduate programs and courses for students who are interested in working in various fields.

Master of Science
The Department of Educational Foundations and Professional Studies offers programs in:

- International Intercultural Development Education
- Teaching English to Speakers of Other Languages (TESOL)
- Urban Education

Furthermore, it directs doctoral programs specialty tracks in International Intercultural Development Education, TESOL, Social and Philosophical Foundations of Education and Comparative Education.

The Department also coordinates the Foundations of Education courses and the Professional Education Core. It houses the Miami-Dade County Public School/FIU Urban Education Program, which is comprised of the Urban Education Certificate Program and the Master’s Degree in Urban Education with specialty track options in Urban Education, Instruction in Urban Settings, Multicultural Education and TESOL and Multicultural/Bilingual Education.

All stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Master of Science in International Development Education

The Master of Science degree in International Development Education (IIDE) is designed to provide graduate training to students interested in acquiring skills as specialists in educational development within the context of a changing society. The program places special emphasis on planning, management, research, and evaluation skills. Such skills are developed in relation to a specific area of educational specialization and with a special emphasis on understanding the influence of the social context of education on educational development and change.

Admission Requirements
To be admitted into the Master's degree program in International Intercultural Development Education
(IIDE), a student must: (a) hold a Bachelor’s degree from an accredited institution or its equivalent for international students; (b) have a 3.0 GPA or higher during the last 60 semester hours of undergraduate study (or its equivalent for foreign students); or (c) have a combined score (verbal and quantitative) of 1000 or higher on the GRE (students must submit the GRE scores regardless of their GPA or degree); and/or (d) have a graduate degree from an accredited institution of higher learning; (e) in the case of foreign students whose first language is other than English, a minimum score of 550 on the TOEFL examination is also required; (f) submit two letters of recommendation, preferably from persons in the academic community who are familiar with the applicant’s record and who are able to evaluate the applicants background, professional interest, and career goals; (g) submit a short essay of approximately 250 words concerning the applicants background, professional interests and goals in the area of International Development Education.

Degree Requirements
The Master’s program requires the completion of a minimum of 36 semester hours of course work at the graduate level with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 36 semester hours are to be completed in accordance with the program curriculum.

Language Requirement
The student must demonstrate competency in the use of a modern language, other than English, prior to graduation. International students may demonstrate competency in their native language. Language courses will not count for credit toward program completion.

Required Program: (36 minimum)
The IIDE program blends together theoretical foundations and methodological perspectives. Graduate students are exposed to the role of the social, political, economic, scientific and cultural sectors in educational development. Research and analytical skills are provided to insure student’s ability to define, gather, analyze and evaluate data for project management and decision-making. Planning and applied courses are designed to provide the professional competencies for project development and evaluation, training programs and understanding current and future-oriented policy issues and problems in education.

**Foundations of Education (6)**
- EDF 6608 Social, Philosophical and Historical Foundations of Education 3
- EDF 6211 Psychological Foundations of Education 3

**Social Context of Education and Development: (6)**
- EDF 5812 National Education Systems: A Comparative Analysis 3
- EDF 5852 Educational Development Issues in Context: A Multidisciplinary Perspective 3

**Educational Research and Evaluation Methods: (3)**
- EDF 5481 Analysis and Application of Educational Research 3

**Educational Policy, Planning, Implementation/Management and Evaluation Skills: (9)**
- EDF 6636 Intercultural Studies: A Qualitative and Quantitative Analysis 3
- EDF 6654 Macro- and Micro-Planning in Education 3
- EDF 6850 International Development Education: Contemporary Planning Models and Techniques 3

**Electives: (6)**
The student will select, with advisor’s permission, a minimum of six semester hours from the following courses:
- EDF 5287 Instructional Technology: Systems Approach 3
- EDF 6651 IIDE: Educational Technology, Planning and Assessment 3
- EDG 5707 Cross-Cultural Studies in Education 3
- EDF 6906 Directed Study in IIDE 3
- EDF 5820 Latin American Ed.: Histori and Contemporary Overview 3
- EDF 5821 African Educational Systems: A Comparative Approach 3
- EDF 5850 Intercultural Ed.: National and International Perspectives 3

**Thesis Option (3-9 credit hours)**
The final curricular requirement is a thesis which facilitates the integration of theoretical and practical knowledge acquired throughout the program. The thesis topic is selected and developed in consultation with a faculty advisor and an ad-hoc thesis committee. The thesis demonstrates the student’s ability to apply analytical, conceptual and technical skills to a specific educational development problem of domestic, regional or international significance.

**Non-Thesis Option (by petition only)**
A student shall complete 36 credit hours of course work, approved by her or his supervisory committee. The candidate is required to write a comprehensive/interdisciplinary paper to test the student’s general ability in integrating the disciplinary sources of International Development Education. The topic for the paper is given near the end of the candidate’s final semester by a committee composed of three faculty members appointed by the IIDE Graduate Program/Department. The student has one week to accomplish the task. If the committee considers the paper insufficient, the student may rewrite the paper only once until one semester has elapsed or until additional work prescribed by the committee is completed.

**Dual Specialties**
Students have the opportunity to gain basic expertise in other fields such as: 1) economics, sociology, anthropology, international relations, business administration, etc. 2) adult education, administration and supervision, community college and higher education, curriculum and instruction; 3) comparative education; 4) multicultural communication and systems consultation; 5) the social context of education and development; or 6) any other field of interest approved by the faculty advisor. The student shall complete 24 hours in IIDE and he/she will select, with advisor’s permission, a minimum of 12 semester hours from courses available in one of the following areas:

A content area of educational specialization
Comparative/Intercultural Education
System’s Consultation and Human Resources
Social, Cultural, Technological, Scientific, Economic and/or Political Context of Development
Courses in any other area of special interest to the student.

Master of Science in Teaching English to Speakers of Other Languages (TESOL)
The Master of Science in TESOL is designed to provide specialized training and content knowledge for teachers of all levels of ESOL, K through 12, adult education and community college education. Students who are state certified teachers may include the five courses required for the Add-on ESOL Endorsement as part of the Master’s program.

Admission Requirements
To be admitted into the Master’s degree program, a student must: a) hold a bachelor’s degree from an accredited university or college; b) have a ‘B’ (3.0) average or higher in all junior and senior year course work for the bachelor’s degree; or have a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or hold a master’s degree from an accredited university or college; in any case the student must present a GRE score. In the case of foreign students whose first language is other than English, a score of 550 on the TOEFL examination and a score of 5 on the Test of Written English (TWE) are also required. Admission to the program is contingent upon departmental approval.

Degree Requirements
The Master of Science degree consists of 36 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. A maximum of six semester hours of graduate level courses taken as an undergraduate may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program.

This program does not meet requirements for initial teacher certification by the Florida Department of Education.

Prerequisite
Introduction to Linguistics is the prerequisite for the Linguistics courses in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018.

Required Program: (36)

Professional Education: (9)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6608 Social/Philosophical/ Historical Foundations of Education 3
EDP 6211 Psychological Foundations of Education 3

Program Courses: (18)
TSL 5142 Curriculum Development in ESOL 3
TSL 5371 Special Methods of TESOL 3
TSL 5938 Principles of ESOL Testing 3
TSL 6908 Field Component (structured field experience) 3
LIN 5211 Applied Linguistics 3
LIN 5501 English Syntax 3

Electives: (9)

Students will choose nine semester hours according to their needs, with the approval of their advisor. To meet state ESOL requirements, certified teachers (K-12) need to include in their electives the following courses:
TSL 5245 Developing ESOL Language and Literacy 3
EDG 5707 Cross Cultural Studies 3

Graduation Requirements
To receive the Master of Science degree in TESOL, the student must complete the required 36 semester hours of course work with a minimum ‘B’ or 3.0 grade point average and no more than two ‘C’ grades in required courses.

Peace Corps Master’s International Program (MIP) in Teaching English to Speakers of Other Languages (TESOL)
The Peace Corps Master’s International Program in Teaching English to Speakers of Other Languages is designed to provide specialized training and content knowledge to teachers in foreign secondary- and university-level English programs, English teacher training programs, and volunteer and development activities in general.

Specialty Track #1: Peace Corps Master’s International Program in TESOL (36)

Prerequisites
Candidates for the MIP in TESOL must be US citizens and have applied to and been nominated by Peace Corps or be interviewed at FIU by the Peace Corps campus representative.

Introduction to Linguistics (3 credits) is the prerequisite for the linguistics courses in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018 or other similar courses.

Required Program: (36)

Professional Education: (9)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6211 Psychological Foundations of Education 3
EDF 6608 Social/Philosophical/ Historical Foundations of Education 3

Program Courses: (24)
TSL 5371 Special Methods of TESOL 3
TSL 5938 Principles of ESOL Testing 3
TSL 5142 Curriculum Development in ESOL 3
TSL 6350 Applied English Grammar 3
TSL 6908 Field Component 1 (structured field experience) 3
EDG 5707 Cross-Cultural Studies 3
LIN 6937 Applied Phonetics 3
LIN 5717 Language Acquisition 3

1 These two courses will be taught while in Peace Corps service and completed on FIU’s campus after students return from their assignments abroad.

Electives: (3)

Students will choose three semester hours according to their needs, with the approval of their advisor.

Graduation Requirements:
To receive the Peace Corps Master’s International in Teaching English to Speakers of Other Languages, the student must complete the required 36 semester hours of course work with a minimum of “B” or 3.0 grade point average with no more than two “C” grades in required courses and serve 27 months of assignments as a Peace Corps volunteer.
Master of Science in Urban Education

The Master of Science in Urban Education is a program designed to provide specialized knowledge and practice in areas related to urban/multicultural contexts. It aims at enhancing the effectiveness of teachers serving in diverse urban settings. The program represents a collaboration among the Miami-Dade County Public schools, the United Teachers of Dade (UTD) and the College of Education. It places special emphasis on developing the skills of teachers as researchers by engaging in action research projects at individual school sites. The Master's program requires the completion of 36 semester hours of core work at the graduate level with a minimum 3.0 GPA. A maximum of six graduate hours may be transferred from another institution, upon approval from an advisor.

Admission Requirements

To be admitted into the Master's degree in Urban Education, a student must: (a) hold a Bachelor's degree from an accredited institution or its equivalent; (b) have a 3.0 GPA or higher during the last 60 semester hours of undergraduate study; or (c) have a graduate degree from an accredited institution of higher learning. Students must select a specific track, as delineated below:

Program Core (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6608</td>
<td>Social and Philosophical, and Historical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6636</td>
<td>Intercultural Studies: A Qualitative and Quantitative Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialty Track #1: Urban Education (15)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDB 5267</td>
<td>Education of the Child in Urban Society</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5851</td>
<td>Socio/Cultural Conflict in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6689</td>
<td>Urban Education: Defining the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Electives in Urban Education (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5707</td>
<td>Cultural/Cross-cultural Studies in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective as approved by the academic advisor

Research or Development Project Core (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6925</td>
<td>Special Topics in Urban Education: Qualitative Research in Urban Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5941</td>
<td>Practicum: Urban Elementary School or</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5942</td>
<td>Practicum: Urban Secondary School</td>
<td>3</td>
</tr>
</tbody>
</table>

Three hours of electives may be taken in lieu of a course above with approval of academic advisor.

Specialty Track #2: Multicultural Bilingual Education (15)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5881</td>
<td>Foundations in Bilingual Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5757</td>
<td>Curriculum in Bilingual Education</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4151</td>
<td>Bilingual SL Curriculum and Organization</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4871</td>
<td>Teaching Spanish Speakers of Spanish</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5942</td>
<td>Multicultural Seminar and Practicum in Urban Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Six hours of electives may be taken in lieu of courses above with approval of academic advisor.

Interdisciplinary Electives: (select one) (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6689</td>
<td>Multicultural Education: Defining the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective as approved by the academic advisor

Specialty Track #3: Instruction in Urban Settings (16)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5414</td>
<td>Instructional Strategies for Classroom Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5414L</td>
<td>Instructional Strategies Lab</td>
<td>1</td>
</tr>
<tr>
<td>EDF 5325</td>
<td>Analysis of Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6215</td>
<td>Application of Learning Theory to Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5287</td>
<td>Instructional Technology: Systems Approach</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided electives in Instruction (3)

Interdisciplinary Electives: (select one) (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5216</td>
<td>Effective Learning in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5707</td>
<td>Cultural/Cross-Cultural Studies in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Any elective as approved by the academic advisor.

Specialty Track #4: Multicultural TESOL (15)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development TESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5938</td>
<td>Principles of ESOL Testing</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5245</td>
<td>Developing ESL Language and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5942</td>
<td>Multicultural Seminar and Practicum in Urban Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Three hours of electives may be taken in lieu of a course above with approval of academic advisor.

Specialty Track #5: Learning Technologies (18)

This track is intended for educators who wish to learn how to use various technologies such as computers, scanners, digital cameras, CD-ROMs, multimedia, videotapes, the Internet, and the World Wide Web (WWW) to facilitate learning, teaching, administration and professional development.

In addition to the 18 hours of the Urban Education Program Core Courses, students will complete the following six courses for a total of 36 credit hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6405</td>
<td>Computers in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EME 6406</td>
<td>Microcomputers as Teaching Tools</td>
<td>3</td>
</tr>
<tr>
<td>EME 6412</td>
<td>Educational Courseware Evaluation and Development</td>
<td>3</td>
</tr>
<tr>
<td>EME 5602</td>
<td>Multimedia in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EME 5945</td>
<td>Special Topics in Computer Education</td>
<td>1-3</td>
</tr>
<tr>
<td>EME 6905</td>
<td>Directed Study: Computer Education</td>
<td>3</td>
</tr>
</tbody>
</table>

(Note: Six hours of electives may be completed in lieu of the courses EME 5945 and EME 6905 with prior approval from the academic advisor).

Interdisciplinary Electives: (select one) (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5707</td>
<td>Cultural/Crosscultural Studies in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6631</td>
<td>Multicultural Education: Defining the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

Any elective as approved by the academic advisor.
Doctor of Education Degree Specializations in International and Intercultural Development Education

The Department of Educational Foundations and Professional Studies in cooperation with the Department of Educational Leadership and Policy Studies offers four doctoral specialty tracks (consult program faculty):

2. Curriculum and Instruction: International and Intercultural Development Education Specialization. (code: 0200)

Admission Requirements

Applicants to the program must submit the following records and documents to the Office of Admissions:

- A completed Application for Graduate Admission with a non-refundable processing/application fee of $20.00.
- Official transcripts of all higher education institutions attended.
- An official copy of the Graduate Record Examination scores.
- Foreign students whose native language in not English must submit an official copy of TOEFL exam score.

Applicants must also submit the following documents directly to the Coordinator of Doctoral Programs in the College of Education:

- Three letters of recommendation, preferably from persons in the academic community who are familiar with the student's record and who are able to evaluate the applicant's preparation for doctoral study.
- A current resume/curriculum vitae.
- A statement that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program.

Applicants should also meet the following criteria:

- Hold a Master's degree or, for foreign students, its equivalent from an accredited institution.
- Have a "B" average, a 3.0 GPA of a possible 4.0, or better during the last two years of upper level work in undergraduate study (or its equivalent for foreign students); and/or a GPA of 3.25 in all graduate work attempted.
- Have a combined verbal and quantitative score of 1000 or higher on the Graduate Record Examination.
- Have a TOEFL score of 550, for non-native English speakers.
- Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

Required Courses

International and Intercultural Development Education Core

Those holding a Master's Degree in International and Intercultural Development Education or Comparative Education: (18 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 7571</td>
<td>Consulting in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5831</td>
<td>Social/Cultural Conflict In Educational Change</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6651</td>
<td>IDE: Educational Technology, Planning, Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6658</td>
<td>Selected Topics in IDE: Current Policy Issues</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7656</td>
<td>IDE: Innovative Approaches in Educational Planning</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7940</td>
<td>Dissertation Seminar in IIDE</td>
<td>3</td>
</tr>
</tbody>
</table>

Those with alternate Master's Degree: (21 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5812</td>
<td>National Ed.Systems: A Comparative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6636</td>
<td>Intercultural Studies: Quantitative and Qualitative</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6654</td>
<td>Macro and Micro Planning In Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6850</td>
<td>IDE: Contemporary Planning Models and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7656</td>
<td>IDE: Innovative Approaches in Educational Planning</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7940</td>
<td>Dissertation Seminar in IDE</td>
<td>3</td>
</tr>
</tbody>
</table>

Research and Statistics Core (9 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
</tbody>
</table>

EDF 6486    Research Methods in Education (prerequisite: EDF 5481) 3

The student takes one of the following:

EDF 6403C Quantitative Foundations of Educational Research 3

EDF 6475    Qualitative Foundations of Educational Research 3

Cognate Area and Guided Electives

A coherent set of courses related to the doctoral tracks/IIDE (credit hours: between 30-36 cognate and guided electives)

If a student has completed a Master's degree in the cognate field at another institution, he or she must take at least two courses in the same cognate field at FIU to complete the requirement. The coherency of the cognate must be evident in the relevance of applicability to the student's major area of study.

Required Courses in the Specific Doctoral Content Area Core (15-18 credit hours)

Adult Education and Human Resource Development (15 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 5081</td>
<td>Introduction to AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5383</td>
<td>Instructional Analysis in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5385</td>
<td>Adult Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>ADE 6180</td>
<td>Organizational and Community Processes In AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>ADE 7772</td>
<td>Review of Research in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in the Soc. Found. of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDP 7008</td>
<td>Educational Psychology: Advanced Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Curriculum and Instruction Doctoral Core (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 7222</td>
<td>Curriculum: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7362</td>
<td>Instruction: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7665</td>
<td>Seminar in Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7934</td>
<td>Seminar in the Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in the Soc. Found. Of Education</td>
<td>3</td>
</tr>
</tbody>
</table>
**Graduate Catalog**

### Higher Education (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDP 7008</td>
<td>Educational Psychology: Advanced Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Higher Education with Concentration in Administration (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 7550</td>
<td>Administration in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7222</td>
<td>Curriculum: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7052</td>
<td>Student and Support Services</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7065</td>
<td>Higher Ed: Philosophical/Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7204</td>
<td>Higher Education: Community College</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in the Soc. Found. of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDP 7008</td>
<td>Educational Psychology: Advanced Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

### Educational Administration and Supervision Doctoral Core (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 7069</td>
<td>Educational Policy</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7013</td>
<td>Theories of Educational Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7233</td>
<td>School Law II 3</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7288</td>
<td>Politics of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in the Soc. Found. of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDP 7008</td>
<td>Educational Psychology: Advanced Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

### Admission To Candidacy

To be admitted to candidacy, the applicant must:

1. Meet Academic Residency Requirements of 18 credit hours in one Calendar Year.
2. Pass a comprehensive examination covering the major field, cognate, and Doctoral required core. The examination will be taken at the completion of the student's course work and with the consent of the student's Doctoral program advisor.
3. Complete the research and statistics requirements satisfactorily.
4. Complete, or substantially complete, the Doctoral Core and the IIDE Core.

### Dissertation (24 credit hours)

The dissertation is to be an original contribution to knowledge in the area of International/Intercultural Development Education and content area core as required. The student is expected to complete the dissertation within five (5) years from the date of advancement to candidacy. Continuous enrollment of six (6) credit hours is required once dissertation study has begun.

#### Language Requirement

Prior to graduation, students must demonstrate competency, primarily in reading comprehension, in the use of a modern foreign language, other than English. Foreign students may demonstrate competency in their native language. Language courses will not count for credit toward program completion.

#### Doctor of Education Degree Program with track in Teaching English to Speakers of Other Languages

The Department of Educational Foundations and Professional Studies in cooperation with the Department of Educational Leadership and Policy Studies offers a doctoral specialty track in Teaching English to Speakers of Other Languages (TESOL).

(consult program faculty).

#### Add-on Endorsement in ESOL

Individuals who currently hold or are working toward teacher certification in Elementary, English, Foreign Language or Special Education, may receive the Add-on Endorsement in ESOL by completing the following set of courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5707</td>
<td>Cultural and Cross-Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development in ESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5245</td>
<td>Developing ESOL Language and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5938</td>
<td>Principles of ESOL Testing</td>
<td>3</td>
</tr>
</tbody>
</table>
Health, Physical Education and Recreation

Robert M. Wolf, Associate Professor, and Chairperson, Parks and Recreation Management and Sport Management
Laura Blitzer, Associate Professor, Physical Education
Judith A. Blucker, Professor, Physical Education, and Vice Provost, Budget
Charmaine DeFrancesco, Associate Professor, Physical Education and Sport Management
Daniel L. Dustin., Professor, Parks and Recreation Management
Daniel Hibbler, Assistant Professor, Parks and Recreation Management
Richard Lopez, Associate Professor, Exercise Physiology
Alexis McKenzie, Assistant Professor, Therapeutic Recreation
David Sandler, Instructor, Sports Medicine
Debra R. Trigoboff, Instructor, Sports Medicine
Bill Yongue, Assistant Professor, Elementary Physical Education

The Department of Health, Physical Education, and Recreation offers programs leading to the Master of Science degree in Health Education, with a track in Exercise Physiology; Parks and Recreation Management, with tracks in Leisure Service Management and Recreational Therapy; and Physical Education with tracks in Physical Education Teacher Certification and Sports Management.

The program requirements and descriptions listed below are subject to change without notice. Program faculty should be consulted for academic advisement.

All stated admission requirements are subject to change and should be considered minima. A student who meets these minima requirements is not automatically assured admission. It is the responsibility of the student to ensure that he/she has met the requirements.

Master of Science in Health Education

Exercise Physiology Specialization

The graduate specialization in exercise physiology is designed to prepare individuals to work in the fields of adult fitness, cardiac rehabilitation, sports conditioning and sports medicine in a supervisory capacity. The program focuses on the physiological effects of exercise and training with application to the improvement of health and functional capacity of healthy individuals, as well as hospitalized and non-hospitalized individuals. The program emphasizes the role of exercise in prevention, diagnosis, and rehabilitation of heart disease.

The program enables students to develop the competencies required by the American College of Sports Medicine for certification as an Exercise Specialist, a Health Fitness Director, and a Program Director. The program also prepares students for the National Strength and Conditioning Association’s certified Strength and Conditioning Specialist certification. Provisions will be made to enable those students entering the program without an exercise test technologist certification and/or a fitness certification to develop those prerequisite competencies.

Admission Requirements

An applicant for admission to graduate study must meet the existing criteria set forth by the Florida Board of Regents. Presently, these are a 3.0 GPA in the third and fourth year of the undergraduate program, or a combined score of 1000 on the GRE (verbal and quantitative sections), or completion of a master’s degree program at an accredited university. All applicants must submit a GRE test score.

Prerequisite Classes

One class in each of the following areas: exercise physiology, kinesiology, anatomy, physiology, and nutrition.

Degree Hours: (30)

Required Core Courses (18)

The program offers four strands - a cardiac rehabilitation strand, an adult fitness strand, a sports conditioning strand and a sports medicine strand. A strand is a three course sequence which prepares a student to work in a supervisory capacity within a specialty area in exercise and sport sciences. Each student is required to complete a minimum of two strands in partial fulfillment of his/her requirements for a masters degree in exercise and sport sciences.

Internship Requirement (0-6)

Most students will be required to enroll in a minimum of three credits of internship. The internship setting must provide the student with an opportunity to apply what he/she has learned in at least one of the two strand areas selected. A student may enroll in six credits of internship, if he/she wants to intern in both of the strand areas he/she selected. In special circumstances, the internship requirement may be waived.

Electives (3-6)

Students will be required to enroll in three (3) to six (6) credits of electives. Those who choose to enroll in three credits of internship must enroll in six credits of electives, while those enrolling in six credits of internship must enroll in three credits of electives.

Research Requirement (3)

One advisor approved course in research. One recommendation is EDF 5481, offered by the College of Education.

Class Sequence

Fall Semester

PET 5387  Exercise Test Technology (or elective for students with ACSM certification)
PET 5115  Health/Fitness Instructor (or elective for students with ACSM certification)
EDF 5481  Analysis and Application of Educational Research (or approved alternative)
PET 4383  Evaluation in Exercise Physiology
PET 4xxx  Personal Training
PET 4389  Advanced Concepts in Strength and Conditioning
PET 5931  Special Topics in Exercise Science
PET 6940  Internship in Exercise Physiology

Spring Semester

PEP 5116  Exercise Specialist
PET 5xxx  Exercise Prescription for Special Populations
PET 4601  Comprehensive Conditioning of Elite Athletes
PET 5625  Sports Medicine
PET 6940  Internship in Exercise Physiology
PET 4xxx  Fitness for Older Adults
College of Education

Graduate Catalog

Summer Semester
PET 6775 Health/Fitness Director
PET 6785 Program Director
PET 6940 Internship in Exercise Physiology
HUN 6248 Sports Nutrition

Master of Science in Parks and Recreation Management

The graduate program in Parks and Recreation Management is designed to provide advanced preparation for administrative and supervisory level positions within a leisure services delivery system and recreational therapy services. The program includes electives which give flexibility regarding an individual’s specific career goals as a future practitioner in parks and recreation management or recreational therapy services.

The Recreational Therapy track is designed to prepare direct service and administrative personnel engaged in recreational therapy service delivery.

Admission Requirements

To enter the program in Parks and Recreation Administration, a student must have a 3.0 GPA in upper division work or score 1000 or higher on the Graduate Record Examination, possess a bachelor’s degree, and have appropriate undergraduate preparation in recreation or recreational therapy.

Degree Program: (30-36)

Required Core: (12)

LEI 5510 Program Administration in Parks, Recreation and Sport 3
LEI 5595 Seminar in Parks, Recreation, and Sports Management 3
LEI 5605 Philosophical and Social bases of Parks and Recreation 3
STA 6166 Statistical Methods in Research I or
EDF 5481 Analysis & Application 3

Select from one of the following two tracks: (15-21)

Leisure Service Management Track
LEI 5907 Directed Study in Parks and Recreation Management 3
Advised Electives 15

A student who did not complete a Parks, Recreation, Leisure or Sports oriented internship/field experience during his or her undergraduate degree curriculum will be required to take:

LEI 6922 Supervised Field Experiences in Parks and Recreation 6-9

Therapeutic Recreation Core (9)

LEI 5716 Program Planning in Therapeutic Recreation 3
LEI 5719 Client Assessment, Evaluation, and Documentation 3
LEI 6725 Administrative Aspects of Therapeutic Recreation 3

Thesis Option:

LEI 6971 Thesis: Therapeutic Recreation 6
Advised Electives 3
Total Hours Thesis Option: 30

Non-Thesis Option:

LEI 5907 Individual Study in Parks and Recreation Management 3
Advised Electives 12
Total Hours Non-Thesis Option: 36

Students not currently certified as Therapeutic Recreation Specialists must also register for the following course as part of their overall program:

Prerequisites: Individuals not currently certified at the professional level (CTRS) by the National Council for Therapeutic Recreation Certification will be required to take the following content courses for completion of the Therapeutic Recreation graduate curriculum:

- Introduction to Therapeutic Recreation
- Disabling Conditions and T.R. Services
- Recreational Therapy Interventions
- Abnormal Psychology
- Anatomy
- Physiology
- Human Growth and Development
- LEI 6922 Supervised Field Experiences in Parks and Recreation 6-9

Master of Science in Physical Education

The Master of Science degree program in Physical Education is designed to provide advanced preparation for teachers of physical education. Applicants must hold or qualify for Florida Teacher Certification in Physical Education and must satisfy requirements for scholastic aptitude as determined by the graduate admission standards: GPA of 3.0 or 1000 on the GRE, or both. Applicants must submit GRE scores.

Degree Hours: (33)

Professional Education: (9)

EDF 5481 Analysis and Application of Educational Research 3

EDF 6608 Sociological, Philosophical, and Historical Foundations of Education 3

EDP 6211 Educational Psychology: Foundations and Application 3

PET 5206 Youth Sports 3
PET 5216 Sports Psychology 3
PET 5238 Motor Learning 3
PET 5256 Sociology of Sport 3
PET 5426 Curriculum in Physical Education 3

or

PET 5436 Physical Education Curriculum 3

PET 5925 Practicum in Physical Education 3

PET 6597 Survey of Research in Physical Education and Sports 3

Electives 3

Sport Management Track

The purpose of this track is to provide an option for persons seeking a master’s degree in an allied (non-teaching) career in physical education. This degree program would primarily be for persons who do not presently hold Florida teaching certification credentials. Consequently, completion of this degree would not provide such teacher certification for the degree recipients. Examples of potential student clientele would include all foreign and American college graduates with bachelor’s degrees in physical education, sports science, business, recreation, and other related areas.

Admission Requirements

Students must hold a bachelor’s degree from an accredited university and have a GPA of at least a 3.0 or 1000 on the GRE. The published university requirements for admission into the master’s degree programs must be met. Students who do not have an undergraduate major in physical education or a related area are responsible for meeting the prerequisites for any course listed in the program’s curriculum. A program advisor must be consulted regarding completion of degree requirements.
Degree Hours: (33)

**STA 6199** Statistical Methods in Research or 3

**EDF 5481** Analysis and Application 3

**PET 5216** Sports Psychology 3

**PET 5256** Sociology of Sport 3

**LEI 6577** Leisure Service Marketing 3

**PET 6944** Supervised Field Experience 3-6

**PET 6597** Survey of Research in Physical Education and Sports 3

**LEI 5503** Law and Liability in Parks and Recreation and Sports 3

**LEI 5510** Program Administration Parks Recreation and Sports 3

**Advisor approved electives:** (3-6)

Please consult with an advisor for appropriate courses. Examples of approved electives are:

**LEI 5440** Program Development in Parks, Recreation & Sport

**PET 5206** Youth Sports

**MAN 6501** Operations Management

**MAN 7275** Organizational Behavior

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**Subject Specializations**

Mohammed K. Farouk, Associate Professor, Social Studies/Global Education, Director, Global Awareness Program and Chairperson

Arnhilda Badia, Associate Professor, Modern Language Education

David Y. Chang, Associate Professor, Art Education

Gail P. Gregg, Associate Professor, English Education

Frank T. Hammons, Associate Professor, Vocational Industrial Education

Zhonghong Jiang, Associate Professor, Mathematics Education and Computer Education

Luis A. Martinez-Perez, Associate Professor, Science Education

C. Edwin McClinton, Professor, Mathematics Education and Computer Education

Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education

Linda Spears-Bunton, Associate Professor, English Education

Robert Vos, Associate Professor, Learning Technologies

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**Doctrinal Programs**

Curriculum and Instruction Specializations in:
- Art Education
- English Education
- Modern Language Education
- Science Education
- Social Studies Education

Vocational and Technical Educational Leadership (a track of the Adult Education and HRD program)

Certificate and add-on Certification Programs

Graduate Professional Certificate—Health Occupations Education

All stated admission requirements are to be considered minima. A student who meets these minima requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

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**Master of Science Degree Programs**

Applicants for admission to most Master’s programs in Education must hold or qualify for Florida teacher certification in the appropriate area. All applicants must also satisfy Board of Regents admission requirements. A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study or 1000 (total of verbal and quantitative) on the Graduate Record Examination (GRE). Applicants admitted with a pending GRE score must submit test score within one semester to be fully admitted or become a candidate for graduation. All applicants, regardless of GPA, must submit GRE score.

**Art Education**

Degree hours: (42)

Education, including Art Education: (21)

**EDF 5481** Analysis and Application of Educational Research 3

**EDF 6608** Social, Philosophical, and Historical Foundations of Education 3

**EDP 6211** Psychological Foundations of Education 3

**ARE 6140** Curriculum and Instruction in Art 3

**ARE 6262** Organization and Coordination of School and Community Art Programs 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARE 6746</td>
<td>Seminar in Art Education: Contemporary Issues and Research 3</td>
</tr>
<tr>
<td>ARE 4848</td>
<td>Concepts in Art Education 3</td>
</tr>
<tr>
<td>ARE 6925-29</td>
<td>Workshop in Art Education 3</td>
</tr>
<tr>
<td>EDE 6205</td>
<td>Curriculum Design for Childhood Education or Secondary School Teaching Field 3</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>Education of Students with Exceptionalities or Supervision in Education 3</td>
</tr>
<tr>
<td>EDF 5955</td>
<td>Field Study Abroad 3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Art History 3</td>
</tr>
<tr>
<td></td>
<td>Studio Art (Three semester hours credit for each studio course) 12</td>
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### English Education

**Degree hours: (36)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research 3</td>
</tr>
<tr>
<td>EDF 6608</td>
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</tr>
<tr>
<td>EDF 6211</td>
<td>Psychological Foundations of Education 3</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>Secondary School Curriculum 3</td>
</tr>
<tr>
<td>LAE 6339</td>
<td>Teaching English in the Secondary School 3</td>
</tr>
<tr>
<td>LAE 6935</td>
<td>Seminar in English Education 3</td>
</tr>
<tr>
<td>LAE 5466</td>
<td>Multicultural Perspectives in Language and Literature 3</td>
</tr>
<tr>
<td>LAE 5465</td>
<td>Adolescent Literature Teaching field: English 15</td>
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### Mathematics Education

**Degree hours: (33)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
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<tr>
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</tr>
<tr>
<td>SCE 6635</td>
<td>Teaching Science in the Secondary School 3</td>
</tr>
<tr>
<td>SCE 6933</td>
<td>Seminar in Science Education 3</td>
</tr>
<tr>
<td>Teaching Field: Science 12</td>
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<tr>
<td>MAE 5655</td>
<td>Computers in Mathematics Education 3</td>
</tr>
<tr>
<td>MAE 6336</td>
<td>Teaching Mathematics in the Secondary School 3</td>
</tr>
<tr>
<td>MAE 6899</td>
<td>Seminar in Mathematics Education 3</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>Secondary School Curriculum 3</td>
</tr>
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</table>

### Modern Language Education

**Prerequisites**

One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.

**Degree hours: (33)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
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<tr>
<td>EDF 6211</td>
<td>Psychological Foundations of Education 3</td>
</tr>
<tr>
<td>FLE 6336</td>
<td>Teaching Second Language in the Secondary School 3</td>
</tr>
<tr>
<td>FLE 6938</td>
<td>Seminar in Second Language Testing 3</td>
</tr>
<tr>
<td>Teaching Field: Modern Language 15</td>
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</table>

### Music Education

(see College of Arts and Sciences, School of Music)

### Science Education

**Degree hours: (36)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDF 5481</td>
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<tr>
<td>ESE 6215</td>
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<td>SCE 6635</td>
<td>Teaching Science in the Secondary School 3</td>
</tr>
<tr>
<td>SCE 6933</td>
<td>Seminar in Science Education 3</td>
</tr>
<tr>
<td>Teaching Field: Science 12</td>
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### Social Studies Education

**Degree hours: (36)**

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<th>Course Title</th>
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<td>Social, Philosophical, and Historical Foundations of Education 3</td>
</tr>
<tr>
<td>EDF 6211</td>
<td>Psychological Foundations of Education 3</td>
</tr>
<tr>
<td>SSE 6633</td>
<td>Teaching Social Studies in the Secondary School 3</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>Secondary School Curriculum 3</td>
</tr>
<tr>
<td>SSE 6939</td>
<td>Seminar in Social Studies Education 3</td>
</tr>
</tbody>
</table>

### Master of Science: Alternate Track

The Alternate Track modifies the existing master's degree programs to accommodate candidates with a baccalaureate degree appropriate to the certification area but without certification and are seeking entry into the teaching profession. This alternate track is no less rigorous than the existing master's degree program, but includes courses which provide the necessary background in professional education together with the master's level academic course work.

Entry requirements include a bachelor's degree or a strong minor (30 hours with a 3.0 or higher in the major subject area) in a certifiable teaching area such as the following: Art Education, English Education, Mathematics Education, Modern Language Education, Music Education, Science Education, Social Studies Education and a minimum 3.0 cumulative GPA for the two most recent years of study or a combined GRE score of 1000. In either case, the GRE score must be submitted. In addition to the minimum GPA or the combined GRE score, or both, the applicant must receive an affirmative recommendation from the designated Program Leader, Dean of the College, or his designee following a personal interview.
This degree program requires a minimum of four semester sequence of full-time study which includes two Summer Terms, a Fall and a Spring Term and will consist of 45-48 semester hours, depending on each student's previous academic preparation.

Alternate Track Requirements
All students admitted to this track will complete the following courses as well as the graduate program courses in each of the chosen fields.

EDF 5481 Analysis and Application of Educational Research 3
EDF 5517 Education in American History 3
EDG 5414 Instructional Strategies in Teaching 3
EDG 5414L Instructional Strategies in Teaching: Laboratory 1 3
EDP 5053 Educational Psychology: Principles and Applications 3
Special Teaching Lab: Area 3-6
Student Teaching (Practicum) 6

Applications to student teaching are in the office of the Director of Student Teaching by July 1 for Spring semester placement, and by March 1 for Fall semester placement. Check with the program leader early in program enrollment to determine Fall placement availability. Specific program requirements vary depending on applicant's bachelor's degree program, see program faculty for advice. Contact the department (305) 348-2003 for complete program descriptions.

Administration and Supervision of Vocational Education
To be certified in Administration and Supervision in Vocational Education in Florida, a person must have at least three years of successful teaching experience in one of the vocational education areas. While one year of successful teaching will meet the experience requirement for admission to the master's degree program initially, the three-year teaching experience requirement must have been completed either before or at the same time as degree requirements are completed. Each graduate student, in consultation with the advisor, plans a program of study to include a core of professional competence, an area of emphasis, and electives.

Degree hours: (33-36)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6608 Social, Philosophical, and Historical Foundations of Education 3
EDP 6211 Psychological Foundations of Education 3
EVT 5168 Curriculum Development in Vocational Education 3
EVT 5769 Evaluation in Vocational Education 3
EVT 6930 Seminar in Vocational Education 3

Area of Professional Emphasis: (9)
EDF 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education 3
EVT 5317 Occupational Analysis in Health Occupations and Nursing Education 3
EVT 6318 Current Issues in Health Occupations and Nursing Education 3

Advisor approved technical electives: (6)
The candidate is encouraged to select courses that will increase subject area technical competencies, career goals, and teaching certification requirements such as: courses in Nursing, Health Sciences, Health Services, or Public Health.

RED 6336 Reading in the Content Area 3
EME 6405 Computers in the Classroom 3

Home Economics Education (Family and Consumer Sciences Education)
Non-School Based Track
This track focuses on educational leadership of Family and Consumer Scientists presently employed in non-school educational environments and those preparing for such positions.

This program does not lead to State of Florida teacher certification. Admission to this track does not require teacher certification.

Degree hours: (30)
HEE 5335 Trends and Issues in Home Economics Education 3
HEE 6156 Teaching Home Economics in Diverse Environments 3
ADE 5180 Organizational and Community Processes in AE/HRD 3
EDF 5481 Analysis and Application of Educational Research 3
HEE 6915 Research in Home Economics Education 3
HEE 6937 Seminar in Home Economics Education 3

Area of Professional Emphasis: (9)
With program advisor's approval, students may select courses in Home Economics or related subject matter based on professional competencies and needs.

Advisor approved electives (3)
The candidate in consultation with the advisor will make selections on the
basis of individual needs and career goals.

**Technology Education**

**Degree hours: (33)**

- EDF 5481 Analysis and Application of Educational Research 3
- EDF 6608 Social, Philosophical, and Historical Foundations 3
- EDP 6211 Psychological Foundations of Education 3
- EVT 5650 Trends and Issues in Vocational Education 3
- EVT 5168 Curriculum Development in Vocational Education 3
- Area of Professional Emphasis (9)
  - EIA 5811 Equipment and Facility Planning 3
  - EIA 6683 Instructional Projects Development 3
  - EIA 6931 Analysis of Technology Education 3
  - Advisor approved elective 3
  - EIA 5925 Special Topics or RED 6336 Reading in the Content Area 3

Students are encouraged to select courses that will increase subject area technical competence.

*Students who have met the reading requirement as undergraduates or through approved in-service education, may substitute an elective for this course.

**Vocational Home Economics Education (Family and Consumer Sciences Education)**

**Degree hours: (33)**

- EDF 5481 Analysis and Application of Educational Research 3
- EDF 6608 Social, Philosophical, and Historical Foundations 3
- EDP 6211 Psychological Foundations of Education 3
- HEE 5335 Trends and Issues in Home Economics Education 3
- EVT 5168 Curriculum Development in Vocational Education 3
- HEE 6156 Teaching Home Economics in Diverse Environments 3
- HEE 6915 Research in Home Economics Education 3
- HEE 6937 Seminar in Home Economics Education 3

**Area of Professional Emphasis: (9)**

With program advisor’s approval, students may select courses in Home Economics or Family and Consumer Sciences subject matter based on professional competencies needed. The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.

**Vocational Industrial Education**

**Degree hours: (33-36)**

- EDF 5481 Analysis and Application of Educational Research 3
- EDF 6608 Social, Philosophical, and Historical Foundations 3
- EDP 6211 Psychological Foundations of Education 3
- EVT 5650 Trends and Issues in Vocational Education 3
- EVT 5168 Curriculum Development in Vocational Education 3
- EVT 5769 Evaluation in Vocational Education 3
- EVT 6930 Seminar in Vocational Education 3
- Area of Professional Emphasis: (6)

A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences, seminars, methods courses, workshops, or independent study.

**Advisor approved technical electives: (3-6)**

The candidate will be encouraged to select courses that increase subject area technical competence.

**Doctor of Education Degree Programs**

**Admission Requirements**

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

1. A completed Application for Graduate Admission with appropriate fees.
2. An official copy of the Graduate Record Exam (GRE) scores.
3. Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Coordinator of Doctoral Programs in the College of Education:

1. Three letters of reference attesting to the applicant’s ability to succeed in doctoral study.
2. A current resume/vita.
3. A statement that sets forth the applicant’s career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation is reviewed by program faculty. The criteria applied in reviewing the applicant’s file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work.
2. A 3.25 GPA in all graduate work attempted.
3. A master’s degree from an accredited institution.
4. A minimum combined verbal and quantitative score of 1000 on the GRE.
5. Foreign students must demonstrate a TOEFL score of at least 550.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria, but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.
Research and Statistics: (9)
Required Courses:
STA 6166 Statistical Methods in Research 3
EDG 6486 Research Methods in Education: Experimental Design and Analysis 3

Prerequisite: EDF 5481 and STA 6166.

One of the following:
EDF 6403 Quantitative foundations of Education or
EDF 6475 Qualitative Foundations of Educational Research

Professional Education Core (6)
EDF 7937 Advanced Topics in the Social Foundations of Education 3
EDP 7057 Educational Psychology: Advanced Applications 3

All doctoral students must enroll in EDF 7937 within their first year of admission.

Dissertation: (24)
The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study (including Summer semester) is required.

EDG 7980 Doctoral Dissertation 24

Mathematics Education Specialization
The doctoral program in Mathematics Education in Florida International University's College of Education is a subspecialization in the Curriculum and Instruction Ed.D. Degree. The requirements of the Mathematics Education program are as follows:

Doctoral Core (15)
Five (5) courses in foundation areas to be taken by all students.

EDG 7222 Curriculum: Theory and Research 3
EDG 7362 Instruction: Theory and Research 3
EDG 7665 Seminar in Curriculum 3
EDF 7934 Seminar in Social Foundations of Education 3
EDP 7057 Psychological Foundations of Education 3

Mathematics Education Doctoral Major—Specialization courses in the area of Mathematics (36)
MAE 7165 Curriculum Development in Mathematics Education 3
MAE 7115 Advanced Study of Mathematics Learning Technology 3
MAE 7193 Advanced Study of Mathematics Teaching and Teacher Education 3
MAE 7960 Critique of Educational Literature in Mathematics Education 3
MAE 7963 Analysis and Critique of Research in Mathematics Education 3
MAE 7xxx Educational Research in Mathematics Education 3

Mathematics* 18

Substantial study of mathematics is expected.

Goals:
A. Depth of study through at least one 7000-level sequence.
B. Breadth of study through 6000-level sequences.
Graduate Catalog

*Please consult with the major Professor/Supervisory Committee for the details.

Cognate Area (18)
A coherent set of courses related to Mathematics Education. If a student has completed a Master’s degree in a cognate field at another institution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student’s major area of study.

Research and Statistics (12)
Students are required to enroll in the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6486</td>
<td>Research Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Students take on the following:

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>EDF 6403</td>
<td>Quantitative Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6475</td>
<td>Qualitative Foundations of Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Admission to Candidacy
To be admitted to candidacy, the applicant must:
1. Meet residency requirement (18 credits in one calendar year)
2. Pass a comprehensive examination covering the major field, cognate, doctoral core, and research and statistics. The examination will be taken at the completion of the student’s coursework and with the consent of the student’s doctoral program advisor/Supervisory Committee.
3. Complete the research and statistics requirements satisfactorily.
4. Submit copies of a dissertation proposal approved by the Supervisory Committee to the Dean of the College of Education and to the Dean of Graduate Studies.

Dissertation (24)
An original contribution to knowledge in an area of Mathematics Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed.

EDG 7980  Doctoral Dissertation  3-24

Transfer of Credit
Up to 36 hours of prior graduate college work may be applied to the student’s program. In general, major area courses must be taken as a part of the student’s planned program of study.

Modern Languages/ Bilingual Education Specialization
Students are required to enroll in the following courses:

Required Courses (18)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLE 7761</td>
<td>Research in Modern Languages/ Bilingual Education</td>
<td>3</td>
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<tr>
<td>FLE 7165</td>
<td>Content-Based Language Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>FLE 7938</td>
<td>Doctoral Seminar in Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>FLE 6925</td>
<td>Workshop in Second Language Education</td>
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</tr>
<tr>
<td>EDF 5995</td>
<td>Field Study Abroad or</td>
<td></td>
</tr>
<tr>
<td>FLE 5945</td>
<td>Modern Language/Bilingual School Experiences</td>
<td>6</td>
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</table>

Advisor approved electives (18) select from:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FLE 6336</td>
<td>Methods of Teaching Modern Languages (7-12)</td>
<td>3</td>
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<tr>
<td>LIN 5825</td>
<td>Studies in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6061</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
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<tr>
<td>EDF 5881</td>
<td>Foundations of Bilingual Education</td>
<td>3</td>
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<td>EDA 7069</td>
<td>Educational Policy</td>
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<td>FLE 5895</td>
<td>Bilingual Education Teaching</td>
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<tr>
<td>EDG 5757</td>
<td>Curriculum Methodologies</td>
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<tr>
<td>EDF 6444</td>
<td>Consultation and Assessment with Culturally</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development for Bilingual Programs</td>
<td>3</td>
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<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
</tbody>
</table>

EDA 6195  Communication in Educational Leadership  3
FLE 6938  Seminar in Second Language Testing  3

Cognate Area (18)
Students must select courses at the 5000, and 6000 levels from the Modern Language Department. If a student has completed a degree in the language, he or she may take three courses in the language and three courses in another educational specialization.

Core Courses (18)
Research and Statistics (9)
Dissertation: (24)
An original contribution to the field of Modern Languages/Bilingual education.
EDG 7980  Doctoral Dissertation  24

Science Education Specialization
The doctoral program in Science Education in Florida International University’s College of Education is a subspecialization in the Curriculum and Instruction Ed.D. Degree. The requirements of the Science Education program are as follows:

Doctoral Core (15)
Five (5) courses in foundation areas to be taken by all students.
EDG 7222  Curriculum: Theory and Research  3
EDG 7362  Instruction: Theory and Research  3
EDG 7665  Seminar in Curriculum  3
EDG 7937  Advanced Topics in the Social Foundations of Education  3
EDP 7057  Educational Psychology: Advanced Applications  3

Research and Statistics (12)
Students are required to enroll in the following courses:

EDA 5481  Analysis and Application of Educational Research  3
EDF 6486  Research Methods in Education  3
STA 6166  Statistical Methods in Research  3

Students take on of the following:

EDF 6403  Quantitative Foundations of Education  3
EDF 6475  Qualitative Foundations of Educational Research  3

Cognate Area (18)
A coherent set of courses related to the student’s major area of study.
Science Education Doctoral

Major—Specialization courses in the area of Science (36)

Dissertation (24)

An original contribution to knowledge in an area of Science Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal). Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed.

EDG 7980 Doctoral Dissertation 3-24

Social Studies Education Specialization

The doctoral program in Social Studies Education in Florida International University’s College of Education is a subspecialization in the Curriculum and Instruction Ed.D. Degree. The requirements of the Social Studies Education program are as follows:

Doctoral Core (15)

Five (5) courses in foundation areas to be taken by all students.

EDG 7222 Curriculum: Theory and Research 3
EDG 7362 Instruction: Theory and Research 3
EDG 7665 Seminar in Curriculum 3
EDF 7934 Seminar in the Social Foundations of Education 3
EDP 7057 Educational Psychology: Advanced Applications 3

Social Studies Education Doctoral Major—Specialization courses in the area of Science (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>SSE 5908</td>
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<tr>
<td>SSE 6305</td>
<td>Early Childhood Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6355</td>
<td>Elementary Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6633</td>
<td>Teaching Social Studies in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6939</td>
<td>Seminar in Social Studies Education</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6394</td>
<td>Social Studies in Other Nations</td>
<td>3</td>
</tr>
<tr>
<td>GEO 5415</td>
<td>Topics in Social Geography</td>
<td>3</td>
</tr>
<tr>
<td>CPO 5035</td>
<td>Politics of Development</td>
<td>3</td>
</tr>
<tr>
<td>INR 5607</td>
<td>International Relations and Development</td>
<td>3</td>
</tr>
<tr>
<td>POS 5706</td>
<td>Research Methodology</td>
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</tr>
<tr>
<td>SOC 5941</td>
<td>Marxian Social Theory and Third World</td>
<td>3</td>
</tr>
<tr>
<td>INR 6205</td>
<td>World Politics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 5701</td>
<td>The World Economy</td>
<td>3</td>
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<tr>
<td>HIS 5910</td>
<td>Advanced Research Seminar</td>
<td>3</td>
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<tr>
<td>SSE 7795</td>
<td>Methodologies for Research in Social Studies Education 3</td>
<td></td>
</tr>
<tr>
<td>SSE 7938</td>
<td>Doctoral Seminar in Social Studies Education 3</td>
<td></td>
</tr>
</tbody>
</table>

*This is just a sample of content courses that a student can take. Other courses may be taken in consultation with the Major Professor/Supervisory Committee.

Cognate Area (18)

A coherent set of courses related to Social Studies Education. If a student has completed a Master's degree in a cognate field at another institution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student's major area of study.

Research and Statistics (12)

Students are required to enroll in the following courses:

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</tr>
<tr>
<td>EDF 6486</td>
<td>Research Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research I</td>
<td>3</td>
</tr>
<tr>
<td>Students take on of the following:</td>
<td></td>
<td></td>
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<tr>
<td>EDF 6403</td>
<td>Quantitative Foundations of Education</td>
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<td>EDF 6475</td>
<td>Qualitative Foundations of Educational Research 3</td>
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Admission to Candidacy

To be admitted to candidacy, the applicant must:

1. Meet residency requirement (18 credits in one calendar year)
2. Pass a comprehensive examination covering the major field, cognate, doctoral core, and research and statistics. The examination will be taken at the completion of the student's coursework and with the consent of the student's doctoral program Advisor/Supervisory Committee.
3. Complete the research and statistics requirements satisfactorily.
4. Submit copies of a dissertation proposal approved by the Supervisory Committee to the Dean of the College of Education and to the Dean of Graduate Studies.

Dissertation (24)

An original contribution to knowledge in an area of Social Studies/Global Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal). Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed.

EDG 7980 Doctoral Dissertation 3-24

Transfer of Credit

Up to 36 hours of prior graduate college work may be applied to the student's program. In general, major area courses must be taken as a part of the student's planned program of study.

Vocational and Technical Education Leadership Track

The doctoral track in Vocational and Technical Education Leadership is designed to promote the preparation of highly competent professionals in vocational and technical education. It is a track within the Adult Education and Human Resource Development doctoral program. Although each curriculum has its own specific objectives, the goals shared by these programs are the improvement of educational practice and stimulation of personal and professional growth toward excellence.

The Doctor of Education degree is conferred on the basis of high scholarship and skill in the application of knowledge from theory and research findings to practical vocational and technical education problems.

Applications for admission to the doctoral program are invited from individuals who are highly motivated and intellectually capable of meeting the challenges of a rigorous doctoral degree program.
Additional Admission Requirements

In addition to the admission requirements stated, the applicant must possess:

1. Career goals in professional education consistent with the objectives of a doctoral program.
2. Appropriate prior work experience.

Program of Study

Doctorate programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 99 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs are planned by the participants, their major professor, and doctoral committee.

Program Components

Adult Education and HRD Core
Generic Core
Professional Education Core
EDF 7937 Advanced Topics in the Social Foundations of Education 3
EDP 7057 Educational Psychology: Advanced Applications 3

All doctoral students must enroll in EDF 7937 within the first year of admission.

Vocational and Technical Education Leadership
Research and Statistics
Prospectus and Dissertation

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e., successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including Summer semester).

Common AE & HRD and V & TEL requirement

May include up to 36 semester hours of graduate credit from an approved Masters degree program and transfer credit.

Certificate and Add-on Certification Programs

Graduate Professional Certificate - Health Occupations Education

The overall purpose of the professional certificate program in health occupations education is to enhance the development of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing education, upgrading or redirection needs of health occupations teachers through planned advisement and professional certificate recognition. The programs are for both undergraduate and graduate, degree or non-degree seeking students.

This 24 semester hour plan is designed to meet the needs of the individual who (1) is occupationally competent in a health field and currently teaching or desires to teach a health occupations subject, (2) holds a teaching certificate or equivalent or bachelor's degree or both including out of field and (3) does not wish to, or is unable to, meet the master's degree entrance requirements necessary to pursue the master's degree.

Prescribed Courses: (24-27)

EDT 5078 Technical Education in American Society or
EDT 5650 Trends and Issues in Vocational Education
EDT 5168 Curriculum Development in Vocational Education
EDT 5769 Evaluation in Vocational and Technical Education
EDT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education
EDT 5317 Occupational Analysis in Health Occupations and Nursing Education and/or
ADE 5385 Adult Teaching and Learning

Advisor approved electives (6)

A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education, Health Service Administration or Health Specialty.

May include AE & HRD courses.
Course Descriptions

Definition of Prefixes
ADE - Adult Education; AFA - African-New World Studies; ARE - Art Education; CGS - Computer Applications; CHD - Child Development; EDA - Education; Educational Leadership; EDE - Education: Elementary; EDF - Education: Foundations; EDG - Education: General; EDH - Education - Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC - Education: Early Childhood; EED - Education: Emotional Disorders; EEX - Education: Exceptional Child, Core Competencies; EGI - Education: Exceptional Child, Gifted; EIA - Education: Technology; ELD - Education: Specific Learning Disabilities; EME - Education: Technology and Media; EMR - Education: Mental Retardation; ESE - Education Secondary; EVT - Education: Vocational/Technical; FAD - Family Development; FLE - Foreign Language Education; HEE - Home Economics Education; HHD - Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment; HOE - Health Occupations Education; HSC - Health Sciences; LAB - Language Arts and English Education; LEI - Leisure; MAE - Mathematics Education; MHS - Mental Health Services; MUE - Music Education; PEL - Physical Education; PEM - Physical Education Activities; PEO - Physical Education Activities; PEP - Physical Education Activities; PET - Physical Education Therapy; RED - Reading Education; SCE - Science Education; SDS - Student Development Services; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering; ALT-alternate years; AR-as required.

ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, program, and curricula; analyzing factors affecting human resource development; differentiating adults and youths as learners; planning and appraising human resource development programs. (F)

ADE 5383 Instructional Analysis and Design (3). Analyzing models for instructional analysis and design. Identifying the target population, instructional needs, job and task analysis. Developing learning objectives and related design. Prerequisites: ADE 5081, or ADE 5385, or permission of the instructor. (F)

ADE 5385 Adult Teaching and Learning (3). Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults. (S-UP; F-Brow)

ADE 6180 Organizational and Community Processes in AE/HRD (3). Analyzing human resource and community development programs, the processes and implemental strategies; needs assessment objectives, curricula, recruitment, implementation, and evaluation. Prerequisites: ADE 5081, ADE 5385 or permission of the instructor. (F)

ADE 6186 Comprehensive Program Evaluation in AE/HRD (3). Development of a comprehensive strategy for evaluating complex educational, training, human resource and organizational development programs. Prerequisites: ADE 6180 or permission of the instructor. (S)

ADE 6195 Perspectives on Adults with Disabilities (3). Distinguishing the various perspectives of the employment, inclusion, and education of adults with disabilities. Analyzing forces that inhibit solutions. Developing programs, curricula, materials, recruitment strategies, and evaluation designs. (SS)

ADE 6260 Management of AE/HRD Programs (3). Analyzing regulations affecting adult education/human resource development, selecting and training staff; selecting organizational patterns; executing managerial responsibilities; administering supporting services; relating training to organization development. (S)

ADE 6286 Instructional Development and Implementation (3). A systematic approach to developing instructional materials and strategies appropriate to adult and organizational needs. Implementation strategies including instructional delivery skills for adult learning. Prerequisite: ADE 5383. (S)

ADE 6476 Computer Based Training (3). A basic course in computer based instruction and training. The application of instructional design to CBT, and proficiency in an authoring software. A working knowledge of personal computers is recommended. Prerequisite: ADE 5383 or Permission of the instructor. (F)

ADE 6674 Trends and Issues in AE/HRD (3). Presentation and analysis of state-of-art trends impacting development of human resources in specific organizations including educational agencies/business & industry/public sector and commerce. Prerequisites: ADE 6180 or equivalent. (F)

ADE 6906 Directed Study in Adult Education and Human Resource Development (1-3). Specialized intensive study in areas of interest to the student. Subject to approval of program adviser. (AR)

ADE 6925 Workshop in Adult Education and Human Resource Department (1-6). Intensive development of selected competencies related to instructional, curricular and/or administrative skills of special interest to students in adult education/human resource development. (AR)

ADE 6930 Seminar in Adult Education and Human Resource Development (1-3). Intensive study of instructional, curricular, and/or administrative principles and practices for the solution of problems of special interest to students in adult education and human resource development. (AR)

ADE 6935 Special Topics in Adult Education and Human Resource Development (1-3). 'Mini-courses' which provide for an examination of special facets of adult education and human resource development. (AR)

ADE 6945 Internship in Adult Education or Human Resources Development (3 or 6). Required in both masters programs. Internship in organizations according to student's needs & interests. Supervisory visits & conferences are periodically conducted. Prerequisites: ADE 6180, ADE 6260, ADE 6286 or Permission of the instructor. (F)

ADE 7475 Comparative Systems, Strategies and Materials for Adult Education/HRD (3). A review and critique of the prevailing inventory of packaged systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations. Prerequisites: ADE 6180/ ADE 5383. (S)
ADE 7571 Consulting as an Adult Education/HRD Process (3). Examination of use of internal/external consultation in organizations. Strategies for making entry diagnoses interventions achieving internalization of processes outcomes. Prerequisites: ADE 6180, ADE 5383. (F)

ADE 7772 Review of Research in Adult Education and Human Resource Development (3). Required in the doctoral program. A review and synthesis of research & development activities in Adult Education/HRD. Examination of resources/practices/designs & justifications. Assessment of the status of research in this field. Prerequisites: EDF 5481, ADE 5383, ADE 6180. (F)

ADE 7920 Colloquium in AE/HRD (1-6). Lectures & discussions by distinguished educators/social scientists/organizational executives/graduate faculty and students. Colloquia presents specific topics related to issues/trends/designs and applications. (S)

ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0). Comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite: Permission of Major Professor. (F,S,SS)

ADE 7980 Doctoral Dissertation, Adult Education (6-9). Research for doctoral dissertation for those students approved for candidacy in the Adult Education/Human Resource Development Program. Prerequisite: Advancement to Candidacy in doctoral program. (F,S,SS)

ADE 7985 Dissertation Defense, Adult Education/HRD (0). Defense of Dissertation. Prerequisites: Permission of Major Professor and ADE 7980. (F,S,SS)

AFA 6325 Pedagogy in the African Diaspora: Literacy, Culture, Race and Gender (3). This course explores pedagogy broadly throughout the African Diaspora through critical examinations of race, culture, gender and praxis. The course provides opportunities for research in schooling, teacher preparation and gender/class/race based literacy at home and abroad.

ARE 5457C Introduction to Computer Art (3). Exploration of the color computer, peripherals and selected software as tools for creating expressive art. Individual imaging projects, lesson plans, readings and presentations required. (AR)

ARE 5553 Introduction to Art Therapy (3). An overview of art therapy as a verbal and nonverbal means of communication with special emphasis on psychodynamic fundamentals inherent to the process for the purpose of diagnosis, treatment, and intervention for people with special needs. (AR)

ARE 5555C Advanced Art Therapy (3). Examination of strategies, techniques and current theoretical approaches in art therapy. Delegation and application of an individual field experience is required. Prerequisite: ARE 5553. (AR)

ARE 5905 Directed Study in Art Education (1-6). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor. (F,S,SS)

ARE 5945 Supervised Teaching: Art Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Program and completion of prerequisite course work in education and subject matter area. Supervised teaching in an elementary or secondary school. (S)

ARE 6140 Curriculum and Instruction in Art (3). Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods, and materials for art instruction in the elementary, junior, and senior high school. (S)

ARE 6262 Organization and Coordination of School and Community Art (3). Procedures for the organization, coordination and evaluation of school, community, and in-service art programs, with particular attention to the urban multicultural setting. (F)

ARE 6304 Instruction in Early Childhood Art (3). Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. Lab fee required. (F,S,SS)

ARE 6315 Instruction in Elementary Art (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. (AR) Lab fee required.

ARE 6746 Seminar In Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delegation and application of an individual research problem. Prerequisite: EDF 5481. (S,SS)

ARE 6925-29 Workshop in Art Education (3). Production and application of materials and techniques in art education, in a laboratory or field setting. Lab fee required. (SS)

ARE 7938 Doctoral Seminar in Art Education (3). Advanced doctoral study in current theories and research related to art education. Prerequisites: ARE 6746 and EDF 6486. (F,S,SS)

CHD 5266 Advanced Studies in Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent. (AR)

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application. Prerequisite: Computers in Classroom or equivalent. (AR)

CGS 5413 PILOT for Educators (3). Authoring language PILOT for teachers. Designed to develop language and its application to all levels of education. Prerequisite: EME 6405 or equivalent. (AR)

EDA 6061 Introduction to Educational Leadership (3). Introduction to Educational Administration/Leadership as a field of both study and practice. Emphasis is placed on the social, economic, and political context of contemporary educational administration; the organization, governance, and control of American education; and Educational Administration/Leadership as a profession and career. (F,S)

EDA 6063 Administration of Independent Schools (3). A survey course that examines the administration of private schools. (AR)

EDA 6192 Leadership in Education (3). Review, analysis and application of concepts and theories of leadership with emphasis on organizational and environmental factors, group dynamics, and change processes in education. (AR)
EDA 6195 Communication in Educational Leadership (3). Analysis of principles, processes, and techniques of effective communication, public relations in educational leadership, and school-community relations. (S)

EDA 6225 Labor Relations in Education (3). Examines relations between the school board and its employees. (AR)

EDA 6232 School Law (3). A basic course in school law. Students will understand the law library and its relationship to the school; will demonstrate a knowledge about our legal system; will function in a legal framework; and will identify basic concepts of the law as applied to education. (F,S,SS)

EDA 6242 School Finance (3). Describes and analyzes current and emerging school finance plans; the influence of the courts and federal and state legislation on those plans; the Florida Education Finance Plan; and the budget responsibilities of the school principal. (S)

EDA 6271C Microcomputer Application for Administrators (3). The role of computers in educational administration. Applications to effective leadership utilizing computer technology. (F)

EDA 6503 The Principalship (3). Organization and administration of the school; emphasis on competencies necessary for leadership and management of the school center, both elementary and secondary. (F)

EDA 6905 Directed Study in Educational Leadership (1-3). For advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisites: Admission to master's program and permission of instructor. (F, S, SS)

EDA 6925 Workshop in Educational Administration and Supervision (1-6). Offers an opportunity for experienced school personnel to participate in a problem-solving work-shop. (AR)

EDA 6928 Special Topics: School Improvement (1-6). Offers an opportunity for experienced school personnel to participate in a school improvement workshop. (AR)

EDA 6930 Seminar in Educational Leadership (3). Review of selected concepts and competencies in the field of educational leadership. (AR)

EDA 6941 Practicum in Educational Leadership (3). Application of theory and research to field-based problems in educational administration/leadership. Prerequisites: Permission of the instructor. (AR)

EDA 6943 Supervised Field Experience (1-6). Supervised field experience appropriate to the student's interests and professional goals. Prerequisites: Permission of the instructor. (AR)

EDA 6945 Colloquium in Educational Administration (3). Examination of selected contemporary policy and practice issues in educational administration and supervision. Repeatable with permission of the instructor. (AR)

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formation and implementation. Doctoral students only.

EDA 7103 Theories of Educational Administration (3). Examination of theoretical constructs and models related to the organization and administration of educational institutions. Prerequisite: Admission to doctoral program. Doctoral students only.

EDA 7233 Education Law and Ethics (3). Examines the area of school law in depth. Prerequisite: EDA 6232. (AR)

EDA 7236 Law and Higher Education (3). Analyzes the legal structure of higher education, including religion, academic freedom, employment, due process, student's rights, desegregation, tort liability, and other issues. (AR)

EDA 7288 Politics of Education (3). Analysis of the political dynamics of educational governance and the political dimensions of educational administration. Doctoral students only. (F)

EDA 7550 Administration of Higher Education (3). Analysis of colleges and universities as social organizations with special emphasis on issues of organization, administration, organization, and governance in higher education. (AR)

EDA 7905 Directed Study in Educational Administration and Supervision (1-6). For advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisite: Permission of the instructor. (F, S, SS)

EDA 7930 Seminar in Educational Administration and Supervision (3). Consideration of critical issues and problems in the administration of educational institutions. (AR)

EDA 7937 Special Topics in Higher Education Administration (3). Seminar devoted to the in-depth treatment of selected special topics in theory, research, and practice related to higher education administration. (AR)

EDA 7943 Field Projects (1-6). Participation by advanced graduate students in field projects and studies. Prerequisite: Permission of the instructor. May be repeated with permission of the instructor. (AR)

EDA 7964 Comprehensive Doctoral Examination, Educational Administration and Supervision (0). Comprehensive doctoral examination in Educational Administration and supervision. Prerequisite: permission of Major Professor. (F, S, SS)

EDA 7979 Dissertation Research Seminar (3). Designed to provide advanced doctoral students with a knowledge and understanding of the process of dissertation research and writing and of the dissertation defense. Prerequisite: Advanced doctoral standing. (AR)

EDA 7980 Doctoral Dissertation (6-9). Research for doctoral dissertation. Prerequisite: Advancement to candidacy in doctoral program. (F, S, SS)

EDA 7985 Dissertation Defense, Educational Administration and Supervision (0). Defense of dissertation. Prerequisite: Permission of the Major Professor. (F, S, SS)

EDE 5267 Education of the Child in Urban Society (3). For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisites: EDF 3723, EDG 3321, EDG 3322. (AR)

EDE 5905 Directed Study in Elementary Education (1-3). Available to graduate elementary majors. Provides for individual investigation in the area of elementary education. Permission of the instructor required. (F, S, SS)

EDE 5925 Special Topics in Elementary Education (3). Available to undergraduate and graduate elementary majors. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required. (AR)
EDF 6205 Curriculum Design for Childhood Education (3). Required in masters programs in elementary education. A study of curriculum theory, research, construction and evaluation related to elementary schools. (AR)

EDF 6488 Research in Elementary Education (3). Elective in masters program in elementary education. Required for students in doctoral program. Research in elementary education and the paradigms associated with this research. Prerequisite: EDF 5481. (AR)

EDF 6930 Seminar in Elementary Education (3). Required in masters program in elementary education. Required for students in doctoral program. Advanced study of critical issues and problems in elementary education. Prerequisite: EDF 6488. (AR)

EDF 6971 Thesis in Elementary Education (6). Elective in masters program in elementary education. Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDF 6488, and consent of instructor. Corequisite: EDE 6930. (F,S,SS)

EDF 7935 Doctoral Seminar in Elementary Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to elementary education. Prerequisites: EDE 6488 and EDE 6930. (AR)

EDF 5216 Effective Learning in the Classroom (3). A behavioral approach to effective teaching techniques, including theoretical background, behavioral definitions, writing effective objectives, and evaluation of effective learning in the classroom. A field experience will be included. (AR)

EDF 5432 Measurement and Evaluation in Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481. (F,S,SS)

EDF 5481 Analysis and Application of Educational Research (3). Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis; sample selection; instrument selection; formulation of research design and procedure; and data analysis. (F,S,SS)

EDF 5517 History of Education in the Changing Social and Philosophical Context of the American Republic (3). An historical examination of formal education in the changing social and philosophical context of the American republic. Special focus on school/society relationship. (F,SS)

EDF 5812 National Educational Systems: A Comparative Analysis (3). Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of responses of national educational systems to common educational issues. (S)

EDF 5820 Latin American Education: An Historic and Contemporary Overview (3). Historical and current development of Latin American Education, and analysis of principal forces shaping this development. (AR)

EDF 5821 African Educational Systems: A Comparative Approach (3). Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices. (AR)

EDF 5851 Social/Cultural Conflict in Educational Change (3). This course explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. (AR)

EDF 5852 Educational Development Issues in Context: A Multidisciplinary Perspective (3). A critical analysis of educational reforms of the past and the present, drawing on social science research and policy issues in the Third World. Prerequisite: EDF 6850. (S)

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally. (F)

EDF 5881 Foundations of Bilingual Education (3). Fundamental theories and models of bilingual education, and information about the historical, philosophical, theoretical and legal background for bilingual multicultural programs in the United States. (AR)

EDF 5905 Directed Study in Education (1-3). The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairman of the Division and the approval of the instructor. (F,SS)

EDF 5941 Practicum: Urban Elementary Schools (3). Developing teacher competencies for the urban elementary schools. (AR)

EDF 5942 Multicultural Seminar and Practicum in Urban Education (3). Effective methods of educating immigrant and other minority children. Prerequisite: Current Florida Teaching Certificate. (AR)

EDF 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad. (SS)

EDF 6211 Psychological Foundations of Education (3). An intermediate course designed to apply theories and principles of learning and development to teaching and student learning in career areas related to education. Challenges of diversity and teacher effectiveness are emphasized. Prerequisites: EDP 3004 or equivalent. (F,S,SS)

EDF 6212 Research Problems in Educational Psychology (3). Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis. (AR)

EDF 6301 Cognitive Psychology in Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement or attention and memory. Prerequisite: EDF 6211. (AR)

EDF 6403 Quantitative Foundations of Educational Research (3). Integrative coverage of fundamentals in the general field of educational research with emphasis on utilizing computers for data analysis. Prerequisites: EDF 5481 and EDF 6486, and STA 6166. (AR)
EDF 6444 Consultation and Assessment with Culturally and Linguistically Diverse Populations (3). Issues in consultation and assessment of individuals with culturally and linguistically diverse backgrounds. (AR)

EDF 6475 Qualitative Foundations of Educational Research (3). Introduction to philosophical, historical, sociological, and other methodologies as aspects of qualitative educational research. Prerequisites: EDF 5481 and EDF 6486. (AR)

EDF 6486 Research Methods in Education: Experimental Design and Analysis (3). Competencies required for the design and analysis of complex educational problems, including formulation of pre-experimental, true experimental, quasi-experimental, and factorial designs; and related analysis. Prerequisites: EDF 5481 and STA 6166. (AR)

EDF 6602 Social and Philosophical Foundation of Education: An Urban Perspective (3). Conceptualization and development of education by development of social analysis and ethical decision making. Prerequisites: Admission to Focus/Masters program. (AR)

EDF 6608 Social, Philosophical and Historical Foundations of Education (3). Required of students seeking a regular Masters degree in Education. It will assist students in examining and explaining the differing social context of schooling, the diverse value orientation represented in formal and informal education and the major historical forces shaping schooling in America. (F, SS, S)

EDF 6636 Intercultural Studies: A Qualitative and Quantitative Analysis (3). Interrelationship between race, class, gender, ethnicity, and national origin and their influence in learning. Prerequisites: EDF 5481. (AR)

EDF 6651 International Development Education: Educational Technology, Planning, and Assessment (3). Introduction to the impact of technology in the delivery and management of education. Emphasis is placed on planning, implementation, and assessment in developing societies. (AR)

EDF 6654 Macro- and Micro-Planning in Education (3). This course is designed to study the theoretical and methodological foundations of educational planning in the U.S. and other countries. (F)

EDF 6658 Selected Topics in International Development Education: Current Policy Issues and Problems (3). This course is dedicated to the study of contemporary problems and issues in the fields of educational policy, planning, management, implementation, and research in developing societies. (AR)

EDF 6689 Urban Education: Defining the Field (3). Examines the state of urban education and contemporary urban life in America. Prerequisite: Admission to Masters program. (AR)

EDF 6850 International Development Education: Contemporary Planning Models and Techniques (3). Designed to explore the relationship between education and the modernization/process development process. Special emphasis on historic/contemporary educational planning models and techniques. Prerequisite: EDF 5481. (S)

EDF 6906 Directed Study in International Development Education (3). Specialized intensive study in areas of interest to International Development Education majors. Prerequisite: Approval of program advisor and instructor. (F, S, SS)

EDF 6925 Special Topics in Urban Education (1-5). An opportunity for school personnel to develop special competencies in teaching in an urban environment. Prerequisite: Permission of the instructor. (AR)

EDF 6972 Thesis in International Development Education (3-9). A thesis is required of students in International Development Education which demonstrates the application of their analytical, conceptual, and technical skills to a specific educational development problem. Prerequisite: Final semester standing in the International Development Education Master's degree program. (F, S, SS)

EDF 7656 International Development Education: Innovative Approaches in Educational Planning (3). Introduction to educational planning approaches which stress decentralization. It focuses on new and innovative perspectives which emphasize strategic aspects of educational planning. (AR)

EDF 7934 Seminar in the Social Foundations of Education (3). Provides a social and philosophical frame of reference reflecting the society in which education occurs and the resulting implications for the functioning of schools. Prerequisites: M.S. or equivalent and at least one graduate course in history, philosophy or sociology, or equivalent. (AR)

EDF 7937 Advanced Topics in the Social Foundations of Education (3). In-depth, advanced exploration of a specific area, issue, or practice in relation to the evolving social, philosophical and historical context of American schooling. Prerequisite: Doctoral students only. (F, S, SS)

EDG 5325 Analysis of Teaching (3). Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior. (AR)

EDG 5414 Instructional Strategies for the Classroom Teacher (3). This course is specifically designed for the Modified Master's Program in Education. Focus is on generic teaching strategies suitable for teaching in South Florida. Special Emphasis will be placed on the development of competence and knowledge supportive of a reflective practitioner. Prerequisite: Permission of the instructor. Corequisite: EDG 5414L. Field experience required. (F, SS)

EDG 5414L Instructional Strategies Lab (1). Applies basic knowledge and skills necessary for teaching. Required of all in mod-masters programs. Corequisites: EDG 5414. (F, SS)

EDG 5417 Learning Styles Applications (3). Designed to help educators use learning styles information to change instruction and improve student achievement. Prerequisite: Tentative admission to Master's program. (AR)

EDG 5707 Cultural and Cross-Cultural Studies (3). Overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, intercultural communica-tion. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F, S, SS)

EDG 5941 Practicum: Urban Secondary Schools (3). Developing teacher competencies in urban secondary schools. (AR)

EDG 6250 Curriculum Development (3). Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling. (S, SS)
EDG 6286 Curriculum Evaluation and Improvement in Urban School Systems (3). Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum. (S)

EDG 6608 Multicultural Education: Defining the Field (3). Multicultural education and its impact on teaching and the profession. Prerequisite: Admission to Urban Masters program. (AR)

EDG 6693 Problems in Curriculum and Instruction: Elementary (3). Investigation of current problems and solutions to essential curricular and instructional issues in elementary education. Prerequisites: EDE 6205, EDE 6225 or equivalent. (SS)

EDG 6694 Problems in Curriculum and Instruction: Middle School (3). Investigation of current problems and solutions to essential curricular and instructional issues in middle school education. Prerequisite: ESE 6215 or equivalent. (SS)

EDG 6695 Problems in Curriculum and Instruction: High School (3). Investigation of current problems and solutions to essential curricular and instructional issues in high school education. Prerequisite: ESE 6215 or equivalent. (SS)

EDG 6920 Colloquium in Curriculum and Instruction (1-6). Selected readings, presentations and discussions on topics related to curriculum and instruction. Colloquia considers specific topics related to issues, trends and applications in the broad field of education. Prerequisite: Masters Degree. (SS)

EDG 6925, 6926, 6927, 6928, 6929 Special Topics in General Professional Education (1-3). Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education. (AR)

EDG 6943 Supervised Field Experience (1-5). Students are provided an opportunity to perform supervisory duties appropriate to the students professional goals. Only advanced graduate students are permitted to enroll. (AR)

EDG 7222 Curriculum: Theory and Research (3). Theories of curriculum organization and a survey of curriculum research and historical patterns of curriculum development. Prerequisite: EDG 6250. (F)

EDG 7362 Instruction: Theory and Research (3). Theories of instruction and research in the learning process, creativity, the thought process, human relations and group dynamics and other fields related to the development of instructional theory and practice. Prerequisites: EDG 6250 or Psychology of Learning. (S)

EDG 7391 Seminar in Instructional Leadership (3). Review theories of change and organizational development applicable to education. Discussion of rules and functions of supervisors, curriculum developers and other leaders in the instructional process. Prerequisites: EDS 6115 or EDS 6900. (F)

EDG 7665 Seminar in Curriculum (3). Provides advanced doctoral students the opportunity to participate in a high level seminar focused on identifying the forces which shape curriculum theory and practice. Prerequisite: EDG 7222. (S)

EDG 7938 Doctoral Seminar in Instructional Leadership (3). Advanced doctoral studies in current theories and research related to instructional leadership. Prerequisite: EDG 7391. (F)

EDG 7964 Comprehensive Doctoral Examination (0). Prerequisite: Permission of Major Professor. (F, SS)

EDG 7980 Doctoral Dissertation (3-9). Original contribution to knowledge in major field. Prerequisite: doctoral candidate. (F, SS)

EDG 7985 Dissertation Defense (0). Defense of dissertation. Prerequisite: Permission of Major Professor and EDG 7980. (F, SS)

EDH 6905 Directed Study in Higher Education (1-6). Specialized intensive study in higher education and/or community college in areas of interest to the student. Subject to approval of program advisor. Prerequisite: Permission of the instructor. (F, SS)

EDH 6925 Special Topics in Higher Education/Community College (1-6). Intensive development of selected competencies related to instructional curricular, staff development and/or administrative skills of special interest to students in higher education and community college. Prerequisite: Permission of the instructor. (F, SS)

EDH 6935 Special Topics in Higher Education/Community College (1-6). This course provides for the examination of special aspects of higher education of interest to students in higher education and community college teaching. Prerequisite: Permission of the instructor. (F, SS)

EDH 7052 Student and Support Services (3). Comprehensive introduction and overview of student affairs in higher education including history, evaluation and growth, philosophical underpinnings, educational significance, administrative aspects and understanding of individual student service areas. (F)

EDH 7065 Higher Education: Philosophical/Historical Perspectives (3). This course examines the place of philosophy in higher education, and the history of American higher education. A contemporary philosophical position is then developed. (F)

EDH 7204 Higher Education: Community College (3). This course examines the structure of the community college including: curriculum; administration and legal aspects; the community college concept; technical and career programs and current issues and problems. (S)

EDH 7225 Higher Education: Developmental Programs (3). This course examines the spectrum of developmental programs in higher education. Special attention is given to program structure, academic support systems and processes designed to increase student achievement. (F)

EDH 7307 Higher Education: Instructional Methods (3). This course will develop knowledge of and skill in the use of higher education instructional methods, such as lecture, discussion, demonstration, TV instruction, and computer assisted instruction. (SS)

EDH 7308 Higher Education: Occupational Programs (3). A core course in the doctoral program in higher education: Instruction. It is designed to help students develop an in-depth knowledge of occupational programs in higher education and the students it serves. Prerequisite: Graduate standing. (S)

EDH 7964 Comprehensive Doctoral Examination (0). Prerequisite: Permission of Major Professor. (F, SS)

EDH 7980 Doctoral Dissertation: Higher Education (6-9). Research for doctoral dissertation. Prerequisites: Advancement to candidacy in the doctoral program and completion of all other doctoral requirements. Course may be repeated as needed. (F, SS)
EDH 7985 Dissertation Defense (0). Defense of dissertation. Prerequisite: Permission of Major Professor and EDH 7980. (F,S,SS)

EDP 5053 Educational Psychology: Principles and Applications (3). Theories, empirical bases and principles of development and individual differences, learning environments, and assessment applied to teaching at all educational levels. Challenges of diversity are emphasized. Required of Modified Masters programs. (SS)

EDP 6215 Application of Learning Theory to Instruction (3). Analysis of selected learning theories and application of these theories to an instructional system. (AR)

EDP 6301 Cognitive Psychology in Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement of attention and memory. Prerequisite: EDP 6211 or equivalent. (AR)

EDP 6505 Human Growth and Life-Span Development (3). Advanced survey of principles of human development in bio-psychosocial terms; in-depth study of infancy, childhood, adolescence, emphasizes applications to broad range of educational processes. Prerequisites: EDP 3004 and EDP 3000 (F)

EDP 6506 Human Development: Across the Life Span (3). Advanced survey of life span human development. Demographic, physiological, sociological factors contributing to optimal functioning through adulthood and aging. Applications to counseling and education. (AR)

EDP 7057 Educational Psychology: Advanced Applications (3). Advanced doctoral level seminar. Reviews and applies educational psychology theories and empirical evidence to educational research, program development and policy making at all educational levels. Prerequisite: College of Education doctorate students. (AR)

EDP 7058 Behavioral Intervention Research and Evaluation in Education (3). Design and analysis of observational and behavioral studies in education. Includes single subject research studies, structured observation systems, and behavioral interventions. Prerequisite: EDF 5481. (S)

EDS 6050 Supervision and Staff Development (3). Competencies in supervision and staff development. Focus is on functions, tasks, and job dimensions of educational leaders who serve as supervisors and providers of staff development activities. (AR)

EDS 6115 School Personnel Management (3). Focus is on skills needed for exercising leadership in school personnel selection, evaluation, and development. (S)

EEC 5906 Directed Study in Early Childhood Education (1-3). Available to undergraduate and graduate students studying early childhood education. Provides for individual investigation in the area of early childhood education. Permission of the instructor required. (F,S,SS)

EEC 5926 Special Topics in Early Childhood Education (3). Available to undergraduate and graduate students studying early childhood education. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required. (AR)

EEC 6261 Education Programs for Younger Children (3). Required in masters program in early childhood education. Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research. (AR)

EEC 6455 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool, handicapped, and at risk children. Prerequisite: EEX 6017; EEX 3010 or EEX 6051 recommended. (AR)

EEC 6678 Research in Early Childhood Education (3). Elective in masters program in early childhood education. Required for students in doctoral program. Research in early childhood education and the paradigms associated with this research. Prerequisite: EDF 5481. (AR)

EEC 6705 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisite: EEX 3010 or EEX 6051. (F)
EEX 6051 Education of Students with Exceptionalities (3). Significant concepts in relation to the educational needs of students with exceptionalities. (AR)

EEX 6060 Curriculum for Teaching Students with Mild Disabilities (3). Curriculum models, approaches and significant concepts and skills needed for educational planning and programming for students with mild disabilities. Prerequisites: EEX 5481, EEX 6912. (S)

EEX 6065 Educational Programs for Secondary Level Students with Exceptionalities (3). Considers philosophies and models of secondary programs for students with mild disabilities. Emphasis is given to instructional methods in skills and content areas and identification of transition resources. Prerequisites: MAE 6336, RED 6336. (AR)

EEX 6072 Inclusion of Students with Exceptionalities (3). Awareness of issues underlying the movement to include students with disabilities in general education settings. Techniques and procedures for effective mainstreaming of these students. (SS)

EEX 6106 Acquisition of Speech and Language Skills (3). Development of normal speech and language, and knowledge of speech and language delays and disorders. (S)

EEX 6203 Advanced Psychological/Sociological Aspects of Disability (3). Advanced psychological and social aspects of handicapping conditions in relationship to classroom behavior and community functioning. (AR)

EEX 6208 Medical Aspects of Disability (3). Medical etiology and remediation of disability. Includes genetic, biochemical, nutritional, and physical agents in mental retardation, learning disability, and emotional handicaps. Prerequisite: EEX 3202 or equivalent. (F)

EEX 6211 Assessment of Learning and Behavior (3). Presents a model for assessing the skills and abilities of students with exceptionalities. Emphasis is on administration, scoring and interpretation of a variety of standardized tests, and communication of results in written reports and oral staffings. Prerequisites: EEX 3221 or EEX 6227 or equivalent. Lab fee required. (AR)

EEX 6213 Assessment and Interventions for Young Children with Disabilities (3). Presents an ecological approach to assessment of young children. Formal/Informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisite: EEX 6017, EEX 3010 or EEX 6051. Corequisites: EEX 6455. Lab fee required. (S)

EEX 6227 Educational Assessment of Students with Exceptionalities (3). Presents a model for assessing the academic skills of students with exceptionalities. Emphasis is on use of standardized tests and development of curriculum-based assessments. Lab fee required. (F, SS)

EEX 6228 Integration of Curriculum, Assessment and Instruction (3). This course constitutes the culminating experience in the Masters Program by establishing the link between curriculum, assessment, and instruction. Prerequisite: Completion of required Masters course work. (S)

EEX 6236 Characteristics of Individuals with Severe Disabilities (3). Characteristics of individuals with physically impaired, health impaired, and profound communication disorders and behavior disorders, including autism. Medical etiology, assessment techniques, program planning for student and family. Prerequisite: Graduate level status. (AR)

EEX 6256 Ecological Intervention Strategies for Students with Severe Emotional Disabilities (3). Designed to have the graduate student apply an ecological framework in addition to educational principles to children and youth with behavior disorders. Prerequisite: EED 6226. (S)

EEX 6259 Reading for Students with Exceptionalities (3). Provides teachers with knowledge of specific development, remedial reading and language arts strategies, assessment and implementation models that can be used for students with exceptionalities. (SS)

EEX 6417 Guidance and Counseling of Gifted Students (3). Affective development, parental involvement, counseling theories, underachieving gifted. (SS)

EEX 6455 Programming for Young Children with Disabilities (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool age children with disabilities as well as children at risk. Prerequisites: EEX 6017, EEX 3010 or EEX 6051. Corequisite: EEX 6213. (S)

EEX 6535 Seminar in Special Ed.: Supervision and Leadership (3). Problems in school administration and pattern of curriculum organization as they relate to people with disabilities. Focus on conceptual framework, change factors and future trends in special education. (F)

EEX 6608 Applied Behavior Analysis in Education (3). Application of behavioral principles to children and youth in educational and community settings. Required for special education modified masters’ and out-of-field certification majors. Prerequisite: EEX 6051. (F)

EEX 6765 Instructional Technology for Special Education (3). Provides teachers of students with special needs current knowledge in instructional technology, appropriate to enhance student learning. (F, S, SS)

EEX 6771 Independent Living for Individuals with Disabilities (3). Explores personal living skills, employability and transitional skills for adulthood in relation to persons with mental, sensory and physical disabilities. (SS)

EEX 6846 Seminar in Special Education: Issues and Trends (3). A forum to discuss, analyze, and evaluate current issues and trends in special education. Individual issues and trends will be planned and executed by students. (F)

EEX 6862 Student Teaching (6). Cumulating field experience in a program for students with Exceptionalities, demonstrating competencies learned throughout the program. Prerequisite: successful completion of all program requirements. (F, S)

EEX 6863 Supervised Field Experience in Special Education (3-9). Demonstration in a field site of the full range of competencies in diagnostic teaching learned throughout the program. Placements include a variety of field settings. (F, S, SS)

EEX 6906 Directed Study in Special Education (1-6). Concepts or competencies contracted for by graduate students with a faculty member. (F, S, SS)
EEX 6912 Advanced Theory and Research in Special Education (3). Required by graduate students in the Masters or Doctoral programs. Investigation of advanced work in social and psychological research applied to persons with handicaps, mental retardation, learning disabilities, and emotional disturbances. Prerequisite: Certificate in Special Education and/or competence in Special Education. (S,SS)

EEX 6927 Special Topics in Special Education (1-6). Selected competencies in special education, developed in short-term, intensive workshops. (F, S, SS)

EEX 6971 Thesis in Special Education (3). Elective in Masters Program in special education. Design and implementation of original scholarly investigation in special education. Prerequisites: EEX 6912, EDF 5481, consent of instructor. (AR)

EEX 7930 Professional Seminar in Special Education (1). Required 6 semester seminar for new and continuing doctoral students in leadership and professional development issues facing doctoral professionals. Prerequisite: Doctoral standing. (F, S, SS)

EEX 7933 Advanced Topics in Special Education (3). In-depth study and analysis of topics affecting special education practice. Course can be repeated for credit. Prerequisite: Admission to doctoral program in ESE.

EEX 7937 Dissertation Seminar in Special Education (3, repeatable to 9). Designed to take doctoral students through the steps of completing a dissertation. Requires identification and development of a research problem. Prerequisites: Completion of special education core and research and statistics component. (F, S, SS)

EEX 7977 Candidacy Research and Evaluation in Educational Psychology and Special Education (3). Research activities required for doctoral students in special education prior to candidacy and dissertation. Serves as a bridge between courses and the comprehensive examination. Prerequisite: Doctoral standing. (F, S, SS)

EEX 7980 Doctoral Dissertation (6-9). Original contribution to knowledge in major field. Prerequisite: Doctoral candidate. (F, S, SS)

EGI 5051 Nature and Needs of the Gifted (3). Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted-talented. (F)

EGI 5232 Educational Procedures and Curriculum for Gifted (3). Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms, and special classes. (S)

EGI 6306 Theory and Development in Creativity for Gifted (3). Required for graduate students seeking endorsement in Gifted Education. Knowledge and practice in theory and process of creative thinking and production of creative work. Prerequisite: Graduate level only. (F)

EGI 6405 Special Populations Gifted (3). Required for graduate students seeking endorsement in Gifted Education. Knowledge and theory in cultural, psychological, and educational principles applied to gifted minorities, including the handicapped. Prerequisite: Graduate level only. (S)

EIA 5811 Equipment and Facilities Planning (3). Utilization of research, design, and technical knowledge and skill to plan and update technology education laboratory facilities and equipment. Prerequisite: Graduate standing. (S, SS)

EIA 5905 Directed Study in Technology Education (1-3). Identification, research, and reporting on problems of interest to the student in technology education. Subject to approval of program advisor. (F, S, SS)

EIA 5925L Special Topics in Technology Education (3). Selected topics related to instructional and technical areas. (F, S)

EIA 6683 Instructional Projects Development in Technology Education (3). Knowledge and skill in developing new and innovative instructional projects for use in technology education programs, grades 6-12. (F, S, SS)

EIA 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology education at the national, state, and local levels. (F, S, SS)

ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities (3). Major concepts and issues in the area of specific learning disability, and skills in the application of these concepts to education. (S, SS)


EME 5403 Introduction to Instructional Delivery Systems (3). A study of the rapidly expanding electronic media technology and its impact on instructional delivery. Prerequisite: EME 3402 or EME 6405. (AR)

EME 5602 Multimedia in the Classroom (3). Use videodisc and compact disc formats; hypermedia; high resolution still images and graphics; audio-program material and text to improve the quality of teaching and student learning. Prerequisites: EME 3402, EME 6405, or equivalent. Corequisite: Basic knowledge of McIntosh environment. (AR)

EME 5945 Special Topics in Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications. (AR)

EME 6405 Computers in the Classrooms (3). Learning to use microcomputers in a school setting. Emphasis on evaluating and documenting software; creation of classroom materials leading to development of useful software. (F, S)

EME 6406 Microcomputers as Teaching Tools (3). This course develops ability to use the microcomputer as an object, medium, and manager of instruction in the classroom. Prerequisite: EME 6405 or EME 3402 or permission of the instructor. (F, S)

EME 6407C Instructional Programming for Teachers (3). An introductory course for teachers to use BASIC to write educational programs appropriate to the teacher's area of specialization. Prerequisite: EME 3402 or EME 6405 or permission of the instructor. (AR)

EME 6412 Educational Courseware Evaluation and Development (3). This course develops ability to select, evaluate, design, and utilize appropriate software for the school curriculum. Prerequisites: EME 6405
or EME 3402 and one computer language or Permission of the instructor. (AR)

EME 6628 Administrative and Instructional Applications of Technology (3). Topics of this course include data management, instructional management, teleconferencing, scheduling, and productivity software for educational leaders and school managers. (AR)

EME 6905 Directed Study: Computer Education (1-3). The course provides an opportunity for the student to plan and carry out an independent study project under direction. Prerequisite: Permission of the instructor. (F,S,SS)

EMR 5215 Strategies for Teaching Students with Mental Retardation (3). Familiarizes students with instructional strategies and specialized approaches for teaching students with mental retardation. Requires extensive field work. Prerequisites: EDG 5414, EDG 5414L, EEX 6051 and EEX 6608. (AR)

EMR 6852 Advanced Theory and Practice: Mental Retardation (3). Major concepts in the area of mental retardation and skills in the application of these concepts to education. (S,SS)

ESE 6215 Secondary School Curriculum (3). Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations. (AR)

EVT 5078 Technical Education in American Society (3). Knowledge of the basic role and current status of technical education in an industrial democracy. Designed for students interested in post-secondary education. (S)

EVT 5168 Curriculum Development in Vocational Education (3). Knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization. (S)

EVT 5255 Cooperative Vocational Education Programs (3). Knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education. (F)

EVT 5265 Supervision and Coordination of Vocational Education Programs (3). Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals. (F)

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). First in series of graduate courses designed to prepare qualified health professionals holding bachelor's degrees with professional education skills necessary to become competent teachers. Approved for "special methods of teaching health occupations education." (AR)

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). Provides opportunity to expand/update the knowledge base of health care system combining experiences in health care delivery system with curriculum updating. Professional licensure and liability insurance required. May be repeated. (AR)

EVT 5369 Vocational Educational Media (3). Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts. (S)

EVT 5650 Trends and Issues in Vocational Education (3). Knowledge of the basic philosophical and curricular trends and issues in vocational technical education at the international, national, state, and local levels. (F)

EVT 5664 Community Relations and Resources for Vocational Education (3). Knowledge and skill in utilizing community resources and establishing public relations procedures and practices to implement vocational education programs. (SS)

EVT 5695 International Comparative Vocational Education (3). Knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries. (S)

EVT 5769 Evaluation in Vocational and Technical Education (3). Knowledge and skill in the development of criteria, tests, measurements, and analysis of data to assess teaching, learning, and objectives. (F)

EVT 5905 Directed Study in Vocational/Technical Education (1-3). Identification, research, and reporting on a special problem of interest to the student. Subject to approval of program advisor. (F,S,SS)

EVT 5925 Special Topics in Vocational Education (1-6). Selected competencies related to instructional and technical areas. (AR)

EVT 5927 Special Topics in Health Occupations Education (1-3). Selected topics related to instructional and technical areas. (AR)

EVT 6157 Theory of Work and Careers in Vocational and Technical Education (3). Knowledge of concepts and principles of work, careers, and technology and related individual, social, and economic benefits with implications for vocational and technical education. Prerequisite: Graduate standing. (F)

EVT 6264 Administration of Vocational Education Programs (3). Knowledge of the principles, practices, functions, and roles of administration in the operation of vocational education programs. (S)

EVT 6318 Current Issues in Health Occupations and Nursing Education. (3). Designed to focus qualified health professionals holding a bachelor's degree with professional education skills necessary to identify and conduct research on current issues related to teaching in health occupations education. (AR)

EVT 6359 Vocational Education in a Multicultural Setting (3). Knowledge and skill in developing and modifying vocational education programs, materials, and practices for a multicultural setting. (SS)

EVT 6760 Research in Vocational Education (3). Knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education. (S)

EVT 6925 Special Topics in Vocational Education (1-6). Selected topics related to professional and program areas. (AR)

EVT 6930 Seminar in Vocational Education (3). Discussion of special instructional, curricular and/or administrative and supervisory problems and issues in vocational education. Prerequisite: Graduate standing. (F)

EVT 6946 Supervised Field Experience (3-6). Application and refinement of competencies in either classroom, laboratory, or administration and supervision, via school-based field experiences. Placement is subject to approval of program leader. (AR)
EVT 6947 Internship in Vocational Education (3). Knowledge and skill in a new leadership setting, relative to the student’s selected area of emphasis. (AR)

EVT 7964 Comprehensive Doctoral Examination, Vocational and Technical Education Leadership. (0). Comprehensive Doctoral Examination in Vocational and Technical Education Leadership. Prerequisite: Permission of major professor. (F,S,SS)


EVT 7985 Dissertation Defense; Vocational and Technical Education Leadership. (0). Defense of Dissertation. Prerequisite: Permission of major professor and EVT 7980. (F,S,SS)

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit. (AR)

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension—an exploration of attitudes and values related to sexuality. (AR)

FLE 5895 Bilingual Education Teaching Methodologies (3). Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F)

FLE 5908 Directed Study in Foreign Language Education (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

FLE 5945 Supervised Teaching: Modern Languages (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Master’s Track Program and completion of prerequisite course work in education and subject matter area. (F,S)

FLE 6336 Methods of Teaching Modern Language (3). A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisite: LIN 3010 or ENG 3500 or equivalent. (F,S)

FLE 6925 Special Topics in Second Language Education (1-3)(ARR). Production and application of materials and techniques in second language education in a laboratory or field setting. (S)

FLE 6938 Seminar in Second Language Testing (3). Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing. Language proficiency, language and society, bilingual-bicultural education, and error analysis and the language learner. (S,SS)

HEE 5335 Trends and Issues in Home Economics Education (3). Analysis of current social, economic, and educational trends and issues impacting upon home economics education and their implications for current and evolving practices. (F)

HEE 5360 Teaching Child Development (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5361 Teaching Consumer Education and Family Economics (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5362 Teaching Clothing and Textiles (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5363 Teaching Family Life Education (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5364 Teaching Housing and Home Furnishings (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5365 Teaching Food and Nutrition (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5905 Directed Study in Home Economics Education (1-3). Designed for advanced students in home economics education who wish to pursue specialized topics. Requires prior approval of instructor. (F,S)

HEE 5927 Special Topics in Home Economics Education (1-3). Development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (S)

HEE 6156 Teaching Home Economics in Diverse Environments (3). Utilization of current educational developments, evolving strategies, materials, and resources to teach and evaluate home economics programs in diverse settings. (S)

HEE 6915 Research in Home Economics Education (3). Analysis and application of research pertaining to philosophy, curriculum, evaluation, and teacher education in home economics. Subject to approval of program advisor. (F)

HEE 6928 Special Topics in Home Economics Education (1-3). Development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (F,S)

HEE 6937 Seminar in Home Economics Education (3). Application of selected instructional, curricular, and/or administrative principles and practices to the solution of problems of special interest to home economics educators. Subject to approval of program advisor. (S,AR)

HES 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings. (AR)

HME 5225 Problems of Home Management in Contemporary Society (3). Influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes,
LAE 5465 Adolescent Literature in Middle/Secondary Schools (3). This course examines a wide variety of adolescent and young adult literature. Assists students in the development of instructional strategies for organizing literary experiences among young learners. Prerequisite: Admission into program. (AR)

LAE 5908 Directed Study in English Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (AR)

LAE 5927 Special Topics in Language Arts (3). Available to undergraduate and graduate education majors. Provides opportunities to develop skills and knowledge of reading/language arts instruction. Permission of the instructor required. (AR)

LAE 5945 Supervised Teaching: English Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

LAE 6305 Instruction in Early Childhood Language Arts (3). Required in Master's program in Early Childhood Education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in preschool, kindergarten and primary grades. Prerequisite: LAE 4314 or Permission of the instructor. (AR)

LAE 6319 Instruction in Elementary Language Arts (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary education. Prerequisite: LAE 4314 or Permission of the instructor. (AR)

LAE 6339 Teaching English in the Secondary School (3). Analysis of methods, programs, and materials for teaching English in the middle school and senior high school, and development of teaching skills. Prerequisite: Undergraduate course in methods of teaching English. (S)

LAE 6815 Computers in English and the Language Arts (3). Covers the basics needed to integrate computers in teaching language arts. Emphasizes selecting and learning to use software to meet objectives in language, literature, and composition. Corequisite: English major or equivalent (AR)

LAE 6925-26 Special Topics in English Education (1-3). Production and application of materials and techniques in English education in a laboratory or field setting. (AR)

LAE 6935 Seminar in English Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others, with the consent of the instructor. (F)

LAE 7938 Doctoral Seminar in English Education (3). Advanced doctoral study of current theories and research related to English education. Prerequisites: LAE 6935, EDF 6486. (AR)

LEI 5440 Program Development in Parks and Recreation (3). The development of specific programs in parks, recreation, and sports. (S)

LEI 5503 Liability and Law in Leisure, Recreation and Sports (3). A detailed analysis of legal issues related to leisure service, delivery and sport management including legal foundations, legal liability, disabled services and current case analysis. (S)

LEI 5510 Program Administration in Parks, Recreation and Sport (3). A detailed analysis of administrative procedures and responsibilities in connection with parks and recreation facilities and personnel. (F)

LEI 5595 Seminar in Parks and Recreation Management (3). A discussion of current problems, issues, and trends in administration of parks and recreation programs. (F)

LEI 5605 Philosophical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of predesign, design, development, actualization of park and recreation facilities. Course will explore funding, budget, site selection, layout, and maintenance. (F)

LEI 5716 Program Planning in Therapeutic Recreation (3). This course is designed to prepare the student for the development of systematically designed therapeutic recreation service delivery programs from the viewpoint of the T.R. specialist and the T.R. administrator. (S)
MAE 5516 Diagnosis and Remediation in Mathematics (3). Available to undergraduate and graduate education majors. Provides study of symptoms, causes and consequences of children’s math difficulties. Prerequisite: MAE 4310, or Permission of the instructor. (AR)

MAE 5655 Computers in Mathematics Education (3). Examines the use of computers (microcomputers) in secondary school mathematics. Designing, evaluating, and using varied types of programs in mathematics classes. Learning to use computers to design mathematics curriculum. (F)

MAE 5908 Directed Study in Mathematics Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F, S, SS)

MAE 5923 Special Topics in Elementary Math Education (3). Available to undergraduate and graduate education majors. Provides opportunities to produce and apply materials and strategies in math ed in elem and middle schools. (AR)

MAE 5945 Supervised Teaching: Mathematics Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Alternate Track Master’s Program and completion of prerequisite course work in education and subject matter area. (S)

MAE 6305 Instruction to Early Childhood Mathematics (3). Required in master’s program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials and review of research, in preschool, kindergarten and primary grades. Prerequisite: MAE 4310 or Permission of the instructor. (AR)

MAE 6318 Instruction in Elementary Mathematics (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. Prerequisite: MAE 4310 or Permission of the instructor. (F, S, SS)

MAE 6336 Teaching Mathematics in the Secondary School (3). Analysis of methods, programs, and materials for teaching mathematics in the middle and senior high school, and development of teaching skills. Prerequisites: Undergraduate secondary math methods and Permission of the instructor. (S)

MAE 6645C Workshop on Metric Education (1-3). A workshop in Metric Education: trends, teaching strategies, programs and materials. (AR)


MAE 6899 Seminar in Mathematics Education (3). Designed to provide the advanced student with deeper understanding related to mathematics education. (SS)

MAE 7165 Curriculum Development in Mathematics Education (3). This course is required in the Ed.D. degree program in mathematics education. It will examine the history of K-12 mathematics curriculum and the current issues in mathematics education. Prerequisites: MAE 5655, MAE 6336, MAE 6899, and the entire advanced core.

MHS 5350 Educational-Vocational Counseling (3). Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development. Prerequisite: MHS 5400.

MHS 5400 Counseling Skills and Techniques (3). Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling.

MHS 6200 Measurement and Appraisal in Counseling (3). Concepts and skills related to the use of tests and other appraisal procedures in counseling. Particular emphasis on career and vocational choice processes. Laboratory experiences included. Prerequisite: EDF 5481.

MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education (3). Concepts and skills in using behavior modification, contingency contracting, cognitive behavior management, self-instructional training, problem solving skills and parent and/or teacher consultation.
MHS 6411 Counseling and Consultation in Community Settings (3). Extended laboratory experiences stressing the development of behavioral/cognitive intervention skills in short-term counseling and consultation. Prerequisites: MHS 5400 and MHS 6410 or equivalent.

MHS 6427 Adult Psychopathology (3) Study of the causes, treatment, and diagnosis of emotional and behavioral disturbances in adults.

MHS 6428 Cross Cultural Counseling (3). Concepts and skills involved in counseling clients with backgrounds different from the majority culture. Prerequisite: MHS 5400.

MHS 6450 Substance Abuse Counseling (3). This course will educate mental health practitioners in understanding substances and to assist in counseling those who abuse them.

MHS 6470 Human Sexuality Counseling (3). Counseling issues, strategies and resources in human sexuality relative to mental health professionals. Prerequisite: MHS 5400.

MHS 6500 Theories in Group Dynamics (3). Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: MHS 5350, MHS 6513. (AR)

MHS 6505 Advanced Group Development Laboratory (3). Development of advanced skills in the analysis and understanding of group process, function, and structures through actual observation of an ongoing group. Prerequisites: MHS 6513, MHS 6514. (AR)

MHS 6511 Group Counseling (3). Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisites: MHS 5400, MHS 6513, MHS 6514.

MHS 6512 Organization Development in Education (3). Analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: MHS 6513 and MHS 6514. (AR)

MHS 6513 Human Interaction I: Group Process and Social Behavior (3). Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

MHS 6514 Human Interaction II: Analysis of Group Participation (3). Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority, and membership. Prerequisite: MHS 6513.

MHS 6519C Principles of Design in Group Intervention: Role of the Consultant (3). Focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on diagnostic and behavioral skills that help groups become more effective. Prerequisites: MHS 6513, MHS 6514, MHS 6500, and MHS 6513. (AR)

MHS 6629 Human Interaction III: Organizational Consultation (3). Theoretical concepts and skills in organizational development and change. Competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decision-making, and feedback. Prerequisite: MHS 6513, MHS 6514. (AR)

MHS 6630 Program Evaluation in Counseling & School Psychology (3). Evaluation skills in the student’s area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

MHS 6700 Ethical, Legal and Professional Issues in Counseling (3). Competencies in regard to development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational setting.

MHS 6800 Advanced Practicum in Counseling (9). Advanced competencies in counseling and consultation. Prerequisites: Course work completion.

MHS 6802 Personality Theories (3). A survey of the various cognitive, psychodynamic, behavioral, humanistic, existential and family systems theories of personality development and change are examined.

MHS 6820 Supervised Field Experience in Counseling (9). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. Prerequisites: MHS 6800 and course work completion.

MHS 6910 Directed Study in Counseling and School Psychology (1-6). Competencies contracted for between a student and an instructor in accordance with the student’s individual needs. Permission of the instructor required.

MHS 6930 Special Topics in Counseling and School Psychology (1, repeatable to 9). Special topics in relation to counseling or school psychology. Permission of the instructor required.

MHS 6xxx Foundations of Mental Health (3). Examination of the significant events in the history of mental health care that have contributed to the development of the specialty within the counseling profession.

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education. (F,S,SS)

MUE 5928 Special Topics in Music Education (2). Applications of materials and techniques in music in a laboratory or field setting. (AR)

MUE 5945 Supervised Teaching: Music Education (6). Supervised teaching. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite coursework in education and the subject matter area. (S)

MUE 6305 Instruction in Early Childhood Music (3). Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (AR)

MUE 6316 Instruction in Elementary Music (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. (AR)

MUE 6345 The Methodology and Analysis of Music Teaching (3). A data based analysis of methods and programs in the public schools and the development of music pedagogy skills. Reviews current research findings and applies them where applicable to the field of Music Education. Required for the Masters Degree. Prerequisite: Undergraduate Degree. (F)

MUE 6785 Research in Music Education (3). A survey of current research and past research trends in music education.
education. Applied training in techniques of design and data analysis. (AR)

MUE 6815 Psychological Foundations of Music Behavior (3). Overview of acoustical, psychological and physiological foundations of music as it influences human behavior. Covers musical acoustics, anatomy of human hearing, music perception, reactions, personality, mood and powers of music discrimination. Required for the Master of Science in Music Education degree. Prerequisite: Undergraduate degree. (S)

MUE 6925-26 Special Topics in Music Education (1-3). Applications of new, innovative or contemporary materials and/or techniques in music education. May be used for elective credit with permission of the program director. (AR)

MUE 6938 Seminar in Music Education (3). Seminar topics concerning historic music education programs in the United States and other countries, as well as current issues and problems facing the music educator. Required for the Master of Science in Music Education degree. Prerequisites: Undergraduate degree. (S)

PEP 5115 Health/Fitness Instruction (3). Provides the knowledge and skills to evaluate and prescribe health and fitness enhancement programs for healthy adults. Prerequisite: PET 3351. (F)

PEP 5116 Exercise Specialist (3). Provides the knowledge to prescribe exercise for persons with medical limitations, particularly cardiovascular disease. Prerequisites: PET 3351 and PEP 5387. (S)

PEP 5117 Fitness for Older Adults (3). The course explores the value of physical activity for improving the physical and mental well being of older adults. Emphasis is placed on exercise prescription and supervision of programs for those working with older adults. Prerequisite: PET 3351. (AR)

PEP 5206 Youth Sports (3). Provides insight into the issues surrounding youth sport programs including: program development and analysis, parental influences, relationship of sport to psycho-socio development. (AR)

PEP 5216 Sports Psychology (3). Course includes an analysis of psychological variables that influence physical performance. The course is intended for prospective physical educators, coaches, and others interested in motor performance. (S)

PET 5238C Motor Learning for Sport Performance (3). The emphasis in this course is on current and advanced topics related to motor skill acquisition. Laboratory practices and applied techniques related to teaching are examined. (F)

PET 5256 Sociology of Sport (3). Students will be introduced to basic principles of the sociological bases of sport and physical activity. (S)

PET 5387 Exercise Test Technology (3). Provides the knowledge and skill required to conduct an EKG monitored graded exercise test. Prerequisite: PET 3351. (F)

PET 5426 Curriculum in Physical Education (3). Emphasis on curriculum design and development for grades 6-12 Physical Education. Includes examination of objectives, content, methods of teaching and evaluation. (F)

PET 5436 Physical Education Curriculum: K-8 (3). Examination of objectives, content, methods of teaching, and evaluative techniques in physical education. Emphasis on curriculum design and development. (AR)

PET 5447 Curriculum in Physical Education 6-12 (3). To understand the theoretical and practical aspects of designing, developing, and implementing curriculum for the secondary school. (F)

PET 5625 Sports Medicine (3). The class includes topics related to the prevention and treatment of non-traumatic athletic injuries. Practical applications in laboratory experiences required. Prerequisite Exercise Physiology. (S)

PET 5716 Analysis and Observation of Teaching in Physical Education (3). Analysis of the teaching-learning process in physical education. Emphasis on systematic observation instruments and guidelines for systematic development of instructional skills. (F)

PET 5906 Directed Study in Physical Education (1-3). Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor. (F,S,SS)

PET 5925 Practicum in Physical Education (1-3). Production and application of materials and techniques for physical education in a classroom and or field setting. (F,S)

PET 5931 Special Topics in Exercise Physiology (1-3). Designed to present contemporary issues and practices in exercise physiology. Prerequisite: PET 3360. (AR)

PET 5936 Special Topics in Physical Education (1-3). Designed to present contemporary issues and practices in physical education and sport. (AR)

PET 6597 Survey of Research in Physical Education (3). Methods and techniques used in research in physical education. Emphasis on effective use of resources and writing techniques. (F)

PET 6775 Health Fitness Director (3). Designed to prepare the student for ACSM's Health Fitness Director certification. Prerequisite: PET 3351, and PEP 5115. (F)

PET 6785 Exercise Program Director (3). Designed to prepare the student for ACSM's Exercise Program Director certification examination. Prerequisite: PET 3351, PET 5387, and PEP 5115. (SS)

PET 6925-27 Practicum in Physical Education (1-3). Production and application of materials and techniques for physical education in a classroom and or field setting. (F,S)

PET 6932 Seminar in Physical Education (3). Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport. (AR)

PET 6940 Internship in Exercise Physiology: Graduate (3-6). Clinical experience, supervised by physician, designed to provide the student with competence in exercise prescription and leadership in preventive and rehabilitative outpatient exercise programs. Prerequisites: PET 5387, PEP 5115, and PEP 5116. (F,S,SS)

PET 6944 Supervised Field Experience (3-9). Students may use this course to become involved in an in-depth study, research project, or any one of a variety of other activities, under the guidance of a faculty member. (AR)

RED 5304 Literacy Instruction in the Primary Grades (3). Provides understandings, skills and dispositions needed to teach reading and writing to students who are beginning to become literate. Required for students in VE Modified Masters Program. Prereq-
RED 5447 Analysis and Production Reading Materials (3). Elective in graduate program in reading education. Exploration, creation, and evaluation of basic reading materials. Prerequisite: RED 4150 or equivalent. (AR)

RED 5448 Teaching Reading by Computer (3). Elective in graduate program in reading education. Exploring literacy development with technology. Evaluation and creation of computer programs for teaching reading in grades 4-12. No prior computer experience is required. (AR)

RED 5911 Directed Study in Reading (1-3). Elective in reading education. Directed study in area of reading instruction. Permission of the instructor required. (AR)

RED 5925 Special Topics in Reading (3). Elective in master's program in reading education. Study in a specified area of reading education. (AR)

RED 6247 Organization and Supervision of Reading Program (3). Elective in graduate program in reading education. Philosophy, design, and operation of public and private reading programs. Prerequisite: RED 6155 or equivalent. (AR)

RED 6305 Instruction in Early Childhood Reading (3). Required in graduate program in early childhood education. Program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood reading education. Prerequisite: RED 4150 or equivalent. (AR)

RED 6314 Instruction in Elementary Reading (3). Required in graduate program in elementary and reading education. Program development, methods of teaching, selection of materials, and review of research in elementary reading education. Prerequisite: RED 4150 or equivalent. (AR)

RED 6336 Reading in the Content Areas (3). Required in graduate programs in Elementary and reading education and in secondary Modified Master's Programs. Strategies for developing the reading abilities of students in specific subject areas. Prerequisite: RED 6314 For Reading Educaiton majors. (AR)

RED 6515 Programs of Remediation in Reading (3). Required in graduate program in reading education. Knowledge and strategies necessary to improve students’ reading abilities. Prerequisites: RED 6155 or 6305, RED 6546, or their equivalents. (AR)

RED 6546 Diagnosis of Reading Difficulty (3). Required in graduate program in reading education. Knowledge and strategies necessary to assess students' reading abilities. Prerequisite: RED 6155 or 6305, or its equivalent. (AR)

RED 6747 Research in Reading (3). Required in doctoral program and thesis track of Reading Education master's program. Elective in standard Master's track. Includes reading research, critique, methodology and planning. Prerequisite: EDF 5481. (AR)

RED 6805 Practicum in Reading (3). Elective in graduate program in reading education. Supervised experience as reading professional in teaching, assessing, supervising, or research role. Prerequisites: RED 6314. (F,S)

RED 6845 Clinical Procedures in Reading (3). Elective in graduate program in reading education. Reading diagnosis, instruction, and reevaluation in a clinical setting. Prerequisites: RED 6515, RED 6546. (AR)

RED 6931 Seminar in Reading Education (3). Required in doctoral program and thesis track of reading master's program. Elective in standard Master's track. Deals with theory and practice of reading instruction. Prerequisites: Permission of the instructor and RED 6747. (AR)

RED 6932 Critical Issues in Reading Education (3). Elective in Reading Education master's program. Explores topics in specific reading education. (AR)

RED 6971 Thesis in Reading Education (6). Required in thesis track of reading master’s program. Design, implementation, and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor. (F,S,SS)

RED 7912 Doctoral Directed Study in Reading (1-6). An elective course in the reading education doctoral program. Directed research in a specified area of reading education. Repeatable. Prerequisite: Admission to reading education doctoral program. (AR)

RED 7938 Doctoral Seminar in Reading Education (3). Required in Reading Education doctoral track. Advanced study in current theories and research related to reading education. Prerequisites: RED 6747, RED 6931. (AR)

SCE 5905 Directed Study in Science Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

SCE 5930 Special Topics in Elementary Science Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching elementary science. Permission of the instructor required. (AR)

SCE 5945 Supervised Teaching: Science Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (F,S)

SCE 6306 Instruction in Early Childhood Science (3). Required in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. Prerequisite: SCE 4310 or Permission of the instructor. (AR)

SCE 6315 Instruction in Elementary Science (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. Prerequisite: SCE 4310 or Permission of the instructor. (AR)

SCE 6635 Teaching Science in the Secondary School (3). Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills. (F,SS)

SCE 6637 Science Education and Community Resources (3). This course examines the utilization and cultivation of community resources to meet science education goals for various populations. (AR)

SCE 6925-26 Workshop in Science Education (1-3). Production and application of materials and techniques in
science education in a laboratory or field setting. (AR)

SCE 6931 Special Topics in Science Education (3). An individual topic or limited number of topics not otherwise offered in the curriculum that facilitate science teaching in the elementary school will be selected. (AR)

SCE 6933 Seminar in Science Education (3). Analysis of research trends and selected topics in science education. Mainly for graduate students in secondary science education. Individual needs and interests will determine the fine structure of the course content. (S)

SCE 7165 Curriculum Development in Science Education (3). Analysis of theoretical basis of curriculum development in Science Education Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486. (S)

SCE 7761 Research in Science Education (3). Application of research methodology to Science Education. Analysis of current research. Development of research proposal in Science Education. Conduct field study. Prerequisites: SCE 6933, EDF 6486, SCE 7165. Corequisite SCE 7938. (SS)

SCE 7938 Doctoral Seminar in Science Education (3). Advanced doctoral seminar in current theories and research related to science education. Prerequisites: SCE 6933, EDF 6486. (SS)

SDS 5460 Crisis Counseling and Intervention (3). Prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss. (F)

SDS 6411 Counseling Children and Adolescents (3). Theory and application of counseling elementary age children and adolescents including family issues and interventions, legal and ethical considerations and counseling at-risk and exceptional children. Prerequisite: MHS 5400.

SDS 6700 Organization and Administration of School Counseling (3). Components, elements and interventions of comprehensive, developmental school guidance program models. Emphasis on organization, administration, and evaluation of system, components, and services. (F,SS)

SDS 6784 School Law for Student Service Workers (3). Overview of current legal issues and problems for school counselors, psychologists and social workers. (SS)

SDS 6800 Advanced Practicum in Counseling (3). Advanced competencies in counseling and consultation. Prerequisites: Course work completion. (F,SS)

SDS 6820 Supervised Field Experience in Counselor Education (6). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. (F,SS)

SDS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Special topics in relation to counseling or school psychology. (F,SS)


SPS 6191L Psycho-Educational Assessment I: Lab (2). Practical skills in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191. Lab fee required. (F)


SPS 6192L Psycho-Educational Assessment II: Lab (2). Practical skills in the assessment of psycho-educational processes in children. Emphasis on assessing disorders in the visual, auditory, haptic, language, and sensory integration areas. Corequisites SPS 6191, SPS 6191L. Lab fee required. (S)

SPS 6193 Psycho-Educational Assessment III: Behavior (3). Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisite: SPS 6193L. Prerequisites: SPS 6191, SPS 6192. (SS)

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192. Lab fee required. (S)

SPS 6199 Family-School Consultation and Collaboration (3). Designed to develop essential communicative/interactive interpersonal skills, as well as collaborative problem-solving skills, in special education, counseling, and school psychology graduate students. Corequisite: Graduate standing. (AR)

SPS 6678 Supervised Field Experience in School Psychology (1-10). Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings. (F,S)

SPS 6805 Professional Problems in School Psychology (3). Competencies in regard to the development, role and function of school psychologists. General orientation and legal and ethical issues included. (F)

SPS 6930 Academic and Behavioral Interventions in the Schools (3). An introduction to effective academic and behavioral school-based interventions including a functional assessment of behavior. (SS)

SSE 5908 Directed Study in Social Studies Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,SS)

SSE 5929 Workshop in Elementary Social Studies Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching social studies. Permission of the instructor required. (AR)

SSE 5945 Supervised Teaching: Social Studies Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

SSE 6305 Instruction in Early Childhood Social Studies (3). Required in masters program in early childhood education. Refines skills related to program development, methods of
teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (AR)

SSE 6355 Instruction in Elementary Social Studies (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary education. (AR)

SSE 6394 Social Studies in Other Nations (3). The course will examine the concept of social studies as a subject area in elementary and secondary schools found in both developed and developing nations. Comparisons and contrasts will be made. Prerequisites: SSE 6633, SSE 6939. (AR)

SSE 6633 Teaching Social Studies in the Secondary School (3). Analysis of methods, programs, and material for teaching social studies in the middle and senior high school, and development of teaching skills. (S, SS)

SSE 6795 Seminar: Research in Social Studies Education (3). The course will examine research in social studies education. The course will serve as a lab for developing a dissertation research design. Prerequisite: EDF 5481. Corequisites: EDF 6486, EDF 6403 or EDF 6475. (AR)

SSE 6924 Workshop in Content, Method, and Materials of Teaching Social Studies (1-3). Focus on content, methods, and materials needed for teaching social studies in the elementary school, K-6. (AR)

SSE 6925-28 Workshop in Social Studies Education (1-3). Production and application of materials and techniques in social studies education in a laboratory or field setting. (AR)

SSE 6939 Seminar in Social Studies Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor. (S)

SSE 7938 Doctoral Seminar in Social Studies Education (3). Advanced doctoral study in current theories and research related to social studies education. Prerequisites: SSE 6939, EDF 6486. (AR)

TSL 5142 Curriculum Development in English as a Second Language (3). Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult). (F, S)

TSL 5245 Developing ESOL Language and Literacy (3). This course examines how linguistic theories are applied in the classroom for the development of language and literacy in language minority students. (F, S)

TSL 5371 Special Methods of TESOL (3). Investigation of modern techniques for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to speakers of other languages. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F, S)

TSL 5938 Principles of ESOL Testing (3). Advanced study and research on current issues in the field of ESOL testing. Topics include principles and practices of ESOL testing for classroom use, communicative language test development, criteria for evaluating testing instruments, and study of standardized ESOL tests. Prerequisites: TSL 5371 or TSL 4340. (S)

TSL 6350 Troublesome English: Grammar for ESOL Teachers (3). Course is designed to enhance ESOL teachers' ability to understand and explain the operation of American English grammar using an inductive approach of exploration and discovery. (AR)

TSL 6908 Field Component (3). Provides opportunity to carry out a variety of projects designed to develop critical reflection about teaching beliefs and practices in an ESOL classroom environment. Prerequisites: Admission to MS/ESOL program and completion of required course work. (F, S)
College of Education

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Wendy Cheyney
M. A. Bilbao

Assistant Deans
Carmen Mendez

Chairpersons
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Dustin, Daniel L., Ph.D. (University of Minnesota), Professor, Parks and Recreation Management, Health, Physical Education, and Recreation

Escotet, Miguel Angel A., Ph.D. (University of Nebraska), Professor, Educational Foundations, International and Intercultural Development Education and Research, Educational Foundations and Professional Studies

Fain, Stephen M., Ed.D. (Teachers College, Columbia University), Professor, Curriculum and Instruction, Educational Leadership and Policy Studies

Farouk, Mohammed, Ed.D. (West Virginia University), Associate Professor, Social Studies/Global Education, Chairperson, Subject Specialization.

Farrell, Robert V., Ph.D. (Teachers College, Columbia University), Associate Professor, Social Foundations of Education, Educational Foundations and Professional Studies

Feinberg, Rosa Castro, Ph.D. (University of Miami), Associate Professor, Educational Foundations, Bilingual Education/TESOL, Educational Foundations and Professional Studies

Fine, Joyce, Ed.D. (Florida International University), Associate Professor, Reading and Language Arts Education, Elementary Education

Fisher, Allen, Ph.D. (University of Connecticut), Associate Professor, Educational Leadership, Educational Leadership and Policy Studies
Gallagher, Jo D., Ph.D. (Florida State University), Associate Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor, Educational Research, Educational Leadership and Policy Studies, and Senior Vice President, Business and Finance

Garcia, Delia C., Ed.D. (Florida International University), Assistant Professor, Educational Foundations, Urban Education, TESOL

Gavilan, Marisol, Ed.D. (University of Tennessee), Associate Professor, Educational Psychology and Bilingual Education/TESOL, Educational Psychology and Special Education

Goldenberg, I. Ira, Ph.D. (University of Connecticut), Professor, Urban, Multicultural and Community Education

Greenberg, Barry, Ph.D. (New York University), Professor, Educational Research and Community College Teaching, Educational Leadership and Policy Studies

Gregg, Gail, Ph.D. (Florida State University), Associate Professor, English Education, Subject Specializations

Hammons, Frank T., Ed.D. (Virginia Polytechnic Institute and State University), Associate Professor, Vocational Industrial Education, Subject Specializations

Harlin, Rebecca P., Ph.D. (University of Florida), Associate Professor, Early Childhood Education, Elementary Education

Hasson, Deborah J., M.A. (Florida International University), Instructor, Educational Foundations, Urban Education, TESOL

Hibbler, Dan, Ph.D. (University of Illinois), Assistant Professor, Parks and Recreation, Health, Physical Education and Recreation

Jiang, Zhonghong, Ph.D. (University of Georgia), Associate Professor, Mathematics Education and Computer Education, Subject Specializations

Kenny, Maureen, Ph.D. (Nova-Southeastern University), Assistant Professor, Mental Health Counseling, Educational Psychology and Special Education.

Killian, Patricia A., Ph.D. (University of Texas-Austin), Assistant Professor, Teaching English as a Second Language, Educational Foundations and Professional Studies

Kossack, Sharon Wall, Ph.D. (University of Georgia), Professor, Reading and Language Arts Education, Elementary Education

Krauss, Lisbeth Dixon, Ph.D. (University of Florida), Associate Professor, Literacy Education

Lazarus, Philip J., Ph.D. (University of Florida), Associate Professor, Educational Psychology and School Psychology, Educational Psychology and Special Education

Lewis, Scott P., Ph.D. (University of California-Los Angeles), Assistant Professor, Science Education, Elementary Education

Lopez, Richard, Ed.D. (Florida Atlantic University), Associate Professor, Exercise Physiology, Health, Physical Education, and Recreation

Lucky, Luretha, Ed.D. (Arizona State University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education

Marshall, Nancy, Ph.D. (Cornell University), Associate Professor, Reading and Language Arts Education, Elementary Education

Martinez-Perez, Luis A., Ph.D. (Florida State University), Associate Professor, Science Education, Subject Specializations

McClintock, C. Edwin, Ph.D. (University of Georgia), Professor, Mathematics Education and Computer Education, Subject Specializations

McEachern, Adriana, Ph.D. (University of Florida), Associate Professor, Counselor Education and Educational Psychology, Educational Psychology and Special Education.

Mendez, Carmen, MPA (Florida International University), Instructor, Public Administration, and Assistant Dean for Budget and Grants Administration

Mendoza, Alicia, Ed.D. (University of Miami), Associate Professor, Early Childhood Education, Elementary Education

Miller, Lynne D., Ph.D. (University of Arizona), Associate Professor Literacy Education, Chairperson Elementary Education

Mohamed, Dominic A., Ph.D. (University of Minnesota), Associate Professor, Vocational Administration and Supervision and Vocational Education, Subject Specializations

O'Brien, George E., Ph.D. (University of Iowa), Associate Professor, Science Education, Elementary Education

Pelayo-Nogueras, Martha, Ph.D. (Florida International University), Assistant Professor, Educational Psychology, Educational Psychology and Special Education

Perez-Prado, Aixa, Ph.D. (Florida State University), Assistant Professor, Teaching English as a Second Language, Educational Foundations and Professional Studies

Ritzl, William M., M.S. (Florida International University), Instructor, Art Education, Elementary Education

Rosenberg, Howard, Ed.D. (Teachers College, Columbia University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education

Rossatto, Cesar, Ph.D. (University of California-Los Angeles), Assistant Professor, Social Studies Education

Ryan, Colleen A., Ph.D. (Ohio State University), Associate Professor, Educational Psychology, Educational Foundations and Professional Studies

Sandiford, Janice R., Ph.D. (Ohio State University), Associate Professor, Health Occupations Education, Computer Education, Higher Education, Educational Leadership and Policy Studies

Sandler, David, M.S. Ed. (Florida International University), Instructor, Exercise Physiology, Health, Physical Education, and Recreation

Shulka, Smita, Ph.D. C.T.R.S. (University of Oregon), Assistant Professor, Special Education, Educational Psychology and Special Education

Slater, Judith J., Ed.D. (University of Florida), Associate Professor, Curriculum and Instruction, Educational Leadership and Policy Studies

Smith, Douglas H., Ph.D. (Ohio State University), Associate Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies
Spears-Bunton, Linda, Ed.D.
(University of Kentucky), Associate Professor, English Education, Subject Specializations

Strichart, Stephen S., Ph.D. (Yeshiva University), Professor, Special Education for Learning Disabilities, Educational Psychology and Special Education

Thirunarayanan, M.O., Ph.D., (Arizona State University), Associate Professor, Learning Technologies, Educational Foundations and Professional Studies

Tooher, Jethro, Ph.D. (Temple University), Professor, Educational Psychology and Community Mental Health Counseling, Educational Psychology and Special Education

Trigoboff, Debra, M.S. Ed. (Northwest Missouri State University), Instructor, Sports Medicine, Health Physical Education, and Recreation.

Vos, Robert. Ed.D. (Rutgers University), Associate Professor, Learning Technologies, Subject Specializations

Wolff, Robert M., Ph.D. (Ohio State University), Associate Professor and Chairperson, Parks and Recreation, and Sport Management, and Chairperson, Health, Physical Education and Recreation

Woods, S. Lee, Ed.D. (Rutgers University) Associate Professor, Educational Foundations and General Methodology, Educational Foundations and Professional Studies

Yongue, Bill Ed.D. (West Virginia University), Assistant Professor, Elementary Physical Education, Health, Physical Education and Recreation.
College of Engineering
College of Engineering

Doctor of Philosophy

The College offers Doctor of Philosophy degrees in Civil, Electrical and Mechanical Engineering. Areas of study in Electrical Engineering include: Biomedical Engineering, Micro-Electronics, Communications, Computer Engineering, Systems and Controls, Electromagnetics, Power Systems, Digital Signal and Image Processing. Areas of study in Mechanical Engineering include: Thermo/Fluid, Biomedical, Mechanics, Materials, CAD/CAM, and Manufacturing. Civil Engineering areas include: Transportation, Environmental, Structural, Geotechnical, Construction, and Water Resources.

Master of Science Degree Programs

The College offers Master of Science degrees in Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Management, Environmental Engineering, Industrial and Systems Engineering, Mechanical Engineering, and Construction Management. The various curricula for the College are designed to give the student an education for entry into the profession of engineering.

Prospective graduate students should refer to the appropriate section of the catalog, or contact the graduate advisor in the program of interest.

Note: The programs, policies, requirements and regulations listed in the catalog are continually subject to review, in order to serve the needs of the University’s various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice.

Florida International University and the College believe in equal opportunity practices which conform to all laws against discrimination and are committed to non-discrimination with respect to race, color, creed, age, handicap, sex, marital status, or national origin. Additionally, the University is committed to the principle of taking the positive steps necessary to achieve the equalization of educational and employment opportunities.

Florida Engineering Education Delivery System (FEEDS) provides graduate engineering education courses to place-bound professionals located throughout the State via video tape, ITFS, and web-based asynchronous learning modules.

Academic Support Services

The area of academic support services is responsible for the coordination of academic advising and student service activities for the college. This area is also responsible for keeping students informed of educational opportunities such as scholarships, tuition waivers, internships, co-op studies and campus resources. It also serves as a liaison between the academic departments and the student support services university wide and facilitates the registration process in order to make sure that the students adhere to the College guidelines.

A student who has been accepted to a degree program in the College must consult an advisor prior to the first class enrollment. An advisor may be assigned by contacting the Department in which an academic major is desired. Continued contact (at least once per semester) with the advisor is urged to review progress and select courses for each succeeding semester. Such contact is required until an approved program of study is completed.

Prerequisites

Courses taken without the required prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Scientific Laboratory Fees: are now being assessed for certain courses where laboratory classes are part of the curriculum. Specific information on scientific laboratory fees may be obtained from the academic departments or University Financial Services.

Academic Appeal Procedures

Academic Appeals not covered under the Academic Misconduct Policy shall be processed in the following manner:

Step 1. The student and faculty member will meet informally in an attempt to resolve the problem within ten days of the alleged occurrence.

Step 2. If the informal meeting does not result in an acceptable remedy, the student can appeal in writing to the Department/Divisional Chairperson within ten days of the informal meeting. The written appeal should
include the nature and conditions of the problem and a summary of the informal meeting with the faculty member involved.

Within ten days of the receipt of the written appeal, the Chairperson, student, and faculty member will meet in an attempt to resolve the problem.

Step 3. If the results from the meeting in Step 2 is not acceptable, the student can appeal to writing to the Dean of the College within ten days. The written appeal should include the nature and conditions of the problem and a summary of the meetings in Step 1 and in Step 2.

Within ten days of the receipt of the written appeal, the Dean will meet with the Chairperson, the student, and the faculty member in an attempt to resolve the problem.

The Dean will provide a written decision within ten days of the meeting in Step 3.

The Dean’s decision is final.

College of Engineering Dismissal Policy

A student who has been dismissed from the University for the first time may see their advisor to begin the appeal procedure. The advisor will determine if the student is eligible to appeal the dismissal or if there is a way to lift the dismissal. If the student is eligible, he or she must make an appointment to see the chairperson or associate chairperson. The student must bring a letter stating when he or she was dismissed the first time and what he or she is going to do to ensure that he or she is not dismissed a second time. The student must also sign an agreement stating that he or she understands that the department will not allow a second reinstatement if the student is dismissed again. If the chairperson determines that the student is worthy of reinstatement, he or she will prepare and sign a memo for the Dean’s consideration stating the conditions for the student to be reinstated (the student will be readmitted on academic probation). If the student does not meet these conditions, he or she will be dismissed a second and final time from the program.

Any student who is dismissed a second time from FIU will not be readmitted under any circumstances. Institutional policy is that students may appeal to the Dean’s Office, but only a first dismissal appeal is considered in the College of Engineering, a second dismissal appeal will not be accepted.

Department-Specific Information

Please refer to your selected department in this catalog for additional information.

Research and Development Centers

NSF-The Center for Advanced Technology and Education—CATE

Introduction

The NSF-funded Center for Advanced Technology and Education (CATE) provides a computing environment capable of engaging researchers as well as facilitating classroom and laboratory-based instruction in critical technology areas. CATE constitutes an infrastructure that is viable for cutting-edge research activities providing an environment that enhances the potential for: (a) parallel and distributed processing, (b) high performance 3-D graphics for simulation, rendering, and modeling, (c) real-time processing capability, (d) operating systems, graphics, and software development that meet current standards, and (e) high-speed data acquisition, playback, analysis.

Research Areas

- Image Processing and Computer Vision
- EEG-Based Research
- Human-Computer and Brain-Computer Interfaces
- Robotics for Motion Planning and Automated Guidance
- Real-time and Multidimensional Signal Processing
- Confocal Microscopy
- Flow Cytometry for Hematology Studies and Data Analysis

Main Equipment

- ESI-256 System, an Electrical Source Imaging as a Human-computer Interface for Brain Research
- Onyx Supercomputer for parallel processing
- Confocal Microscope for time-varying 3-D imagery
- Coulter EPICS Profile II Cytometer for measuring light scatter (fluorescence or laser) of microscopic particles
- Nomadic Mobile Robot (Nomad200) with integrated sensory modules
- Workstations with 22 Indys, 11 Pentium PCs

v Computer Cluster for distributed processing

Human Resources

Director: Malek Adjouadi, Ph.D.
Manager: Patricio Vidal, M.Sc.
Support Staff: Julio Blandon, Erika Suarez, Daniela Viegas, Claudia Rodriguez, Danmary Sanchez, and Robert Hazbun
Faculty: Armando Barreto, Ph.D.; James Story, Ph.D.; Gustavo Roig, Ph.D.; Wunnava Subbarao, Ph.D.; Ana Pasztor, Ph.D.; Maria Matinez, Ph.D.
Postdoctoral Research Associate: Gualberto Cremades, Ph.D.
Graduate Researchers: John Riley, Cristophe Godefroy, Carlos Reyes, Celso Duran, Alison Valdivieso, Mark Rossman, Weiting Cai, Jean Khawand
Undergraduate Researchers: Luz Camacho, Christy Bedia, Alexis Bussiere, Kirenia Nunez, Tony Reddick, Orficio Sanchez, Alejandro Simon

Cardiovascular Engineering Center (CVEC)

Richard T. Schoephoerster, Ph.D.
Associate Professor and Director
Anthony J. Mcoron, Ph.D.
Assistant Professor
James E. Moore, Jr., Ph.D. Associate Professor
Ofer Amit, Research Coordinator
Michael P. Anzelmo, Lab Manager
James D. Bryne, Research Faculty
Roselind Verona, Senior Secretary

The Cardiovascular Engineering Center (CVEC) unifies the efforts of the academic, industrial and clinical sectors in advancing cardiovascular engineering science and technology. It is specifically planned with and designed to support the biomedical industry in South Florida and the $3.1 trillion world market for cardiovascular devices and instrumentation. In addition to its research efforts and collaboration with industry and clinical partners, CVEC serves as the research arm of the Biomedical Engineering Institute (BMEI)—an interdisciplinary unit within the College of Engineering that supports the Biomedical Engineering program and the subsequent research activity.

The Cardiovascular Engineering Center aims to accelerate the transfer of research to practical applications. It concentrates on design, development
Drinking Water Research Center

The Drinking Water Research Center conducts basic and applied studies in the area of water resources as it relates to drinking water quality and quantity. The Center also provides research opportunities for undergraduate and graduate students to conduct independent studies in cooperation with other departments in the University. The Center’s laboratory facilities are certified by the State of Florida to analyze chlorination by-products in water samples.

Examples of the current research projects conducted at the center include dynamic aspects of speciation of metals in the Miami River sediments in relation to particle size distribution and chemical heterogeneity; experimental and mathematical modeling of the fate and transport of contaminants in waters of both natural and engineered systems; characterization of processes that affect the transportation of oils, fuels, and herbicides in surface and ground waters; calibration and validation of watershed management models; pesticide sorption on various geosorbents; surfactant-amended remediation; development of new and improvement of established analytical methods for measurement and detection of contaminants in water and soil by capillary gas chromatography; and the development of pollution prevention assessments in support of industrial ecology. In addition to research activities, the center also conducts short courses for training of local, regional, and national environmental professionals.

Research and Support Staff

Berrin Tansel, Ph.D., P.E., Associate Professor, Civil Environment Engineering, and Director
Shoaali Laha, Ph.D., P.E., Assistant Professor
Mehrzad Mehran, Pharm.D., Senior Research Scientist
Nahid Golkar, M.S., Research Scientist

Future Aerospace Science and Technology Center for Space Cryoelectronics (FAST)

Grover Larkin, Associate Professor, Electrical and Computer Engineering Department, and Director

FAST-SC is one of six centers created by the Air Force as part of its minority university enhancement program, providing research experience opportunities for undergraduate and graduate students of electrical engineering and space cryoelectronics.

The FAST Center evaluates novel applications of space-based cryoelectronics, initially studying new systems for reduction in losses of feed and phase shift networks in phased array transmitter systems. This involves development of low-loss active integrated low-noise phased array or post-processed phased array down-converter receiving systems, high gain-low loss, low noise micro (and later millimeter) wave circuits and systems for space based applications. Of particular interest is the ability to design and fabricate integrated systems which could be used as “steerable” phased array antennas with, some frequency-agility as well.

Current research is focused on issues relating to: integration and hetero-

epitaxy of the buffer and dielectric layer with the GaAs semiconductor and 123 high Tc superconductor layers; obtaining good ohmic GaAs contacts at low temperatures, tailoring the surface morphology of the high Tc superconductor to achieve a designed Q value for microwave passive elements, package design and testing with respect to microwave and thermal cycling considerations, and the identification and minimization of noise sources.

Hemispheric Center for Environmental Technology

HCET

M.A. Ebadian, Professor, Mechanical Engineering Department, and Director
Charles A. Broom, Deputy Director
Amer Awwad, Senior Engineer
Richard Burton, Industrial Liaison Program Manager
Bryan Dehoff, Cincinnati Site Manager
Ana Ferreira, ITI Program Manager
Myrna Goss, QA/QC Manager
William Krummen, Oak Ridge Site Manager
Nick Lailas, Senior Environmental Program Manager
C.X. Lin, MSV Program Manager
David Roelant, CMST Program Manager
Robert Rose, D & D Program Manager
Stan Solomon, Analytical Lab Program Manager
Rajiv Srivastava, TFA Program Manager
Robert Tucker, Acting IT Manager

The Hemispheric Center for Environmental Technology was established by Florida International University and the United States Department of Energy’s Office of Science and Technology (OST) to research, develop, and demonstrate innovative environmental technologies and to establish international alliances to facilitate the implementation of these technologies.

HCET’s research and development (R&D) activities focus on the decontamination and decommissioning of nuclear facilities and the management and reduction of radioactive and hazardous wastes. These R&D activities support the Department of Energy’s Environmental Management programs in the areas of waste characterization, monitoring, and sensor technology; underground storage tank remediation; and decontamination and decommissioning.
HCET's mission is to develop and market technologies to solve environmental problems and foster sustainable development throughout the Americas. To achieve this end, HCET performs R & D, gathers and disseminates market and technology assessment data, facilitates technology transfer, and forms partnerships with industries and governments throughout the Americas. HCET targets its technology development for government organizations and industrial users of environmental technologies. The foundation for HCET's technological capabilities has successfully been built within Florida International University's College of Engineering and Design. HCET has the capability and resources to develop innovative technologies as well as assess and demonstrate technologies that have been developed or modified both in-house and by other vendors. HCET also has the expertise to comparatively evaluate emerging technologies and pursue, organize, and facilitate technology transfer from suppliers to consumers. HCET is equipped with state-of-the-art equipment and machinery to carry out its project goals. HCET's facilities include:

- Open-Air Technology Assessment Site for conducting large-scale technology assessments
- Hazardous Materials Laboratory housing state-of-the-art rheology equipment, with the capacity to perform specialized analytical and engineering activities
- Fully-equipped Analytical Laboratory to define the chemistry and characterization of waste tank forms, evaluate contaminants in groundwater and soil, and monitor air quality levels
- Computational Fluid Dynamics facilities applying CFD techniques for modeling and analyzing the fluid flow and heat transfer in engineering systems
- Fabrication Shop capable of performing lathe operations, two-dimensional CNC milling, precision drilling and cutting, welding and woodworking
- Experimental Facilities for characterization, monitoring, and sensor technology allowing low and high temperature study, single and two-phase flow, heat transfer and phase change, as well as sintering.

HCET recently opened an office in Oak Ridge, Tennessee and Cincinnati, Ohio, to pursue new research and development opportunities.

**Lehman Center for Transportation Research (LCTR)**

L. David Shen, Professor, Civil and Environmental Engineering and Director

Fang Zhao, Associate Professor, Civil and Environmental Engineering and Associate Director

Sylvan C. Jolibois, Jr., Associate Professor, Civil and Environmental Engineering, and Associate Director

Albert Gan, Assistant Professor, Civil and Environmental Engineering and Assistant Director

The Lehman Center for Transportation Research (LCTR) at Florida International University was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place for all of us. The center’s vision is to become a strong “state-of-the-art” transportation research and training facility. LCTR is committed to serve and benefit our society by conducting research to improve mobility, hence the quality of life issues, develop partnerships in the transportation industry, and educate a multidisciplinary workforce to plan, manage and implement transportation systems. Faculty, staff and students at LCTR are involved in research related to the design and operation of transportation systems, public policy, air pollution, and the application of geographic information systems and other advanced technologies such as artificial neural networks and scientific visualization in transportation. Future plans include networking with the public and private industry to collaborate on transportation related research. In addition, applied research will be conducted on, but not limited to intelligent vehicle and highway systems.

**Manufacturing Research Center (MRC)**

Chin-Sheng Chen, Professor, Industrial Engineering Department, and Director

Kinzy Jones, Professor, Mechanical Engineering and Co-Director

Mario Sanchez, Senior Engineer and Laboratory Manager

Based on the principles of concurrent engineering, the Manufacturing Research Center (MRC) was established to serve the manufacturing industry and facilitate manufacturing research. It aims at a seamless integration of computerized engineering systems for design, manufacturing, quality assurance, rapid prototyping, and manufacturing operations for both mechanical and electronic product design and fabrication. Silicon Graphics workstations are used as the backbone of the computer systems, on which software and hardware systems communicate and share information within MRC and are connected to external systems via the Internet. The MRC houses three main laboratories: the Design/Manufacturing Software Systems Laboratory, the Rapid Product Realization Laboratory and the Process Characterization Laboratory.

The Design/Manufacturing Software Systems Laboratory aims at integration and application of enterprise-wide manufacturing software systems via the Internet and Intranet. In collaboration with the Engineering Information Center (EIC) and the College of Business Administration, the laboratory supports CAD systems (Pro/ENGINEER, SolidWorks, AutoCAD), CAM systems (E-Z CAM, MasterCAM, Deneb Robotics), A PDM system (MatrixOne), and an ERP system (SAP). To serve its consortium members, the laboratory provides online resources and learning materials via its website at www.eng.fiu.edu/MRC. In addition to SGI workstations, some of these systems also run on NT stations, with backup and additional computer support by the EIC, forming a designated SGI (Silicon) Works Center at FIU. The SGI Works Center allows design intent modeled in Pro/Engineer or any CAD and analyzed with finite element analysis packages. The user then uses the Deneb Robotics software systems to create a digital manufacturing factory and animate manufacturing operations.

Integrated with the front-end designed tools, the Rapid Product Realization Laboratory provides a means to rapid realization of product design. The laboratory features rapid prototyping systems for both mechanical and electrical components, computer-driven manufacturing equipment, and product inspection systems for rapid verification and feedback into the design process. The rapid prototyping equipment currently consists of
a 3D Systems 250-40 laser stereolithographic system, using laser cross-linked polymer for part realization, a Stratasys fused object modeler using polymer extrusion, and a Helisys' laser-cutting layer object (paper, ceramic tape) cut-and-stack prototype system. Mechanical parts are fabricated with a Fadal VMC15 vertical machining center, a Dynamite CNC turning center, a wire EDM, and a plunge EDM. A Brown & Sharpe coordinate measurement machine provides dimensioning analysis and geometry verification. It closes the loop from product design to prototyping and manufacturing, allowing the evaluation and development of expert manufacturing systems. The electronic manufacturing facility consists of an OZO automatic manufacturing robot that allows rapid manufacturing of printed circuit boards and high performance ceramic-based packages. The system also allows direct writing with both UV and optical photo-plotters.

The Processess Characterization Laboratory is currently focused on injection molding processes (including metal), with a research thrust developing in the area of rapid injection molding, using mold inserts fabricated by rapid prototyping processes. Additionally, investment casting processes, with a focus on rapid prototyping, are under development. The laboratory includes an Arburg injection molder, programmable process development furnaces (hydrogen, vacuum, inert air) up to 1600°C, and a 190-ton press. The materials characterization laboratory consists of a field emission scanning electron microscope, a standard SEM (both with light element non-dispersive X-ray spectroscopy), a 200 keV transmission electron microscope with sample preparation capabilities (ion mill, dimpler, lapping fixtures), an X-ray diffractometer with 1600°C furnace, thermal analysis (DSC, TGA, DMA, thermal expansion), mechanical testing (uniaxial and cyclic loading, creep), and sample preparation and inspection capabilities. The Center is located in CEAS OU 118. For more information, visit the MRC website at www.eng.fiu.edu/MRC or call (305) 348-6557.

FEEDS External Programs

Mercy Cruz, Director, Academic Support Services

Florida Engineering Education Delivery System is a statewide system whereby graduate and undergraduate level engineering courses are delivered to industrial sites and cooperating centers via distance learning. Students with work and family responsibilities are offered the flexibility to take courses around their busy schedules. Courses are delivered through one or more of the following four methods: videotape (asynchronous, traditional FEEDS program); ITFS (synchronous, interactive TV that is one-way video and two-way audio); and videoconferencing (synchronous, interactive TV that is two-way video and two-way audio); and web-based asynchronous networks.

Currently, students can select the necessary courses from FIU via distance learning to obtain a Master’s degree in Biomedical Engineering, Electrical Engineering, Computer Engineering, Environmental Engineering, Industrial Engineering, Construction Management and Engineering Management.

A student taking a course through FEEDS must meet the same requirements as the student on campus and will earn the same credit as if he/she were to attend classes on campus. A student need not be enrolled in a graduate or undergraduate degree program in order to take a course. However, a student who intends to seek admission to a program should be aware that no more than six (6) graduate or fifteen (15) undergraduate credits are allowed to be transferred into a program.
Biomedical Engineering

Richard Schoephoerster, Associate Professor and Director
Armando Barreto, Assistant Professor
Susan D'Andrea, Courtesy Assistant Professor
Malcolm Heimer, Associate Professor
Anthony McGoran, Assistant Professor
James E. Moore, Jr., Associate Professor
Diana Rincon, Assistant Professor
Ilker Yaylali, Courtesy Assistant Professor

Master of Science in Biomedical Engineering

The Biomedical Engineering Institute at Florida International University, with the Miami Cardiac & Vascular Institute, an affiliate of Baptist Health Systems of South Florida, offer Research and Professional tracks for the Master's Degree. In addition, the Institute offers accelerated combined BS/MS and certificate programs. These programs provide an interdisciplinary education intended to prepare the student for professional practice in Biomedical Engineering.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission to the graduate program.

Admission Requirements
The following is in addition to the University's graduate admission requirements:
1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science, or mathematics from an accredited institution, or in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.
2. An applicant must have achieved a "B" average in upper level undergraduate work and a combined score of 1650 on the Graduate Record Examination with the following minimum scores on the individual components: verbal ≥ 350, quantitative ≥ 650, analytic ≥ 550.
3. Applicants who have not satisfied the above will be evaluated for probationary or 10% waiver admission.
4. In addition to the above criteria, foreign students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.
5. The GPA, GRE, and TOEFL scores specified above are to be considered minimum requirements for admissions. Applicants from science areas other than engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission into the graduate program requires the completion of these background courses with no grades below "C" and a grade point average of 3.0 or better.

Graduation Requirements
The degree will be conferred when the following conditions have been met:
1. Recommendation of the advisor and faculty of the Institute.
2. Certification provided by the Institute Director and college Dean that all degree requirements have been met.
3. Met the undergraduate deficiencies, if any existed in the student's program, as additional courses toward the degree.
4. Complete the required semester hours of graduate level credit (not more than six graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
5. Successful defense of an acceptable graduate thesis if required of the program.
6. Students must maintain an overall GPA of 3.0. No grade below a "C" will be accepted in a graduate program. In the event that a student is placed on probationary status, he or she must obtain a directed program from his or her advisor and approved by the Director prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.
7. Complied with all University policies and regulations.

Combined BS/MS Program
This five year, 150 credit hour program seamlessly combines a baccalaureate degree in chemical, electrical, or mechanical engineering with the Master's in biomedical engineering. The program integrates biological sciences and biomedical engineering courses within the undergraduate degree to prepare the student for the graduate program. See the Undergraduate Catalog for the full program of study.

Professional Track
This track is tailored for the engineer currently practicing in the biomedical industry. A student shall complete 27 credit hours of course work and a 3 credit hour capstone project. The courses are organized into three core areas: Life Sciences, Engineering Management, and Biomedical Engineering. The student will choose three courses from the Engineering Management core based on personal training requirements. The biomedical engineering core includes a two course sequence in one of the three primary technical areas for industry: manufacturing, instrumentation, or materials. While the degree is structured as a non-thesis program, students will be required to conduct an industrial project (3 credit hours). The project will include contemporary topics and trends in biomedical engineering technology development and will require a formal report and presentation upon completion.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. A maximum of three credits of independent study beyond the MS project may be included in a study plan.

Professional track students are required to take an oral final examination dealing with the objectives of their study plan. The student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least of which two have appointments in the Institute.

Course Requirements

Life Science Core
BME 5xxx Engineering Analysis of Biological Systems 3
Life Science Elective 3

Engineering Management Core
Select three of the following courses with advisor approval:
STA 5676 Reliability Engineering 3
EIN 5226 Total Quality Management for Engineers 3
EIN 5322 Engineering Management 3
ACG 6026 Accounting for Managers 3
MAN 6245 Organizational Behavior 3
Graduate

3

BME 6xxx Professional Master’s Project 3

An additional six credit hours of core courses must be taken depending on the area of interest.

Design and Manufacturing
EML 4584 Design of Biomedical Systems and Devices 3

Manufacturing Elective 3

Instrumentation
ELR 4202C Medical Instrumentation 4

Instrumentation Elective 2

Materials
EMA 5584 Biomaterials Science 3

Materials Elective 3

Research Track

The research track is a more traditional program geared to prepare the graduate for further graduate study or a career in biomedical research. A student shall complete a minimum of 24 semester credit hours of course work, a minimum of 6 semester credit hours of Master’s Thesis, and one semester of the Biomedical Engineering Seminar. Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. The students will follow a program of study with either an electrical engineering or mechanical engineering emphasis. For students following the mechanical engineering core, one course is required and three other courses are chosen from classes offered through the mechanical engineering program in the areas listed. For students choosing the electrical engineering core, one course is required and three other courses are chosen from classes offered through the electrical engineering program in the areas listed. All students are required to complete the biomedical core and a thesis research project under the supervision of an advisor and committee.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of at least three faculty members (at least two of which have appointments in the Institute). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than ten days before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree upon the outcome pass or fail and report the results to the graduate school. Following the exam the student will implement the committee’s suggestions for improving the draft document. Each committee member must sign the approval form bound in the final document. Hand cover bound copies of the approved thesis must be provided to the advisor, Institute, and the library.

Course Requirements

All students in the Research Track must take four courses in either the mechanical engineering or electrical engineering core and all courses listed in the biomedical engineering core.

Mechanical Engineering Core
EMA 5584 Biomaterials Science 3

Select three courses (minimum of 9 credit hours) from one of the following three areas with advisor approval:
Thermo/Fluids Mechanics/Materials Design and Manufacturing

Electrical Engineering Core
EEL 6075 Biosignal Processing 1 3

Select three courses (minimum of 9 credit hours) from one of the following three areas with advisor approval:
Computer Engineering Communications and Electromagnetics Digital Signal Processing
Solid State Devices and Electronic Materials

Biomedical Engineering Core
BME 5xxx Engineering Analysis of Biological Systems 3

Life Science Elective 3
Biomedical Engineering Electives 6
BME 6xxx Master’s Thesis 6
BME 6xxx Biomedical Engineering Seminar 1

Certificate Programs

The biomedical engineering certificate programs offer a more compact, focused program of study for the practicing engineer in the biomedical industry. All courses in either certificate program are required for the Master’s degree program and would transfer should the student choose to pursue the Master’s degree.

To be admitted into either of the certificate programs, a student must have a Bachelor’s degree in engineering, physical sciences, computer science, or mathematics from an accredited institution. Applicants from science areas other than engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in the certificate programs. Participants in the certificate programs must meet the general requirements for graduate study in biomedical engineering.

Medical Device Engineering Certificate
BME 5xxx Engineering Analysis of Biological Systems Life Science Elective
EML 4585 Design of Biomedical Systems and Devices
EMA 5584 Biomaterials Science

Medical Instrumentation Certificate
BME 5xxx Engineering Analysis of Biological Systems Life Science Elective
ELR 4202C Medical Instrumentation
EEL 6075 Biosignal Processing 1

Course Descriptions

Definition of Prefixes
BME-Biomedical Engineering; EEL-Electrical Engineering; EGM-Engineering Mechanics; EMA-Engineering Materials; EML-Mechanical Engineering

BME 5xxx Engineering Analysis of Biological Systems (3). Quantitative description of physiological systems, from cells to organs. Includes engineering analysis relating design to function. Prerequisite: BSC 1010 or Graduate standing.

BME 6xxx Biomedical Engineering Seminar (1). Problems in Biomedical Engineering and results of ongoing research will be presented and discussed by invited experts. Prerequisite: Permission of the instructor.

BME 6xxx Master’s Thesis (1-6). Master’s thesis on Biomedical Engineering is to be submitted and an oral presentation is to be made. Thesis should contain aspects of design to fulfill requirements for combined BS/MS program. Prerequisite: Advisor’s permission.
EEL 5071 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network. Prerequisite: ELR 4202 or Permission of the instructor. (F)

EEL 5085 Bioradiation Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or Permission of the instructor. (S)

EEL 6075 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: ELR 4202 and EEL 6505 or Permission of the instructor. (F)

EEL 6076 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075 or Permission of the instructor. (S)


EGM 6586 Fluid Mechanics Applications in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machines, dialysis units, and heart valves will be discussed. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of biomeasurement systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging techniques, and electrical safety. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6588 Solid Mechanics Applications in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of the musculoskeletal system and trauma. Design application in orthotics and prosthesis and heart valves. Prerequisite: EGM 4580 or Permission of the instructor.


EGM 6593 Advanced Cardiac Mechanics (3). Applications of principles of solid mechanics to the human cardiovascular system. 3-D reconstruction of the left ventricle, contractile properties and stress distribution in the myocardium. Prerequisite: EGM 6588.

EMA 5584 Biomaterials Science (3). Materials used in prostheses for skin and soft tissue, vascular implant devices, bone repair, and artificial joints. Structure-property relationships for biological tissue. Prerequisites: EGN 3365, and EMA 3702.
Civil and Environmental Engineering

L. David Shen, P.E., T.E., Professor and Chairperson
Irtishad Ahmad, P.E., Associate Professor
Hector R. Fuentes, P.E., D.E.E. Professor
Albert Gan, Assistant Professor
Nestor Gomez, Assistant Professor
Sylvan C. Jolibois, Jr., Associate Professor
Shonali Laha, P.E. Assistant Professor
Chunhua Liu, Research Associate
Beth Pascual, E.I. Instructor/Undergraduate Advisor
Luis A. Prieto-Portar, P.E. Professor
Wolfgang F. Rogge, Associate Professor
Walter Z. Tang, P.E. Associate Professor
Berrin Tansel, P.E. Associate Professor
LeRoy E. Thompson, P.E. Professor Emeritus
Okay Ural, P.E. Professor
Ton-Lo Wang, P.E. Professor
Fang Zhao, P.E. Associate Professor

Lehman Center for Transportation Research
L. David Shen, Director
Hesham Elbadrawi, Research Associate

The Department of Civil and Environmental Engineering offers advanced study for the degree of Master of Science and Doctor of Philosophy. The areas of specialty are Structures, Mechanics, Geotechnical, Construction, Transportation, Water Resources, and Environmental Engineering. Degrees offered include: Master of Science in Civil Engineering, Master of Science in Environmental Engineering, Master of Science in Environmental and Urban Systems, and Doctor of Philosophy in Civil Engineering.

Master of Science in Civil Engineering

Irtishad Ahmad, Coordinator, Civil Engineering Graduate

The Master of Science program in Civil Engineering emphasizes course work as well as research. The student is generally encouraged to specialize in a defined area of civil engineering, but may also find it desirable to pursue a more general program of studies combining subject material. from different areas of specialization and interdisciplinary related courses.

The graduate degree is offered to prepare qualified students for the professional practice of civil engineering. The degree is available in a thesis or non-thesis program. The thesis program entails a minimum of six credits for the successful completion of the research and thesis. The non-thesis program must be supported by the successful completion of a project and a report of substantial engineering content for a minimum of three credits. A student must satisfactorily complete a minimum of 30 semester credits of acceptable graduate course work, which includes a minimum of 12 credits of graduate courses in the specialty area.

Master of Science in Environmental Engineering

Wolfgang F. Rogge, Coordinator, Environmental Engineering Graduate

A Master of Science in Environmental Engineering is available to people interested in graduate work in Environmental Engineering. The program is designed to expose graduate students to a wide range of knowledge on environmental engineering and on problem solving while encouraging them to pursue individual research interests. Thus, the curriculum has a common core of courses but is flexible enough to permit an interdisciplinary approach, if so desired, and allows the student to pursue his or her career goals. A proposed program of studies will be developed by the advisory committee together with the student.

The applicant should hold a Bachelor's degree in engineering, the natural sciences, or a related field. Students who do not meet the stated criteria may be considered for admission if they complete the required prerequisites and satisfy any deficiencies. A student must satisfactorily complete a minimum of 30 semester credits of acceptable graduate courses, including either a master thesis or an engineering project.

Master of Science in Environmental and Urban Systems

Wolfgang F. Rogge, Coordinator, Environmental & Urban Systems

The Master of Environmental and Urban Systems (MEUS) is an interdisciplinary program designed for planning professionals and graduate students in urban issues. The purpose of the MEUS degree is to provide a multi-disciplinary education to men and women interested in the practice of urban and environmental planning. Graduates of the program may eventually apply their skills in various government agencies or private enterprises within a variety of subject areas. Particular emphasis may be placed on issues related to tropical and subtropical areas. The degree requires completion of 30 graduate semester credits.

Admission Policies for all Master of Science Programs

A student seeking admission into Civil Engineering or Environmental Engineering graduate program must have a bachelor's degree in Civil Engineering, Environmental Engineering, or related engineering or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level. In the case of a student seeking admission into Environmental and Urban Systems graduate program, the bachelor's degree must be in environmental or urban systems, environmental studies, engineering, architecture, social sciences, natural sciences, or a related field. All graduate applicants, regardless of previous grade point average or degrees, are required to submit their GRE (general) scores. An applicant must present:

1. A "B" average in upper level undergraduate work, or
2. A combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE),
3. A bachelor's degree in engineering, science, or a related field from an accredited institution and
4. If applicable, a TOEFL score of 500 (paper-based) or at least 173 (computer-based).

5. Three letters of recommendation in the forms provided by the department.
6. A statement of objective in which, in addition to other information the intended concentration must be clearly stated.

Students who meet all criteria, except for requirements 1, 2, and 3 above, may be evaluated for admission under the BOR 10% Policy Waiver.
Grades earned at an institution with non-traditional grading systems will be given every consideration and applicants will be treated equally with students from institutions with traditional grading systems.

Foreign students are admitted as governed by University Admission rules and Board of Regents Rule 6C-6:09:

1. Eligible students may be accepted at the appropriate level subject to space and fiscal limitations.

2. In addition to University admission requirements, foreign students must meet the following requirements as a minimum:
   a. The applicant shall be academically eligible for further study in his or her own country and
   b. The applicant whose native language is other than English shall demonstrate proficiency in the English language by presenting a score of 500 or higher on the Test of English as a Foreign Language (TOEFL).

**Combined BS/MS Program**

Students who have completed a minimum of 90 hours towards their BS degree and have earned at least a 3.3 GPA on both overall and upper division courses may, upon recommendation from three CEE faculty members, apply to the department to enroll in the combined BS/MS program. Students enrolled in the program may count up to 9 hours of CEE graduate courses as credits for both the BS CEE electives and the MS degree. The students will receive a BS degree upon fulfillment of all the BS degree requirements, and an MS degree upon completion of the MS degree requirements.

Admission into the combined program does not automatically qualify the students for admission into the MS degree program. To enroll in the MS degree program, the students must apply (in their senior year) to the graduate school and meet all graduate admission requirements.

Undergraduate students enrolled in the program are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon admission into the graduate school.

For each of the graduate courses counted as credits for both BS and MS degrees, a minimum grade of B is required. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the undergraduate advisor.

Students interested in the program should consult with the undergraduate advisor on their eligibility for the program. The students should also set up an appointment with the graduate coordinator to learn about the graduate program and available courses before completing the application form and submitting it to the graduate advisor. Applicants will be notified by the department on the decision of their application.

**Application Procedures for Master of Science Programs**

A student planning to enroll in the graduate program must complete the following:

1. Submit a Graduate Application for Admission to the Admissions Office. Application forms will be mailed upon request.

2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Admissions Office.

3. Submit scores on the Graduate Record Examination (GRE).

4. Send three letters of recommendation and statement of objectives directly to the graduate coordinator of the appropriate program.

5. Foreign students must submit TOEFL scores (500 minimum score).

   It should be emphasized that the admission cannot be acted upon until all of the documents and credentials have been received.

   Students applying under the BOR 10% waiver must contact the departmental main office for filing instructions and deadlines.

**Degree Requirements**

To be eligible for a Master's degree a student must:

1. Satisfy all University requirements for a Master's degree.

2. Meet all undergraduate deficiencies, and requirements as specified by the students' advisory committee.

3. Complete 30 semester hours of acceptable graduate level courses.

4. Earn a minimum average of 3.0 in all approved courses in the student's program of study.

5. Complete an acceptable thesis or graduate project.

6. Pass an oral examination that includes an oral defense of the thesis or graduate project.

7. Master's degree students in Environmental Engineering must in addition register for one credit of the Graduate Environmental Seminar (ENV 6935) and are encouraged to participate in it each year.

**Grades and Credits**

No course in which a grade below a 'C' is earned may be counted toward the Master of Science in Civil Engineering or in Environmental Engineering.

**Transfer Credit**

The student may receive permission to transfer up to a maximum of six semester hours of graduate credit earned from another institution or up to 12 semester hours of graduate credit earned at FIU after admitted into one of the graduate programs in the Civil and Environmental Engineering Department. Such credits are transferrable provided that: (1) the course(s) were taken at the graduate level at an accredited college or university; (2) grade(s) of 'B' or higher were earned for the courses; (3) the course(s) are judged relevant by the student's advisory committee; (4) the credits were not used toward another degree; and (5) the credit(s) were completed within seven years immediately preceding the awarding of the degree.

Credit is not transferable until the student has earned 12 semester hours in the Civil Engineering or Environmental Engineering programs.

**Time Limit**

All work applicable to the Master's degree, including transfer credit, must be completed within seven years immediately preceding the awarding of the degree.

**Doctor of Philosophy in Civil Engineering**

Irtishad Ahmad, Coordinator

**Admission Requirements**

The requirements for admission to the doctoral program in civil engineering are:

Applicants having a Master's degree in Civil Engineering or Environmental Engineering from a U.S. institution must satisfy the following requirements for admission to the doctoral program:

a. GPA of at least 3.3/4.0 in the master's program

b. GRE verbal plus quantitative of at least 1000 points

c. Three letters of recommendation in the forms provided by the department

d. A statement of objectives in which, in addition to other information,
the intended research area must be clearly stated. (see Identification of Research Area)

Credentials of all other applicants including those with foreign degrees and those with B.S. degrees in other disciplines will be examined by the Graduate Committee on a case by case basis.

Non-English speaking natives should have a TOEFL score of at least 550 points.

In addition to the departmental requirements, all students must satisfy the University's Admission and Graduate Policies and Procedures.

Degree Requirements

Maximum Length of Study

The maximum length of study should be 7 years for students admitted with a B.S. degree and 6 years for students with an M.S. degree. For those students who have not completed their studies within these limits, the length of study may be extended on a yearly basis after petition by the student and approval by the student's supervisory committee.

Identification of Research Area

There are currently three main areas of research or specialization: (1) Structural and Geotechnical Engineering; (2) Environmental and Water Resources Engineering; and (3) Transportation Engineering. The student must contact the Department for a list of all faculty members, visit them, and be accepted by one professor to guide the dissertation research. If no such professor can be found, within 15 months of admission, the student will be dismissed from the Ph.D. program.

Course Requirement

The program will consist of at least 90 semester credit hours beyond the baccalaureate degree, 60 hours of which are course work and 24 hours dissertation, or at least 60 semester credit hours beyond the M.S. degree, 36 hours of which are course work and 24 hours dissertation. A central requirement is the completion and oral defense of a dissertation based upon original research. The selection of courses must be structured based on the rules that follow. A list of core and elective courses also follows:

1. Minimum credits in Mathematics
2. Minimum 6000 or higher level credits in Civil & Environmental Engineering
3. Minimum total credits in Civil & Environmental Engineering
4. Minimum core credits in each of the three major areas in Civil & Environmental Engineering (core courses follow) 18
5. Maximum credits outside Civil & Environmental Engineering and Mathematics (with advisor's approval) 18
6. Minimum dissertation credits
7. Minimum total credits beyond the B.S. degree
8. Total minimum credits beyond the M.S. degree

Additional engineering courses (3000 and 4000 level) may be required as deficiencies for students coming from non-engineering majors.

All courses and dissertation topics must be approved by the student's supervisory committee.

Supervisory Committee

The student's supervisory committee should be appointed as soon as possible within the 15-month period after the student has been admitted to the Ph.D. program. The committee should have a minimum of five members, at least three from the Department of Civil & Environmental Engineering, and at least one from outside the department. All committee members should have a Ph.D. degree.

Residency Requirements

The Ph.D. student should spend at least one academic year in full residency, after successfully passing his/her Comprehensive Examination (see the following description).

Examinations

Students must demonstrate graduate knowledge acquisition in three incremental stages to be awarded a Ph.D. degree in Civil Engineering:

Stage I - Qualifying Examinations: The student must successfully pass a Qualifying Examination based on the student's course work. This examination will take place at a time determined by the student's graduate advisor and supervisory committee and as soon as possible after the student has completed at least 48 credits of course work or 18 credits if the student already has a masters degree. This exam cannot be taken later than the semester in which the student has completed 66 credits of course work. The Department will be announcing each semester the dates of the Qualifying Exams and the students who are candidates to take it. The exam will have two parts. Part A applies to all students within each major area and contains 8 to 10 problems from the core courses. Student may select 6 problems to solve. The exam will be given in one designated room and will last 8 hours and will be open-book. Part B is specific to each student's area of specialization, will be prepared by the advisor and supervisory committee, and will contain problems within each student's main area of research. The examination will last one weekend (i.e., problems will be given to the student at 5:00 pm on a Friday and return by 9:00 am on the following Monday) and will also be open-book. All exams will be graded within a month from the date of the examination. Each student will be informed in writing about his/her overall performance. A student can only fail this exam once. If the student fails the exam, the student will have to take it again the following semester.

Stage II - Comprehensive Examination (Proposal Presentation): the student must successfully complete a Comprehensive Examination. The examination will be in a format of a graduate seminar. It will consist of presenting a dissertation proposal in front of the supervisory committee, other faculty members, students, and visitors. The proposal must be prepared based on the guidelines for dissertation preparation and have the approval of the advisor and the supervisory committee. In the proposal the student has to demonstrate that the work is original and of practical significance to the profession, and that he/she has adequately been prepared to undertake it as determined by the majority of the committee. Preliminary results of the work in progress should also be presented (i.e., the proposal will ideally be presented one year before the expected graduation, but not later than the end of the fourth year). A student can fail the Comprehensive Exam only twice (i.e., a student can take this exam a total of 3 times).

Stage III - Final Oral Defense: the student must conduct the proposed research, write a dissertation, and successfully complete the oral defense of the work as determined by the majority of the supervisory committee. The defense will be in the format of a graduate seminar. Final defense should take place no later than the end of the seventh year after admission with BS degree or the sixth year after admission with an MS degree unless an extension has been granted (see previous description for length of study). A student can fail the Final Oral Defense only twice. Following a successful defense of the dissertation, as deter-
mined by a majority vote of the student's supervisory committee, the
dissertation must be forwarded to the Dean of the College of Engineering
and the Dean of Graduate Studies for their approvals. All dissertations should
also conform to the University guidelines (see "Regulations for the
Thesis and Dissertation Preparation").
One final approved bound copy of the
dissertation should be delivered to the
Chairperson of the Department of Civil
and Environmental Engineering, one to
the advisor, and one to each member of
the supervisory committee. Additional
copies must be given to the Division of
Graduate Studies as specified by the
University guidelines.

Course Descriptions

Definition of Prefixes
CES—Civil Engineering Structures;
CEG—Engineering General, Civil;
CGN—Civil Engineering; CWR—Civil
Water Resources; EES—Environmental
Engineering Science; EGM—
Engineering, Mechanics; EGN—
Engineering, General; ENV—
Engineering, Environmental; TTE—
Transportation and Traffic Engineering

CCE 5035 Construction Engineering
Management (3). Course will cover
construction organization, planning and
implementation; impact and feasibility
studies; contractual subjects; liability
and performance; the responsibility of
owner, contractor and engineer.
Prerequisite: CCE 4001.

CCE 5505 Computer Integrated
Construction Engineering (3). Course
covers the discussion of available
software related to Construction
Engineering topics; knowledge based
expert systems and their relevance to
construction engineering planning and
management. Prerequisite: CCE 4001.

CEG 5065C Geotechnical Dynamics
(4). Analytical, field, and laboratory
techniques related to vibration
problems of foundations, wave
propagations, behavior of soils and
rocks, earth dams, shallow and deep
foundations. Earthquake engineering.
Prerequisite: CCE 4011.

CEG 6017 Theoretical Geotechnical
Mechanics (3). A continuum
mechanics interpretation of geotechnical
engineering: soil rheology: theories of
yielding: failure and plastic stability.
Analytical and numerical modeling of
non-linear properties. Prerequisites: CEG 4012C and MAP 2302. Suggested
corequisite: MAP 4401.

CEG 6105 Advanced Foundations
Engineering (3). Computer applica-
tions involving the numerical analysis
and design of complex soil-structure
interactions: highway and airfield
pavements, deep foundation groups and
NATM tunnelling techniques.
Prerequisite: CEG 4012.

CES 5106 Advanced Structural
Analysis (3). Extension of the
fundamental topics of structural
analysis with emphasis on energy methods
and methods best suited for non-
prismatic members. Prerequisite: CES
4101.

CES 5325 Design of Highway
Bridges (3). Structural analysis and
design for highway bridge systems
which includes design criteria, standards
of practice and AASHTO speci-
fications for designing super-structures
and substructure elements of various
types of bridges.
Prerequisites: CES 4605, CES 4702, CEG 4011.

CES 5565 Computer Applications in
Structures (3). Discussion and appli-
cation of available computer programs,
techniques and equipment for the
analysis, design and drafting of
structures. Graduate students have to do
a project.
Prerequisites: CES 4605 and
CES 4702.

CES 5606 Advanced Structural Steel
Design (3). Extension of the analysis
and design of structural elements and
connections for buildings, bridges, and
specialized structures utilizing struc-
tural steel.
Prerequisites: CES 4101,
CES 4605.

CES 5715 Prestressed Concrete
Design (3). The behavior of steel and
crushed concrete under sustained load. Analysis
and design of pre-tensioned and post-
tensioned reinforced concrete members,
and designing these members into the
integral structure.
Prerequisite: CES 4702.

CES 5800 Timber Design (3). The
analysis and design of modern wood
structures. Effect of plant origin and
physical structure of wood on its
mechanical strength; fasteners and their
significance in design.
Prerequisite: CES 4101.

CES 6209 Advanced Structural Dy-
namics in Civil Engineering (3).
Response of structures subjected to
arbitrary forms of deterministic dy-
namic loading; formulation of methods
to evaluate stresses and deflections due
to vibrations.
Prerequisite: EGM 5421.

CES 6706 Advanced Reinforced
Concrete Design (3). The analysis and
design of reinforced concrete and
masonry structural systems to
formalize the student's knowledge of
the behavior of structural components
into a final integrated structure.
Prerequisites: CES 4101, CES 4702,
CEG 4011.

CGN 5315 Civil Engineering Systems
(3). Application of systems analysis
techniques to large scale civil engi-
neering problems.
Prerequisite: ESI 3314 or equivalent.

CGN 5320 GIS Applications in Civil
and Environmental Engineering (3).
Introduction to the basics of geog-
graphic information systems, their
software and hardware, and their
applications in Civil and Environ-
mental Engineering, landscape
architecture, and other related fields.
Prerequisites: CGS 3420, SUR 3101C
and consent of instructor.

CGN 5930 Special Topics in Civil
Engineering (1-3). A course designed
to give groups of students an
opportunity to pursue special studies
not otherwise offered.
Prerequisite: Permission of the
instructor.

CGN 5935 Professional Engineering
(Civil) Review (4). Prepares qualified
candidates to take the P.E. written
examination in the field of Civil
Engineering. Reviews hydraulics, hy-
drology, water supply and wastewater,
geotechnics, structures, concrete and
steel design, etc.

CGN 6308 Intelligent Civil Engineer-
ing System (3). Application of artifi-
cial intelligence and other techniques to
build intelligent civil and environ-
mental engineering systems.
Develop planning, design, analysis, diagnosis, con-
trol, monitoring applications through
projects.
Prerequisite: Permission of the
instructor.

CGN 6325 Advanced GIS for Civil
and Environmental Engineering (3).
Advanced GIS concepts and techniques
for civil and environmental engineering
applications including LRS, temporal
GIS, 3D modeling, GIS data accuracy
and standards, spatial statistical analy-
sis, and others.
Prerequisite: CGN 5930 or permission of the
instructor.

CGN 6426 Advanced Computing in
Civil Engineering (3). Advanced
computer modeling and programming
techniques for civil and environmental
engineering applications including data
modeling, engineering database design,
object-oriented programming, and user interface design. Prerequisite: Permission of the instructor.

CGN 6905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

CGN 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

CGN 6916 Engineering Project (1-3). Independent research work culminating in a professional practice oriented report for the requirements of the nonthesis option of the M.S. degree. Prerequisite: Fifteen graduate credits and approved project plan.

CGN 6930 Advanced Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Civil Engineering not otherwise offered. Prerequisite: Permission of the instructor.

CGN 6939 Graduate Seminar (1-3). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Permission of graduate’s advisor.

CGN 6971 Thesis (1-6). The student following the thesis option of the Master’s degree will pursue research through this course. The research work will culminate with an acceptable thesis. Prerequisite: Permission of graduate’s thesis advisor.

CGN 7980 Dissertation (3-12). Doctoral research leading to Ph.D. civil engineering dissertation. Prerequisite: Permission of graduate committee.

CWR 5235 Open Channel Hydraulics (3). Theoretical treatment and application of hydraulics. Flow in open channels with special reference to varied flow, critical state hydraulic jump, and wave formation. Prerequisites: CWR 3103.

CWR 5251 Environmental Hydraulics (3). Application of fluid mechanics in the study of physical mixing in surface water bodies, dispersion of materials, and design of hydraulic systems. Prerequisite: Permission of the instructor.

CWR 6117 Statistical Hydrology (3). Quantitative determination of surface water run-off from a statistical approach. Prerequisites: CWR 3201 and CWR 3103.

CWR 6125 Groundwater Hydrology (3). Physical properties, equations of flow/mass transport, saturated/unsaturated zone, wells, pumping tests, quality/contamination control, analytical solutions, introduction to numerical models/computer codes. Prerequisite: Permission of the instructor.

CWR 6126 Advanced Groundwater Hydrology (3). Finite difference/finite element/boundary integral methods, transport and fate of chemically and biologically reacting solutes, tracer tests, hydrological approaches to remedial action and monitoring. Prerequisites: CWR 6125, or Permission of the instructor.

CWR 6236 Engineering Sediment Transport (3). Physical processes of sediment transport and deposition, land erosion, river morphology applied to engineering design, design of stable channels, scour, transport of sediment-attached pollutants.

EES 5135 Water Quality Indicators (3). Ecological studies of micro and macro organisms which are indicators of water quality. Emphasis of bioassays and early warning systems. Prerequisite: Permission of the instructor.

EES 5137 Biological Monitoring of Freshwater Ecosystems (3). The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisite: EES 5135 or Permission of the instructor.

EES 5506 Occupational Health (3). Effects, assessments, and control of physical and chemical factors in man’s environment, including chemical agents, electromagnetic radiation, temperature, humidity, pressures, illumination, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5605 Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 6506 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electromagnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6508 Occupational Health and Toxicology (3). A continuation of EES 6506. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 6506.

EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Moire. Prerequisites: EGM 3520, EGM 5653.

EGM 5351 Finite Element Methods in Mechanics (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydro-elasticity, etc. Prerequisite: EGM 3520.

EGM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of singles and multi-degree of freedom structures, including damping of lumped and distributed parameters systems. Graduate students have to do a project. Prerequisite: MAP 3302.

EGM 6425 Structural Reliability (3). Fundamentals of probability theory and stochastic processes; probabilistic modeling of structural loads and material properties; reliability analysis and design of structures; reliability-based design criteria. Prerequisite: STA 3033.

EGM 6533 Advanced Mechanics of Materials (3). Extension of the fundamental principles of engineering mechanics to include curved beams, warping, stability, etc. Prerequisites: CES 4101, MAP 3302.

EGM 6653 Theory of Elasticity (3). An advanced course covering the concepts of stress and strain tensors, indicia notation, transformation of stresses, compatibility equations, the stress function and the closed form solution of some important continuum
mechanics problems. Prerequisite: EGM 3520, MAP 3302.

EGM 6675 Advanced Plasticity (3). Formulation of the plastic stress-strain relationships; Prandtl-Reuss equations; yield criteria; Plane Plastic Flow and the Plane Slip Line Field Theory; limit analysis and basics of creep. Prerequisite: EGM 3520.

EGM 6736 Theory of Elastic Stability (3). Course will cover the beam-column problem; elastic and inelastic buckling of bars and frames; review of experimental work and design formulas; buckling of rings, curved bars and arches; bending and buckling of thin plates and thin shells. Prerequisites: EGM 3520.

EGM 6796 Theory of Plates and Shells (3). A course covering the concepts of thin plates with small deflections; thin plates with large deflections; thick plates; the Membrane Theory of Shells; and the General Theory of Cylindrical Shells. Prerequisites: EGM 3520.

EGN 5455 Numerical Methods in Engineering (3). Study of procedures that permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Graduate students have to do a project. Prerequisite: CES 4101.


ENV 5002C Fundamentals for Environmental Engineers (3). Laws and principles of the physical, chemical and biological phenomena that define and control the fate of chemical species in natural and engineered systems. Prerequisite: Permission of the instructor.

ENV 5007 Environmental Planning (3). Environmental laws and regulations, ecological principles, planning policies and processes, risk assessment, environmental impact due to growth, and environmental indicators.

ENV 5008 Appropriate Technology for Developing Countries (3). Appropriate environmental technologies and associated factors. Topics include water, air, soil and waste management. Low cost and energy alternatives are emphasized. Prerequisite: Permission of the instructor.

ENV 5027 Bioremediation Processes (3). Biotransformation of subsurface contaminants is gaining recognition as a viable treatment tool. This course provides students with quantitative methods required to design bioremediation systems. Project required. Prerequisite: Permission of the instructor.

ENV 5052 Bioremediation Processes (3). Study of the control and prevention of environmental-related diseases, both communicable and non-communicable, injuries, and other interactions of humans with the environment. Prerequisite: Permission of the instructor.

ENV 5065 Vector and Pest Control (3). Effects and management of public health vectors and communicable diseases. Prerequisite: ENV 5500 or Permission of the instructor.

ENV 5105 Air Quality Management (3). The air pollution problem, principal types, sources and dispersion of pollutants. Physical, economic, and legal aspects of control of atmospheric pollutants.

ENV 5116 Air Sampling Analysis (3). Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation. Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisite: ENV 5105 or ENV 4101.

ENV 5126 Particulate Air Pollution Control (3). Particulate pollution control devices, principles, design, costs. Cyclones, electrostatic precipitators, filters, bag houses, scrubbers, aerosol control devices

ENV 5334 Spill Response and Hazardous Materials Transport (3). Consequence analysis of accident scenarios covering the release and dispersion of toxic substances during transport into air, soil, or aquifer and fast response to spills and toxics recovery. Prerequisite: Permission of the instructor.

ENV 5335 Advanced Hazardous Waste Treatment Processes (3). Theory and principles of technologies for treatment and disposal of hazardous waste. Procedures for remedial investigations and feasibility studies. Prerequisite: Hazardous Waste Assessment and Remediation or permission of the instructor.

ENV 5356 Solid Wastes (3). In-depth study of the solid waste problem. Topics include municipal, industrial, and agricultural generation of wastes; municipal collection systems; methods of disposal, hazardous wastes, and energetic considerations in the recovery and recycle of wastes.

ENV 5406 Water Treatment Systems and Design (3). Course emphasizes water quality, quantities, treatment and distribution systems particularly as relates to municipal water supply. Requires laboratory project. Prerequisite: Permission of the instructor.

ENV 5512 Water and Wastewater Analysis (3). Relevance of the main quality parameters and their measurements by wet chemistry and analytical equipment. Includes BOD, COD, TOC, CO, TSS, VSS, alkalinity, acidity, PH hardness, ammonia, TNK, NO2, NO3, PO4, etc. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512L.

ENV 5512L Water and Wastewater Analysis Laboratory (1). Experiments are conducted which measure gross organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, pH, nitrate, nitrite, TNK, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512.

ENV 5517 Design of Wastewater Treatment Plants (3). Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of the instructor.

ENV 5519 Reactions in Environmental Engineering (3). Basis for applying microbial and physico-chemical principles to understand reactions occurring in natural and engineered systems including water/wastewater treatment processes. Includes laboratory project. Prerequisite: Permission of the instructor.

ENV 5559 Reactor Design (3). A theoretical and practical basis for reaction kinetics to understand multiphase reactions, analysis and design of batch and continuous flow reactors. Projects on analysis of reactor design and operating data.
ENV 5659 Regional Planning Engineering (3). Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting; economic base analysis. Prerequisite: Computer Programming or Permission of the instructor.

ENV 5666 Water Quality Management (3). Predicting and evaluating the effect of human activities on streams, lakes, estuaries, and ground waters; and the relation of human activities to water quality and protection of water resources. Prerequisite: Permission of the instructor.

ENV 5905 Independent Study (1-3). Individual research studies available to academically qualified students on graduate status.

ENV 5930 Special Topics in Environmental Engineering (1-3). Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

ENV 6045 Environmental Modeling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Prerequisite: Computer programming or permission of the instructor.

ENV 6056 Engineering Assessment of Metal Contaminants & Colloidal Transport (3). Kinetics of metal sorption reactions, colloidal transport, assessment of metal contaminants in soil. Prerequisite: Permission of the instructor.


ENV 6337 Hazardous Waste Site Assessment (3). Phase I and Phase II Investigations, Environmental Testing, Assessment, Monitoring Design. Prerequisite: ENV 5335 or permission of the instructor.

ENV 6435 Design of Drinking Water Treatment Plants (3). Drinking water treatment plant design, including unit operations from coagulation, sedimentation, filtration to disinfection, together with advanced treatment technologies.

ENV 6510 Advanced Unit Operations I (3). Theory and design of physical and chemical processes for treatment of contaminated media. Application of fluid mechanics, heat and mass transfer to design and operation of physical/chemical systems. Prerequisite: Permission of the instructor.

ENV 6511C Advanced Unit Operations II (3). Theory and design of biological processes for treatment of contaminated media. Application of biochemical reaction kinetics theory to design and operation of biological treatment systems. Prerequisite: Permission of the instructor.

ENV 6511L Advanced Unit Operations II Lab (1). Bench scale experiments for scaling-up and designing the following water and wastewater processes: sedimentation, coagulation, filtration, adsorption, oxidation and gas transfer. Prerequisite: ENV 6510. Corequisite: ENV 6511.

ENV 6516 Advanced Treatment Systems (3). Integration of unit operations into advanced treatment systems for contaminated media. Applications may include either conventional or innovative/emerging technologies. Prerequisite: Permission of the instructor.


ENV 6614 Environmental Risk Assessment (3). Characteristics of risk analysis, hazard identification, exposure assessment, consequence analysis, dose-response analysis. Prerequisite: Permission of the instructor.

ENV 6615 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Environmental impact assessment methodologies are emphasized.

ENV 6916 Engineering Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the M.S. degree-project option. Only three credits are applicable towards degree. Prerequisites: Completion of 20 graduate credits and approved proposal.

ENV 6934 Advanced Special Topics in Environmental Engineering (1-3). Specific aspects of Environmental Engineering requiring advanced engineering and research skills. A maximum of three credits are applicable towards degree. Prerequisite: Permission of the instructor.

ENV 6935 Graduate Environmental Seminar (1-3). The course consists of oral presentations made by students, guests, and faculty members on current topics and research activities in environmental systems.


TTE 5007 Transportation Systems in Developing Nations (3). Transportation systems in the Developing Nations. Role of international organizations, technology transfer/choices, orientation of transport networks, socio-economic and environmental impacts. Prerequisite: Graduate standing or Permission of the instructor.

TTE 5015 Applied Statistics in Traffic and Transportation (3). Civil and Environmental Engineering statistics methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prerequisite: Graduate standing.

TTE 5100 Transportation and Growth Management (3). Theory and principles of transportation and growth management, including the growth phenomena and regional impact planning. Design projects required. Prerequisite: TTE 4201.

TTE 5107 Highway Safety Analysis (3). Accident reconstruction, intersection analysis, highway safety standards, speed estimations from skidding, momentum/energy relationships, human factors. Prerequisites: STA 3033, TTE 4201.

TTE 5208 Advanced Highway Capacity Analysis (3). Parameters involved in calculating highway capacity and level of service on different highway and transportation facilities. Computer application will be also discussed. Prerequisite: TTE 4201.
TTE 5215 Urban Traffic Characteristics (3). Speed and volume studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: TTE 4201.

TTE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in transportation. Linear Programming, queuing theory, decision making techniques. Prerequisite: TTE 4201.

TTE 5607 Transportation Demand Analysis (3). Travel demand analysis and forecasting. Modeling techniques including trip generation and distribution, mode split, and trip assignment. Practical applications. Prerequisite: TTE 4201.

TTE 5805 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisite: SUR 3101C and TTE 4201.


TTE 5925C Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: TTE 4201.

TTE 5930 Transportation Seminar (1-3). Oral presentations made by students, guests, and faculty members on current topics and research activities in traffic and transportation engineering. Prerequisite: TTE 4201.

TTE 6257 Traffic Control Systems Design (3). Theory and principles of traffic control systems design, including both freeway and urban streets. Design projects required. Prerequisite: TTE 4201.

TTE 6506 Urban Mass Transit and Transportation Planning (3). Theories and principles of mass transit planning, include highway transit, rail transit and new transit modes. Design projects required. Prerequisite: TTE 5930.

TTE 6525 Bearing Capacity of Roads and Airfields (3). Advanced study of bearing capacity principles and theory; stress-strain behavior of pavements; constitutive modeling; and failure histories of pavement. Prerequisite: Permission of the instructor.

TTE 6526 Airport Planning and Design (3). Theory and principles of airport planning and design, include both general aviation and major commercial airports. Design projects required. Prerequisite: Permission of the instructor.

TTE 6528 Airport Terminal Design and Operations (3). Theory and practice of airport terminal design and operations, including passenger terminal complex, cargo terminal complex, and ground transportation. Design projects required. Prerequisite: Permission of the instructor.

TTE 6605 Planning and Design of Intermodal Facilities (3). Theory and practice of intermodal facility planning and design, including facility location, site design and access, and intermodal considerations. Design projects required. Prerequisite: TTE 5930 or permission of the instructor.

TTE 6650 Transportation and Land Development (3). Theory and principles of transportation and land development, including site planning, traffic analysis, and access and site circulation. Design projects required. Prerequisite: TTE 4201.

TTE 6755 Port Planning and Development (3). Theory and practice of port planning and development, including demand analysis, capacity evaluation, ground access, and port development strategy. Design projects required. Prerequisite: TTE 5930 or permission of the instructor.

TTE 6833 Superpave Asphalt Mixture Design and Analysis (3). Materials characterization and testing; elastic, visco-elastic and plastic behavior; fracture and fatigue, rutting and design of bituminous mixtures. Prerequisite: Permission of the instructor.

TTE 6834 Pavement Maintenance and Rehabilitation (3). Pavement performance assessment; criteria for pavement evaluation, measurement of pavement distress. Analysis and interpretation of pavement condition data. Formulation and evaluation of maintenance and rehabilitation alternative. Prerequisite: Permission of the instructor.

TTE 6837 Pavement Management Systems (3). Theory and principles of pavement management systems (PMS), including PMS at network and project level, PMS strategies, and PMS software packages used for decision making process. Prerequisites: TTE 5835 or permission of the instructor.
Electrical and Computer Engineering

Mak Eujadji, Associate Professor and Acting Chairperson
Jean Andrian, Associate Professor
Tadeus Babij, Professor
Armando Barreto, Associate Professor
Manuel Cerigo, Professor
Thomas Gilbar, Instructor and Undergraduate Advisor
Mark Hagemann, Associate Professor
Malcolm Heimer, Associate Professor
Grover Links, Associate Professor
Osama Mohamed, Professor
Sylvia Morgui, Assistant Professor
Gustavo Roig, Associate Dean, and Associate Professor
Pierre Schmidt, Professor
James Story, Professor and Associate Dean
Subbarao Wunnava, Professor and Associate Chairperson
Frank Urban, Associate Professor
Caroline Van Vliet, Professor
Kang Yen, Professor and Graduate Advisor

Master of Science in Electrical Engineering

The Department of Electrical Engineering offers both thesis and non-thesis options for the Master's Degree. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the five years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies of areas of interest. Multi-disciplinary programs such as Computer Engineering, Systems Engineering, and Biomedical Engineering are also available.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.

2. An applicant must have achieved a "B" average in upper level undergraduate work and a combined score of 1000 on the Graduate Record Examination (general test verbal and quantitative portions).

3. Applicants who have not satisfied the above will be evaluated by the departmental graduate admission committee for probationary or 10% waiver admission.

4. In addition to the above criteria, foreign students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

5. The GPA, GRE and TOEFL scores above are to be considered minimum requirements for admissions. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.

2. Certification by the Dean of the School that all requirements of the degree being sought have been completed.

3. A GPA of at least 3.0 has been earned for certain courses required by the program.

4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.

5. Completed the required semester hours of graduate level credit (not more than six graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).

6. Successful defense of an acceptable graduate thesis if required of the program.

7. Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

8. Complied with all University policies and regulations.

Thesis Option

A student must complete 30 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master's Thesis. The candidate's supervisory committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000-level course credit and a minimum of nine hours at the 5000-6000 level in Electrical Engineering. No more than six hours of Individual Work (EEL 6905) may be counted toward the degree.

Upon the successful completion of all course work, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research. The candidate should limit the presentation to 40 minutes, unless told differently by the advisor. The essence of the thesis should be presented in the same manner as that of a technical paper at a conference.

The student must submit the thesis to the examining committee and department chairperson at least ten days prior to the oral examination date. Upon passing the oral examination, and completion of any changes or additions, or both, as required by the committee, each member of the committee will sign a special front page available in the Department. Hardcover bound copies should be submitted to the student's advisor and to the Library. The student should consult with the advisor for approval of all course work prior to registration.

Distance Learning Option

Students who are working in industry and cannot attend classes on campus can apply to complete the Master's Program through the Distance Learning Program. This program differs from the on-campus program in that the courses can be taken through FEEDS and distance learning modes. In addition, the degree requirements differ from the on-campus program in two respects. First of all, the student can petition to be exempt from the thesis requirement, including the six credits it entails by substitution of industry research. Also, the candidate will be required to pass a comprehensive final examination. This exam may be administered at the work location and will be given by a committee selected by the department. The membership of this committee may
include faculty and engineers from industry. The exam is intended to test the candidate's general ability in the areas of study and it will be given near the end of the candidate’s final semester. A student who fails the exam may not attempt it again until one semester has elapsed or upon the completion of additional course work prescribed by the examining committee. The exam may be retaken only once.

Math Electives:
Select two courses with advisor approval.

- EEL 5171 Advanced System Theory 3
- EEL 5524 Statistical Communication Theory 3
- EEL 6020 Numerical Analysis of Electrical Devices 3
- MAA 4211 Advanced Calculus 3
- MAA 4402 Complex Variables 3
- MAD 3401 Numerical Analysis 3
- MAP 4401 Advanced Differential Equations 3
- MAP 5117 Mathematics and Statistics Modeling 3
- STA 5446 Probability Theory I 3
- STA 5447 Probability Theory II 3
- STA 5800 Stochastic Processes for Engineering 3

The above list may be changed or expanded by the committee. Remaining course work will be selected by the student and his advisor based on the student's career objectives.

Any course taken without the proper prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of “DR” or “DF”.

Students who are dismissed from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

Master of Science in Computer Engineering

The Department of Electrical and Computer Engineering offers both thesis and non-thesis options for the Master’s Degree in Computer Engineering. A student pursuing the Master's degree with or without thesis is required to pass a comprehensive oral or written examination and must complete all the required work during the five years immediately following the date of admission to the program. The program requires that students entering this program have a strong background in math through differential equations, physics with calculus, engineering science, electrical engineering and computer hardware and software. The degree program will provide training in electrical engineering, specializing in computer hardware design as well as in software engineering.

Admission Requirements
Admission requirements to Computer Engineering are the same as listed under the Electrical Engineering Master’s program.

Graduation Requirements
The degree will be conferred when the following conditions have been met:
1. Recommendation of the advisor and faculty of the Electrical and Computer Engineering Department.
2. Certification by the Dean of the College of Engineering that all requirements of the degree being sought have been completed.
3. An overall GPA of at least 3.0 has been achieved for all graduate course work.
4. The undergraduate deficiencies, if any existed, have been met, as additional courses toward the degree.
5. Completed the required number of credits in engineering and computer science. Not more than six graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions.
6. Completed at least 12 credits of 6000 level and nine credits of 5000 or 6000 level in electrical and computer engineering.
7. Completed the remaining nine credits from computer science or engineering. Six credits maximum of 4000 level may be taken outside the School of Engineering with advisor’s approval.
8. All courses and thesis topics must be approved by the student’s thesis advisor in consultation with the student’s thesis committee.
9. Completed an acceptable graduate thesis if required of the selected program.
10. Students must maintain an overall GPA of at least 3.0. No grade below "C" will be accepted in any course taken to satisfy the graduate program requirements. In the event that a student is placed on a probationary status, he or she must obtain a directed program of studies from his or her advisor and approved by the Dean prior to continuing further into the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

Thesis Option
A student must complete 30 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master’s Thesis. The candidate’s supervisory committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000-level course credit and a minimum of nine hours at the 5000-6000 level in Computer Engineering. No more than six hours of Individual Work (EEL 6905) may be counted toward the degree.

Upon the successful completion of all course work, including thesis work, and after the determination by the student’s advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research. The candidate should limit the presentation to 40 minutes, unless told differently by the advisor. The essence of the thesis should be presented in the same manner as that of a technical paper at a conference.

The student must submit the thesis to the examining committee and department chairperson at least ten days prior to the oral examination date. Upon passing the oral examination, and completion of any changes or additions, or both, as required by the committee, each member of the committee will sign a special front page available in the Department. Hardcover bound copies should be submitted to the student’s advisor and to the Library. The student should consult with the advisor for approval of all course work prior to registration.

Distance Learning Option
Students who are working in industry and cannot attend classes on campus can apply to complete the Master’s Program through the Distance Learning Program. This program differs from the on-campus program in that the courses can be taken through FEEDS and distance learning modes. In addition, the degree requirements differ from the on-campus program in two respects. First of all, the student can petition to be exempt from the thesis requirement, including the 6 credits it entails by substitution of industry research. Also, the candidate will be required to pass a comprehensive final examination. This exam may be administered at the work
location and will be given by a committee selected by the department. The membership of this committee may include faculty and engineers from industry. The exam is intended to test the candidate's general ability in the areas of study and it will be given near the end of the candidate's final semester. A student who fails the exam may not attempt it again until one semester has elapsed or upon the completion of additional course work prescribed by the examining committee. The exam may be retaken only once.

**Computer Engineering Courses**

- EEL 5718 Computer Communication
- EEL 5725 Network Engineering
- EEL 5741 Digital Systems Engineering I
- EEL 6176 Advanced Microprocessor Systems
- EEL 6167 VLSI Design
- EEL 6266 Digital Systems Engineering II
- EEL 5755 Data Communications Engineering
- EEL 6444 Optical Fiber Communications Systems
- EEL 6505 Digital Signal Processing
- EEL 6509 Digital Communications by Satellite
- EEL 6253 Computer Analysis of Power Systems
- EEL 6758 Engineering Design of Microprocessor Based Operating Systems
- EEL 6281 Real-Time DSP Implementations
- EEL 6870 Advanced in Neural Networks
- EEL 6870 Intelligent Computer Design
- EEL 6751 Wavelet Theory Applied to Signal Processing

**Electives Computer Science:** (6)

Courses may be selected by student and advisor from 4000, 5000, and 6000 level Computer Science course listings. The above lists may be changed or expanded by the supervisory committee.

**Doctor of Philosophy in Electrical Engineering**

**Admission Requirements**

The requirements for admission to the doctoral program in Electrical Engineering are:

1. Applicants having a Master's degree in Electrical Engineering from an accredited institution must satisfy the following requirements for admission to the doctoral program:
   a. GPA of at least 3.3/4.0 in the master's program
   b. GRE verbal plus quantitative of at least 1000 points
   c. Three letters of recommendation in the forms provided by the department
   d. TOEFL score of at least 550 points for non-English speaking natives.

2. Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

**Identification of Research Area**

Within 15 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no such professor can be found, the student will be dismissed from the Ph.D. program. Contact the Department for a list of the graduate faculty members and their research interests.

**Course Requirements**

At least 90 credit hours beyond the bachelor's degree, including a maximum of 30 credit hours of course work, with a minimum grade of "B" in each course, earned in a Master's degree in Electrical Engineering received at FIU or another accredited institution. The credit hours earned towards the Ph.D. program have the following requirements and restrictions:

1. At least 12 credits of Ph.D. Course Breadth Requirements.
2. At least 12 credits of course work at 6000 level of major field of interest.
3. Registration for Advanced Research is allowed only after successfully having passed the written comprehensive examination.
4. Registration for EEL 7980 (Research for Doctoral Dissertation) is allowed only after the student is admitted to candidacy. Twenty-four dissertation hours are required.
5. At least 30 credit hours of 5000 or 6000 level electrical engineering courses are required. EEL 5935, 6905, 6916, 6932, 6971, 6977, and 7980 are not considered course work for the purpose of this 30 credit hours requirement.

6. Fifty percent of the hours accumulated have to be at the 6000 and 7000 level (including EEL 7980).

**Residency Requirements**

The Ph.D. student must spend at least one academic year in full-time residency. Usually, this will be after being admitted to candidacy. To satisfy the residency requirement for a Ph.D. E.E. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months in residency at the University.

**Graduate Supervisory and Research Committee**

The student's Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and not later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Guidelines in the Department for more details on how to select the committee members.

**Ph.D. Course Breadth Requirements**

All potential Ph.D. candidates are required to take two two-course sequences for a total of 12 credits outside of their major area and receive a grade of "B" or better in each course. The appropriate areas of study are determined by the dissertation advisor. The student must submit to the Graduate Coordinator the sequences selected when he or she signs up for the written part of the Ph.D. E.E. Comprehensive Examination.

**Written Comprehensive Examination**

To be eligible for the written comprehensive examination, the student must have satisfied the Ph.D. course breadth requirements in his or her area of specialization and in two other areas. Those students admitted into the Ph.D. program with an MSEEE degree must take this exam before completion of 28 graduate credit hours of course work. Failure to do this is causation for dismissal from the Ph.D. program.

The student must pass all three areas of the examination. Failing one area implies failure of the entire examination. The exam must be retaken the next time it is offered. Failing a second time is causation for dismissal from the Ph.D. program.
Consult the Graduate Guidelines available in the department for details on examination procedures, dates, duration, application and grading criteria.

Oral Candidacy Examination
To take the oral part of the candidacy examination, a student must be in good academic standing at the University. The Research Committee must certify that the student is capable of completing all required course work for the degree by the end of the semester in which the candidacy examination is taken and must have passed the written comprehensive examination.

This exam is usually taken within one year after the satisfactory completion of the written comprehensive examination and consists on the presentation and defense of the student's written research proposal.

Admission to Candidacy
Candidacy status indicates that a doctoral student is ready to commence writing the dissertation. A student is admitted to candidacy upon successfully completing all required course work and passing the candidacy examination.

Oral Defense and Submission of Doctoral Dissertation
A dissertation is required of all candidates for the doctoral degree. A proposal must be submitted to the student's Research Committee for approval, following the general guidelines in the "Regulations for Thesis and Dissertation Preparation". A student must enroll for dissertation credits in the semester in which he or she expects to be admitted to candidacy, and must maintain continuous enrollment for not less than 3 credits of EEL 7980 every semester, including Summers, until the semester in which the doctoral degree is awarded. Upon completion of the dissertation, the degree candidate will submit to the Dean of Graduate Studies an application for dissertation defense signed by the student’s Advisory Committee with sufficient time to allow for publishing a notice in the monthly calendar of dissertation and theses defenses to invite members of the university community to observe the defense.

Following the successful defense of the dissertation, as determined by a majority vote of the student's research committee, the dissertation must be forwarded to the Dean of the College of Engineering and Design and the Dean of Graduate Studies for their approval.

All dissertations submitted in fulfillment of requirements for graduate degrees must conform to University guidelines (see “Regulations for Thesis and Dissertation Preparation”). One final, approved copy of the dissertation must be delivered to the Chairperson of the Department of Electrical & Computer Engineering. Library copies must conform to University guidelines, also published in “Regulations for Thesis and Dissertation Preparation”.

Financial Aid
Consult the Department for information on research and teaching assistantships available for doctoral students.

Course Descriptions
Definition of Prefixes
EEL - Engineering: Electrical

EEL 5071 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductors in tissue and the nervous system as an electrical network. Prerequisite: ELE 4020 or Permission of the instructor. (F)

EEL 5085 Biomedical Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or Permission of the instructor. (S)

EEL 5145 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140 or Permission of the instructor. (S, alternating years).

EEL 5171 Advanced Systems Theory (3). State-space representations for continuous and discrete-time systems, controllability and observability, pole-zero allocation, Lyapunov stability theorem, state observers. Prerequisites: EEL 3657 and graduate level or advanced senior standing or Permission of the instructor. (S)

EEL 5270 Electrical Transients in Power Systems (3). Traveling waves on transmission and multi-conductor systems, successive reflections, distributed parameter systems, transients on integrated power systems. Prereq-
analysis of electrical devices using digital computers. Prerequisite: EEL 4410 or Permission of the instructor. (S)

EEL 5500 Digital Communication Systems I (3). This course will consider most important aspects of digital communication systems such as noise related subjects, random signals, linear systems, and baseband digital modulation and multiplexing. Prerequisites: EEL 3135, EEL 3514, EEL 3112 or Permission of the instructor. (SS)

EEL 5501 Digital Communication Systems II (3). This course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisite: EEL 5500 or Permission of the instructor. (F)

EEL 5524 Statistical Communication Theory (3). Noise, random processes, correlation, spectral analysis in the analysis and design of communication systems. Optimization techniques; minimum mean square error. Prerequisite: EEL 3514. (SS, alternating years)

EEL 5563 Introduction to Optical Fibers (3). Use of fiber optics as a communication medium. Principles of fiber optics; mode theory; transmitters, modulators, sensors, detectors and demodulators; fiber data links. Prerequisites: EEL 3514, EEL 4314 and EEL 4410 or Permission of the instructor. (F, alternating years)


EEL 5718 Computer-Communication Network Engineering (3). System engineering synthesis, analysis, and evaluation of computer-communication networks. Network design, routing and flow control, telecommunication traffic engineering, transmission, switching, etc. Prerequisite: EEL 5501 or Permission of the instructor. (SS)

EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4709 or Permission of the instructor. (F)

EEL 5725 Digital Systems Engineering I (3). This course involves systematic studies of digital instrumentation, digital control, digital communication systems concepts and case studies. Prerequisites: EEL 4304, EEL 4746 or equivalent or Permission of the instructor. (F)

EEL 5741 Advanced Microprocessor Systems (3). Interfacing of various microprocessors together. Concepts of master-slave systems, virtual memory and I/O control techniques. Digital system evaluation and optimization. Prerequisite: EEL 4746 or Permission of the instructor. (SS, alternating years)

EEL 5757 Real-Time Digital Signal Processing Implementations (3). Techniques for the implementation of Digital Signal Processing (DSP) algorithms in dedicated processors, for assessing real-time performance of audio, control, and communication systems. Prerequisite: EEL 3135 or equivalent.

EEL 5810 Neural Networks-Algorithms and Applications (3). Various artificial neural networks and their training algorithms will be introduced. Their applications to electrical and computer engineering fields will be also covered. Prerequisite: MAC 3312. (SS)


EEL 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of instructor.

EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and diffusion eddy current type field problems and associated phenomena in electrical devices. Emphasis on implementation and applications to practical problems. Prerequisites: EEL 4213, MAP 3302 or equivalent or Permission of the instructor. (SS)

EEL 6075 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: EEL 4202 and EEL 6505 or Permission of the instructor. (F)

EEL 6076 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075 or Permission of the instructor. (S)

EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop eqs and node pair eqs., state space networks, computer solutions. Prerequisite: EEL 3112 and FORTRAN or Permission of the instructor. (S, every third year)

EEL 6167 VLSI Design (3). Study of VLSI Design concepts in MOS/CMOS environment, CAD techniques, VLSI array processors and wavefront array processors, and implementation of array processors. Prerequisites: EEL 5741, EEL 4314. (SS, alternating years)

EEL 6216 Application of Intelligent Systems to Power System Operations (3). Power system security assessment using intelligence systems techniques such as pattern recognition, expert systems, and neural networks. Class projects include applying IS to load forecasting, alarm processing. Prerequisites: EEL 4214, EEL 6273. (SS, alternating years)

EEL 6219 Electric Power Quality (3). Modeling of networks under non-sinusoidal conditions, loads which may cause power quality problems, analysis of harmonics, flickers, impulses, standards, power quality improvement methods. Prerequisite: EEL 4213 or permission of the instructor.

EEL 6235 Motor Drives Control (3). Switched, resonant and bidirectional power supplies, DC motors: single, three phase and chopper drives. AC motors: voltage, current and frequency control. Closed loop control. Prerequ-
EEL 6253 Computer Analysis of Power Systems (3). Power systems analysis and design by computer solutions. Interactive solutions, power flow, optimum solutions. Dynamic solutions and stability. Prerequisite: EEL 4215 or Permission of the instructor. (F, every third year)

EEL 6254 Power Systems Reliability (3). Expansion planning, load forecasting, reliability and availability application to generation planning, bulk power supply systems, generation system operation and production costing analysis. Prerequisite: EEL 4215 or Permission of the instructor. (S, every third year)

EEL 6261 Power Systems Engineering (3). Steady-state analysis, fault studies, load flow, dynamic and transient performance, on-line control, practical applications. Prerequisite: EEL 4215 or Permission of the instructor. (SS, every third year)

EEL 6273 Power System Stability and Control (3). Direct methods for system stability, computer analysis of large scale models, Lyapunov stability, longer term stability, security analysis, MW-frequency control, isolated and multiple area control. Prerequisites: EEL 4215 and FORTRAN or Permission of the instructor. (S)

EEL 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics network. Advanced analysis, modeling and computer simulation of op amps. Analog design techniques and practical examples are covered. Prerequisite: EEL 4314 or Permission of the instructor. (F, alternating years)

EEL 6312 Advanced Electronic Systems II (3). Study of linear properties of electronic systems and design of fault tolerant systems using A/D and D/A and control algorithms. Prerequisite: EEL 6311 or Permission of the instructor. (S, alternating years)

EEL 6315 Advanced Solid State Electronics (3). IC technologies, properties and fabrication concepts. Bipolar, MOS, I2L, CCD, bubble technologies. Ion implantation characteristics. Lithography techniques. Prerequisite: EEL 3396, EEL 4304 or Permission of the instructor. (SS, every third year)

EEL 6322 Thin Film Engineering (3). Thin films used in microelectronics and optoelectronics; deposition methods; evolution of film microstructure; film growth modeling; introduction to film analysis. Prerequisite: EEL 3396. (SS, alternating years)

EEL 6335 Electrical Transport in Semiconductors I (3). This course focuses on carrier transport fundamentals, beginning at the microscopic level and progressing to the macroscopic effects relevant to semiconductor devices. Prerequisites: EEL 5352, PHY 4604. (F, alternating years)

EEL 6337 Electrical Transport in Semiconductors II (3). This course focuses on quantum phenomena occurring in carrier transport in modern small-size semiconductor devices. Prerequisite: EEL 6335 (Note: PHY 4604 is a prerequisite for EEL 6335).

EEL 6395 Applied Superconductivity (3). Covers the basic physical properties of superconductors. Superconducting devices: squids, memory & logic elements. Emphasis is placed on applications of superconductors. Prerequisites: EEL 3396 and EEL 4410. Corequisite: EEL 6315, EEL 6397 or Permission of the instructor. (S)

EEL 6397 Semiconductor Device Theory (3). Device physics and modeling of GaAs FETS. GaAs analog and digital integrated circuits. Modulation doped field effect transistors. Heterojunction bipolar transistor theory. Prerequisite: EEL 3396. (S)

EEL 6399C Electronic Properties of Materials (3). Properties of materials from which electronic components and structures are fabricated, electrical conduction in metals, semiconductors and insulators; thermal; magnetic; optical. Prerequisite: EEL 3396. (F, alternating years)

EEL 6443 Electro-Optical Devices and Systems (3). Introduction to optical devices and systems such as solid state laser systems, their applications in industry. Also holography, linear and non-linear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEL 4314. Corequisite: EEL 5563 or Permission of the instructor. (S, every third year)

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic wave guide, optical device sources, photo-detector, receiver and transmitter designs. Prerequisite: EEL 5501 or Permission of the instructor. (S, every third year)

EEL 6463 Antenna Theory and Design (3). Radiation patterns of dipoles and loops, array analysis and synthesis, self-impedance and mutual impedance, frequency independent antennas and antenna miniaturization, and reflectors and lens antenna. Prerequisite: EEL 4410 (S, alternating years)

EEL 6505C Digital Signal Processing (3). Treatment of digital signal and system characteristics: Z transforms and FFT theory. Real time and correlation functions. Multidimensional signal processing and digital filtering. Prerequisites: EEL 4510, EEL 4314, EEL 5653 or Permission of the instructor. (F)

EEL 6509 Digital Communications by Satellite (3). This course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisite: EEL 5501 or Permission of the instructor. (S)

EEL 6572 Pictorial Information Systems Design (3). Picture input device design, pictorial information systems hardware, picture processor design, picture storage system design, pictorial database system design, picture communication interface design, and engineering applications. Prerequisites: EEL 4709 or CDA 4400. (SS)

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDLC. Real time switching techniques. Microprocessor based network topologies. Busing schemes such as VME, MULTIB, RS232. Prerequisites: EEL 4746 and EEL 4314 or Permission of the instructor. (F)

EEL 6614 Modern Control Theory I (3). Graduate level treatment of modern control systems. Optimal control of feedback systems. Performance measures, Pontryagin's minimum principle, dynamic programming, numerical techniques. Prerequisite: EEL 5171 or Permission of the instructor. (F, alternating years)

EEL 6615 Modern Control Theory II (3). Graduate level course in stochastic control. Stochastic processes, linear estimation, Kalman filtering techniques in state estimation. Design of feedback
control in the presence of noise. Prerequisite: EEL 6614 or Permission of the instructor. (S, alternating years)

EEL 6673 Identification Theory (3). System modeling, off-line methods, on-line methods, order and structure determination, diagnostic tests and model validation. Prerequisite: EEL 5171. (F, alternating years)

EEL 6726 Digital Systems Engineering II (3). Analysis and design of time shared digital electronic systems. Artificial intelligence and automation. Robotics and remote control systems. Advanced digital instrumentation and testing. Prerequisite: EEL 5725 or Permission of the instructor. (S, every third year)

EEL 6751 Wavelet Theory Applied to Signal Processing (3). Application of wavelet theory to transient and non-stationary signal processing, compression and noise reduction of signals, singularity and edge detection, and time-frequency analysis. Prerequisite: EEL 3135 or equivalent.

EEL 6758 Engineering Design of Microprocessor Based Operating Systems (3). Hardware microprocessor based systems, BIOS (basic input and output), Kernel partitions, memory, stack organization and physical design of operating systems. Prerequisites: EEL 4709 and EEL 4746 or Permission of the instructor. (S, every third year)

EEL 6812 Advances in Neural Networks (3). Latest concepts in artificial neural networks research and newly developed applications. Implementation, convergence in learning algorithms, accuracy refinement, and optimal structure of neural networks. Engineering applications. Prerequisite: EEL 5810. (F, alternating years)

EEL 6821 Computer Vision (3). Image formation and image properties, Radiance and irradiance, introduction to Brain Topography, Color Vision, visual machinery of the brain, statistical pattern classification and decision functions, the eigensystem and its computational aspects, stereo vision, motion vision, size and orientation independence. Prerequisite: EEL 5820. (S)

EEL 6870 Intelligent Computer Design (3). Fuzzy logic hardware, self-testing computer design, easily testable computer design, fail safe computer design, fuzzy neural networks, design implementation, applications of fuzzy neural networks, and real time applications. Prerequisite: EEL 4709. (F, alternating years)

EEL 6905 Individual Work (1-4). Special problems or projects selected by the students and a faculty member. The student conducts the project with a minimum of supervision. Consent of Department Chairperson and Faculty Advisor.

EEL 6916 Graduate Project (1-3). Independent research work culminating in a professional practice-oriented report for the requirements of the non-thesis option of the M.S. degree project. Prerequisites: Fifteen graduate credits and approved project plan.

EEL 6931 Special Topics in Electrical and Computer Engineering (1-3). Course covers advanced topics not in existing graduate courses in electrical and computer engineering. Prerequisite: Permission of the instructor.

EEL 6932 Graduate Seminar (1). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Consent of graduate advisor.

EEL 6971 Research Master's Thesis (1-6). The student, following the option of the Master's Degree with thesis, should work for his/her thesis through this course. Prerequisite: Graduate standing.

EEL 6977 Extended Thesis Research (0). For. Graduate research students who have completed their sequence of thesis credits, but must register for a course to remain on graduate student status.

EEL 7979 Advanced Research (1-6). Advanced research credits under the supervision of the dissertation advisor. Prerequisite: Completion of the written comprehensive examination.

EEL 7980 Dissertation (3-12). Doctoral research leading to Ph.D. Electrical Engineering Dissertation. Prerequisite: Permission of graduate committee.
Industrial and Systems Engineering

Shih-Ming Lee, Associate Professor, Chairperson
Martha Centeno, Associate Professor
Chin-Sheng Chen, Professor
Joe Chow, Associate Professor
Ronald Giachetti, Assistant Professor
Khoklat Kengsooky, Associate Professor
Richard Linn, Associate Professor
Sergio Martinez, Instructor
Marc Resnick, Associate Professor

Master of Science in Industrial Engineering

Marc Resnick, Coordinator

The Master of Science program in Industrial Engineering emphasizes research, as well as course work, and the graduate degree is intended to prepare students for the professional practice of Industrial Engineering.

Admission requirements

The student must meet all University graduate admission requirements. In addition, he or she must also:

1. Have a BS in engineering from an accredited institution or must take prerequisites as required to remedy deficiencies.
2. Must have a “B” average in the last 60 hours of undergraduate work and have a combined score of 1000 on the Graduate Record Examination (verbal and quantitative combined).
3. Applicants meeting only one of the two requirements in no. 2 will be evaluated by the department admissions committee for probationary admissions. Industrial experience and special research will be considered.
4. Foreign students must take the test of English as a foreign language (TOEFL) and obtain a score of 550 or better.
5. Waiver under the 10% rule may be requested if the minimum GPA or GRE are not met. Students admitted under the 10% exception rule will be placed on probation and will be evaluated at the end of 9 credit hours for continuation.
6. Students with degrees from disciplines other than engineering will be required to take additional courses as needed in math, natural sciences and basic engineering.

Available Areas of Concentration

Human Factors/Ergonomics
Integrated Manufacturing
Operations Research/Systems Engineering

Course requirements

Each MSIE student is required to take a minimum of 31 graduate credit hours to complete the degree program. The one credit hour Graduate Seminar (EIN 6932) is a required course to all MSIE students. Each student is required to select a concentration area as part of the seminar course. Prerequisite and graduate core courses for each concentration area are specified in the following sections. Elective graduate courses are selected by the student with the approval of the thesis advisory committee to support thesis work.

Human Factors/Ergonomics Area

Human Factors is concerned with the design of jobs, consumer products, computer interfaces, machines, machine operations, and work environments, so that they are fully compatible with human characteristics, capacities, limitations and idiosyncrasies. Human Factors practitioners, operating within industrial, commercial, governmental and health organizations are called upon to apply existing human performance knowledge to the design or modification of equipment, and also to generate new experimental data required for equipment design. Accordingly, the MSIE concentration in Human Factors emphasizes both existing content areas and detailed experimental research methodology. Students in this area must have the following prerequisite courses:

EGN 3123 CAD or equivalent
EIN 3235 Evaluation of Engineering Data or equivalent
EGN 3311 Statics or equivalent
EIN 4243 Human Factors
EIN 4314 Work Design and Ergonomics

and must take the following core courses:

EIN 6932 Graduate Seminar
EIN 6348 Advanced Ergonomics
EIN 6319 Advanced Work Design
EIN 5249 Occupational Biomechanics
EIN 6971 Master’s Thesis

Elective graduate courses

Integrated Manufacturing Area

The Integrated Manufacturing area reflects a broad interpretation of the role of a manufacturing engineer. This concentration is developed to include product and process design, production planning and scheduling, material flows control, product quality, facilities planning, materials handling, material selection, and manufacturing processes. It emphasizes manufacturing automation, information modeling, and computer-based integration of the above functions in design, planning, and control of modern manufacturing systems. Students in this area must have the following prerequisite courses:

EIN 3390 Manufacturing Processes
EGN 3123 CAD
ESI 3314 Generic Models I or equivalent
EGN 3365 Materials in Engineering and must take the following core courses:

EIN 6932 Graduate Seminar
EIN 6398 Advanced Manufacturing Process Engineering
EIN 6392 Product Design for Manufacturing Automation
ESI 6316 Applications of OR in Manufacturing
EIN 6971 Master’s Thesis

Elective graduate courses

Operations Research/Systems Engineering Area

Operations Research deals with the development and application of quantitative techniques to model, analyze, and design complex systems. Students in this area must have the following prerequisite courses:

EIN 3235 Evaluation of Engineering Data or equivalent
EIN 3354 Engineering Economy
ESI 3523 Simulation Models of Industrial Systems or equivalent

and must take the following core courses:

EIN 6932 Graduate Seminar
ESI 6316 Applications of OR in Manufacturing
STA 6246 Data Analysis I
ESI 6524 Applied Industrial Systems Simulation
EIN 6971 Master’s Thesis

Elective graduate courses
Manufacturing Engineering Track
Chin-Sheng Chen, Program Coordinator

The track is tailored for engineers in the manufacturing industry or those entering the industry. It is an interdisciplinary and terminal degree program with emphasis on practices and hands-on experience. Students will be exposed to a full range of manufacturing engineering functions and will be equipped with the knowledge and skills required to design, operate, and improve manufacturing systems of today and tomorrow.

Admission requirements
The student must meet all University graduate admission requirements. In addition, he or she must have:

1) a Bachelor of Science degree in engineering or a closely related field from an accredited institution,
2) a minimum of "B" average in all upper level course work and
3) a minimum score of 1000 on the Graduate Record Examination (verbal and quantitative combined).

Applicants who meet all other criteria, except for the requirement 2) or 3) above, may be evaluated for provisional admission. Applicants may also be evaluated for admission under the BOR 10% policy waiver. In addition to the above criteria, foreign students whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

Program requirements
The Manufacturing Engineering Program requires 28 credit hours of course work plus a 3 credit Master's Project (EGN 6971). The program of study must include EIN 6932 Graduate Seminar (1 credit hour), EGN 6437 Manufacturing Systems Design (3 credit hours) and 24 additional credit hours of graduate-level courses. The program of study for each student will be tailored to fit the student's project advisory committee. However, it must consist of at least one course taken from each of the following subject areas:

1) product design,
2) industrial materials and manufacturing processes,
3) production planning and control,
4) quality,
5) manufacturing operations management, and
6) manufacturing systems techniques.

By taking one course from each of the above subject areas, the student is expected to have the breadth of exposure to all manufacturing engineering activities and to acquire set of solution techniques for modeling, evaluation, implementation, and operations of a manufacturing system. The remaining two courses are elective and reserved for the student to build an in-depth understanding of a selected engineering subject area.

Listings of recommended courses
The courses listed below for each of the six subject areas represent recommended courses only. The student may elect other non-listed graduate courses within each subject area to meet the program requirements. However, he/she must first consult with the academic advisor concerning deviations from these recommendations. Any elective course must fulfill the purpose of the Manufacturing Engineering Program, which is designed to ensure a breadth of manufacturing knowledge as well as an in-depth exposure to the fundamentals of manufacturing engineering in a selected area.

**Product Design**
- EIN 6392 Product Design for Manufacturability and Automation
- EGN 5435 Product Modeling

**Industrial Materials and Manufacturing Process**
- EGN 5367 Industrial Materials
- EIN 6398 Advanced Manufacturing Process Engineering
- EIN 6436 Manufacturing Process Design

**Production Planning and Control**
- EIN 6336 Advanced Production Planning & Scheduling

**Quality**
- EIN 5332 Quality Engineering
- STA 5676 Reliability Engineering

**Manufacturing Operations Management**
- ACG 6026 Accounting for Managers
- EIN 5322 Engineering Management
- EIN 5359 Industrial Financial Decisions
- FIN 6428 Corporate Finance
- MAN 6245 Organizational Behavior
- MAN 6805 Entrepreneurship

**Manufacturing Systems Techniques**
- EIN 6117 Advanced Industrial Information Systems
- ESI 6316 Application of OR in Manufacturing
- ESI 6524 Applied Industrial Systems Simulation

Engineering Management
Gordon R. Hopkins, Director
Sushil K. Gupta, Associate Director
Shih-Ming Lee, Program Coordinator

Master of Science in Engineering Management

The Master of Science program in Engineering Management (MSEM) develops future leaders of business and industry for a technological environment. The program blends a carefully chosen mix of engineering courses offered by the College of Engineering and business courses offered by the College of Business Administration. In addition, the Program benefits from the experience of practicing managers who address MSEM students as guest speakers.

The MSEM program is designed to offer one of the most appropriate management degrees for those individuals who would like to advance to managerial positions and wish to acquire the necessary knowledge and skills for success. The MSEM curriculum integrates theoretical concepts, case studies and computer software in a simulated business environment where students are challenged to make decisions that have organizational wide impact. Students in the program will have the opportunity to use and learn contemporary software and specialize in a chosen filed of study.

**Admission Policies**

The student must meet all University graduate admission requirements. In addition:

1. Prospective students are expected to meet all admission requirements of the University's graduate school.
2. The applicant to the MSEM program must have a bachelor's degree in engineering or a closely related field from an accredited institution.
3. The admisions committee, in making the admission decision, will consider the undergraduate GPA in upper division coursework; score on Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT); and the work experience at the executive level.
4. In addition to the above criteria, foreign students whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

The GRE/GMAT, TOEFL, and GPA are considered as minimum requirements for admissions. Students backgrounds shall be analyzed to determine if there is a need for remedial courses in addition to the required curriculum. Students are also expected to comply with all course prerequisites.

Degree Requirements
The basic program will consist of 36 credit hours as follows: A core of 12 credit hours of the engineering management and 12 credit hours of the business, 9 credit hours of advised electives in any of the engineering disciplines, and an engineering management capstone project.

Engineering Management Core Courses
Students in the proposed program are required to take four courses (12 credit hours) from the following subjects. These courses serve as the foundation for the future engineering/technology managers.

- **EIN 5322** Engineering Management 3
- **EIN 5226** Total Quality Management For Engineers 3
- **EIN 6117** Advanced Industrial Information Systems 3
- **ESI 6455** Advanced Engineering Project Management 3

Business Core Courses
Students in the program are required to take four courses (12 credit hours) from accounting, finance, organizational behavior, and marketing (one from each subject area). These courses prepare engineers for business practices.

- **ACG 6026** Accounting for Managers 3
- **ACG 6175** Financial Reporting and Analysis 3
- **FIN 6428** Corporate Finance 3
- **FIN 6455** Financial Modeling and Forecasting 3
- **MAN 6245** Organizational Behavior 3
- **MAN 6204** Organization Management Theory 3
- **MAR 6805** Marketing Management 3
- **MAR 6816** Corporate Simulation 3
- **MAR 6158** International Marketing 3

Engineering Electives
Students in the program are required to take three courses (9 credit hours) from engineering subjects of interest, for example, 'telecommunications'. These engineering elective courses will broaden and deepen the student's understanding of technology development. The student's advisory committee will select the elective courses.

Engineering Management Capstone Project
The program is structured as a non-thesis program. However, students in the program are required to conduct an industrial project [EIN 6950] (3 credit hours) to complete the degree program. The Engineering Management project covers contemporary topics and trends in technology development.

Grades and Credits
Students are required to maintain a GPA of 3.0. Courses with a grade below 'C' will not be counted toward the Master of Science degree in Engineering Management.

Transfer Credit
The students may receive permission to transfer up to a maximum of six semester credits provided that: (1) the courses were taken at the graduate level at an accredited college or university; (2) with a grade of 'B' or better; (3) the courses were judged relevant by the student's advisory committee; (4) the credits were not used toward another degree; and (5) the credits were completed within seven years immediately preceding the awarding of the degree. Credits are transferable until the student has earned 12 semester hours in the Engineering Management program.

Time Limit
All works applicable to the Master of Science degree in Engineering Management, including transfer credits, must be completed within seven years immediately preceding the awarding of the degree.

*Note:* Please see the section of the College of Business Administration for a description of the Business core courses.

Course Description
Description of Prefixes
EIN-Engineering, General EIN-Engineering, Industrial; ESI-Engineering Systems Industrial.

**Course Description**
- **EGN 5435** Product Modeling (3). Life cycle product data, geometry and form features, product information models and modeling techniques, product modeling systems, and product data standards. Prerequisites: EGN 3123 or equivalent.
- **EGN 6436** Manufacturing Process Design (3). Resources modeling, process plan modeling, and planning methodologies for process selection, operations selection, machining parameters selection, setup planning, and inspection planning. Prerequisites: EGN 5842.
- **EGN 6437** Manufacturing Systems Design (3). System design for production and process planning, resource management, material handling, process control, and quality control. Prerequisite: Permission of the instructor.
- **EGN 6438** Manufacturing Engineering (3). Manufacturing functions, product and process design, material processing and control, systems design and operations, resource and technology management, and analytical tools for manufacturing. Prerequisites: EIN 3390 or equivalent. (F)
- **EGN 6971** Master's Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Manufacturing Engineering program.
- **EIN 5106** Regulatory Aspects of Engineering (3). A survey of the legal and regulatory requirements encountered by engineers. Included will be OSH Act, NIOSH, ADA, EEOC, Worker's Compensation and Product Liability. Prerequisite: Senior standing.
- **EIN 5226** Total Quality Management for Engineers (3). Fundamentals of TQM and its historical development. Integration of QC and management tools, QFD, benchmarking, experimental design for scientific management. (F,S)
EIN 5249 Occupational Biomechanics (3). Study of the theoretical fundamentals for the mechanics of the body. The link system of the body and kinematic aspects of body movement including applications of biomechanics to work systems. (S)

EIN 5322 Engineering Management (3). Organization of engineering systems including production and service organizations. Inputs of human skills, capital, technology, and managerial activities to produce useful products and services. (F,S)

EIN 5332 Quality Engineering (3). This course examines quality control from an engineering standpoint. It covers ways to meet the challenge of designing high-quality products and processes at low cost. Prerequisite: EIN 3331 or equivalent. (S)

EIN 5359 Industrial Financial Decisions (3). The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods. Prerequisite: EIN 3354. (SS)

EIN 5367 Design of Production Systems (3). The design of an industrial enterprise including feasibility, plant layout, equipment specifications, auxiliary services, economics and scheduling. Prerequisite: EIN 3365. (SS)

EIN 5605 Robotic Assembly Cell (3). Concepts of robot manipulation and sensing, part design for robotic assembly, planning manipulator trajectories, machine vision, robot programming language, cell control, and material transfer. Prerequisite: EIN 3600. (S)

EIN 6117 Advanced Industrial Information Systems (3). Review of the fundamental and theoretical foundation of industrial information systems. Application of the system design process and information system concepts to develop integrated engineering systems. (S,SS)

EIN 6248 Advanced Ergonomics (3). Analysis of human factors in the design of engineering systems, with emphasis on the interface of man-machine-media and human limitations in relation to equipment design and work environments. Prerequisites: EIN 4314, EIN 4243, and PCB 3702 or equivalent. (F)

EIN 6258 Ergonomic Design of Aerospace Systems (3). Application of ergonomic criteria in design of civil and military aircrafts cockpits and control systems. Ergonomic consideration in design of outer space vehicles, stations, and systems. Prerequisite: EIN 6248.

EIN 6319 Advanced Work Design (3). Study of the various human psychologic systems and their responses as it relates to occupational work including endurance, fatigue, recovery, and energy cost of work. Prerequisites: EIN 6248. (S)

EIN 6336C Advanced Production Planning and Control (3). Analytical and algorithmic planning methodologies, planning and scheduling technologies, sequencing rules, control strategies, and line balancing methods. Prerequisite: EIN 4334.

EIN 6345 Inventory Control Systems (3). Design of non-traditional inventory control systems. Development of several inventory system models. Exploration of methods of collecting appropriate demand and cost data for effective systems analysis. Prerequisite: ESI 3314.

EIN 6357 Advanced Engineering Economy (3). Review of engineering economy and the evaluation of advanced manufacturing systems. Evaluation of alternative capital investments considering income taxes, depreciation, inflation, risk and uncertainty. Prerequisite: EIN 3354. (SS)

EIN 6392 Product Design for Manufacturability and Automation (3). Overview and integration of the design-material-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395. (S)

EIN 6393 Design and Implementation of Discrete Manufacturing Systems (3). Methodology and techniques for design, planning and implementation of discrete production systems including process/machine selections, material handling and inspection technologies, cell control, etc. Prerequisites: Graduate or seniors with EIN 3365, EIN 3390, and ESI 3523 or equivalent.

EIN 6397 Advanced Topics in Manufacturing Automation (3). Overview of manufacturing systems; evolution of controls and AI, material handling, automation clamps, jigs, and fixtures, cutting sensors, machine vision and autonomous manufacturing. Prerequisites: EIN 6392 and EIN 6398.

EIN 6398 Advanced Manufacturing Process Engineering (3). Non-traditional manufacturing processes. Tool selection, jig and fixture design, material handling, tolerance and dimensioning. Product assembly engineering economics, and manufacturing process planning. Prerequisite: EIN 3390. (F)

EIN 6603 Applied AI/Expert Systems in Industrial Engineering (3). Application of artificial intelligence and expert systems as engineering tools. Exploring the use of PCs and symbolic machine with various AI/Expert Systems software. Several projects are required. Prerequisites: CAP 5680.

EIN 6606 Robotic Systems (3). Basic robotic system principles, functional requirements of robotic systems, simulation of system preliminary design, and physical experimentation of robotic systems.

EIN 6908 Independent Study (1-3). Individual supervised study by a faculty. A study plan and a final report are work required. Prerequisite: Departmental approval. (F,S,SS)

EIN 6932 Graduate Seminar (1). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings and discussions among participants. (F,S)

EIN 6936 Design of Industrial Engineering Systems (3). Overview of systems theories. Systems design process including: Problem definition, analysis, generation of alternatives, systems evaluation, selection of preferred system, and implementation. Prerequisites: EIN 6345, ESI 6316, and ESI 6524.

EIN 6950 Engineering Management Masters Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Engineering Management program. Prerequisite: Permission for the advisor.

EIN 6971 Master's Thesis (1-3). The students following the thesis option should work on his/her thesis through this course. (F,S,SS)
ESI 6316 Applications of OR in Manufacturing (3). Overview of OR techniques. Manufacturing system and product selection. Shop loading, resource allocation, production scheduling, job sequencing, and plant layout problems. System performance evaluation. Prerequisite: EIN 3314. (F)

ESI 6319 Operations Research and Information Technology (3). Principles and paradigms for the design and implementation of OR models, which may be integrated into an organization's existing information system and technologies. Prerequisite: ESI 6316.

ESI 6455 Advanced Engineering Project Management (3). This course covers entire phases of project management including selection, planning, budgeting, scheduling, monitoring, and control. It focuses on the management of engineering projects through case studies and independent research assignment. Prerequisite: Permission of the instructor. (S,SS)

ESI 6524 Applied Industrial Systems Simulation (3). Advanced simulation techniques with a focus on practical systems modeling using several user-oriented simulation languages. Projects involving design of high-performance simulation programs are required. Prerequisite: ESI 3523. (S)

ESI 6528 Advanced Topics in Simulation Modelling (3). An examination of the role of artificial intelligence, object oriented programming, and databases as enabling technologies in the simulation modeling process. Review of the literature and case studies. Prerequisite: ESI 6524 or equivalent.

ESI 6546 Network Flow Analysis (3). Deterministic and stochastic network flow analysis; minimal cost flow, shortest route, max-flow, and out-of-kilter algorithms; constrained network analysis; and stochastic queueing networks. Prerequisite: ESI 3314.

ESI 6547 Stochastic Models of Industrial Systems (3). Applications of models from gaming, decisions analysis, queueing, inventory and scheduling to assess the performance level of industrial systems operating under random conditions. Prerequisite: ESI 6316
Mechanical Engineering

Richard Irey, Professor and Chairperson
Yiding Cao, Associate Professor
M. All Ebadian, Professor
Gordon Hopkins, Professor and Dean
W. Kinzy Jones, Professor
Umit Koylu, Assistant Professor
Cesar Levy, Professor
Anthony McGoron, Assistant Professor
James E. Moore, Jr., Associate Professor and Coordinator, Graduate Studies
Norman Munroe, Associate Professor
Mordechai Perl, Courtesy Professor
Luis Pujol, Instructor
Diana Rincon, Assistant Professor
Carmen Schenck, Counselor
Advisor/Instructor
Richard Schoephoerster, Associate Professor
Ibrahim Tansel, Associate Professor
Sabri Tosunoglu, Associate Professor
Kuang-Hsi Wu, Professor

Master of Science in Mechanical Engineering

Admission Requirements

The Department of Mechanical Engineering offers both thesis and non-thesis options for the Master's Degree. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies in areas of interest.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.

2. An applicant must have achieved a "B" average in upper level undergraduate work and a combined score of 1650 on the Graduate Record Examination with the following minimum scores on the individual components: verbal ≥350, quantitative ≥650, analytic ≥550.

3. Applicants who have not satisfied the above will be evaluated for probationary or 10% waiver admission.

4. In addition to the above criteria, foreign students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

5. The GPA, GRE and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science areas other than mechanical engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission to the graduate program requires the completion of these background courses with no grades below "C" and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.

2. Certification provided by the Department Chair and College Dean that all degree requirements have been met.

3. Completed the three department core course requirements plus the two required core courses in the student's major area.

4. Completed undergraduate course deficiencies specified at admission, if any, with no grades below "C" and a GPA ≥ 3.0.

5. Thesis degree: Successfully completed a minimum of 31 semester hours of graduate course work as specified in an approved study plan containing at least 6 hours of 6000 level courses with a GPA ≥ 3.0 (the minimum successful grade is a "C"; not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan).


Non-thesis degree: Successful completion of a final oral comprehensive examination covering the general objectives of the study plan.

7. Students must achieve an overall GPA ≥ 3.0 in all graduate work completed at FIU in their approved study plan.

8. Full-Time Students: Completed one semester of the Graduate Seminar course.

9. Complied with all relevant University policies and regulations.

Thesis Option

A student shall complete a minimum of 24 semester credit hours of course work, plus a minimum of 6 semester credit hours of EML 6971, Master's Thesis, and one semester of the ME Graduate Seminar.

The course requirements include a minimum of 12 hours of 6000-level course credit including thesis hours. A maximum of 6 credit hours of courses offered by other departments may be included among the 24 course hour minimum. A maximum of three credit hours of approved independent studies, EML 6908, may be counted toward the M.S. degree. A maximum of six graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and have a minimum letter grade of 'B'. Transfer courses must be approved by the advisor and Graduate Coordinator.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of a least three faculty members (at least two of which are from the department). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than 10 days before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the
candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree on the outcome - pass or fail- and report the results to the graduate school. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form bound in the final document. Hardcover bound copies of the approved thesis must be provided to the advisor, department, and the library.

Non-Thesis Option
A student shall complete a minimum of 33 semester credit hours of graduate course work, and one semester of Graduate Seminar. Non-thesis students are encouraged to do a three-credit project under the independent study course registration. An approved study plan must include at least 12 credits of 6000 level graduate course work, including the project if elected. Up to nine credit hours of graduate course work from other departments may be included among the minimum of 33 credits. A maximum of six graduate credits from other accredited graduate programs completed with a ‘B’ or better and not counted toward a previous degree may be included in the study plan. The advisor and the Graduate Coordinator must approve transfer courses if they are to be included in a study plan. A maximum of three credits of independent study beyond an independent project may be included in a study plan.

Non-thesis students are required to take a final oral comprehensive exam dealing with the objectives of their study plan. If a project has been completed, the student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least two of which are from the department.

Areas of Specialization
- Air Conditioning and Refrigeration
- Applied Mechanics
- Bioengineering/Biomechanics
- Computer Aided Engineering Design
- Electronic Packaging
- Energy Systems
- Environmental and Waste Management
- Finite Element Analysis
- Fluid Mechanics
- Heat Transfer Manufacturing
- Material Science
- Robotics
- Thermal Sciences

Course Requirements
All MSME degree seeking students must take the following two courses or equivalent plus one seminar as common core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 5315</td>
<td>Intermediate Analysis of Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGM 5346</td>
<td>Computational Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EML 6935</td>
<td>Graduate Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following two courses with advisor approval:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 5354</td>
<td>Finite Element Method Applications in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGM 6422</td>
<td>Advanced Analysis of Mechanical Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

An additional six credit hours of core courses must be taken depending on the area of interest:

Thermo/Fluid/Biomedical Area:
- EML 5709 Intermediate Fluid Mechanics 3
- EML 6725 Computational Fluid Dynamics 3

Mechanics/Materials Area:
- EGM 5615 Synthesis of Engineering Mechanics 3
- EGM 6570 Fracture Mechanics 3

Design and Manufacturing Area:
- EML 5530 Intermediate CAD/CAE 3
- EML 5385 Identification Techniques of Mechanical Systems 3

A minimum of 9 (thesis) or 18 (non-thesis) credit hours are to be taken from the following Mechanical Engineering courses. (Up to a maximum of six (thesis) or nine (non-thesis) semester hours may be taken from courses offered by other departments).

Doctor of Philosophy in Mechanical Engineering

Admission Requirements
The requirements for admission to the doctoral program in Mechanical Engineering for applicants having a Bachelor’s degree in Mechanical Engineering from an accredited institution are the following:

a) GPA of at least 3.0/4.0 in the last 60 credit hours attempted
b) GRE of at least 1700 points with the following minimum on the individual components: verbal ≥ 400, quantitative ≥ 650, analytic ≥ 550.

c) Three letters of recommendation.

d) For foreign students whose native language is not English a TOEFL score of at least 550 is required.

e) Applicants having a Master’s degree in Mechanical Engineering from an accredited institution must also satisfy the above requirements for admissions to the doctoral program; however a GPA of at least 3.3/4.0 in the Master’s program is also required.

Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University’s Graduate Policies and Procedures.

Identification of Research Area
Within 15 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no professor is obtained, the student will be dismissed from the Ph.D. program. Contact the department for a list of the graduate faculty members and their research interests.

Course Requirements
Applicants having a Bachelor’s Degree in Mechanical Engineering are required to complete at least 90 credit hours, of which at least 66 hours must be course work and 24 hours dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

1. At least 36 credits at the 5000 level or higher, not to include dissertation.
2. At least 21 credits at the 6000 level or higher, not to include dissertation.
3. A minimum of 9 semester credits in Mathematics.
4. A maximum of 18 credits outside the areas of Mathematics and Mechanical Engineering.
5. A minimum of 24 credits of dissertation.

A maximum of 6 semester hours of graduate credit earned from another accredited institution that was not used for a previous degree may be transferred as long as the courses were completed within the six years preceding admission to the program.

Applicants having a Master’s Degree in Mechanical Engineering from an accredited institution may include a maximum of 30 semester hours as part of their requirements.
Core Courses
Mathematics: 9 credit hours selected from the following list:
- MAA 4402 Complex Variables
- MAS 5145 Applied Linear Algebra
- STA 5206 Design of Experiments
- MAD 4045 Numerical Methods
- STA 5126 Fundamentals of Design of Experiments
- MAP 4401 Adv. Differential Equations
- STA 5236 Regression Analysis
- MAP 5236 Math. Tech. of Oper. Research
- STA 5676 Reliability Engineering
- MAP 5407 Methods of Applied Analysis
- STA 5800 Stochastic Proc for Engineers
- STA 5505 Nonparametric Methods
- STA 6166 Statistical Methods in Research I
- STA 6167 Statistical Methods in Research II
- STA 6176 Biostatistics
- STA 6246 Data Analysis I
- STA 6247 Data Analysis II
- STA 6326 Mathematical Statistics I
- STA 6327 Mathematical Statistics II
- STA 7707 Multivariate Methods I
- STA 7708 Multivariate Methods II

These are the only two undergraduate courses that are allowed.

Engineering: 18 credit hours as listed below:
- EGM 5315 Intermediate Analysis of Mechanical Systems
- EGM 5615 Synthesis of Engineering Mechanics
- EGM 6422 Adv. Analysis of Mechanical Systems
- EMA 5935 Adv. Topics in Materials Engineering
- EML 5530 Intermediate CAD/CAE Mechanics
- EML 5709 Intermediate Fluid Mechanics

Dissertation: 24 credits

Elective Courses: An additional 39 credit hours available to students admitted directly based on a Bachelor's degree. Possible elective courses from the Mechanical Engineering department include:
- Thermo/Fluid
  - EGM 6586 Fluid Mechanics
  - EGM 6587 Applied Biomedical & Diagnostic Measurements
  - EGM 6588 Solid Mechanics Applications in Physiological Systems
- Design and Manufacturing
  - EML 5385 Identification Techniques of Mechanical Systems
  - EML 5505 Smart Machine Design and Development
  - EML 5509 Mechanical Design Optimization
  - EML 5562 Advanced Electronic Packaging
  - EML 5808 Control Technology for Robotic Systems
  - EML 5825 Sensors and Applied Machine Intelligence
  - EML 6223 Advanced Mechanical Vibration Analysis
  - EML 6532 Advanced CAD/CAE
  - EML 6805 Advanced Design of Robots

Residency Requirements
The Ph.D. student must spend at least one academic year in full-time residency. To satisfy the residency requirement for the Ph.D. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months in residency at the University.

Graduate Supervisory and Research Committee
The student's Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and not later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Guidelines in the department for more details on how to select the committee members.

Ph.D. Course Breadth Requirements
Breadth criteria could be satisfied for students admitted prior to Spring 1996 by taking 2 courses in 1 field/area outside the student's own field. For students admitted after Spring 1996, by taking 3 courses in field/area outside student's own field.

Examinations and Proposal and Final Defense
Student must demonstrate graduate knowledge acquisition in four incremental stages in order to be awarded a Ph.D. in Mechanical Engineering.
- Stage I - Qualifying Exam (QE)
- Stage II - Proposal Defense (Graduate Seminar)
- Stage III Comprehensive Exam (CE)
- Stage IV - Final Defense
In the semester prior to his/her taking the QE or CE, student must declare intention to take QE or CE and must declare a major field or area of research.
I. Qualifying Exam (QE)

General written exam to test masters level knowledge.

A student who is admitted to the Ph.D. program with a bachelor's degree must take the QE no later than the beginning of the 3rd year after admission, and a student who enters the Ph.D. program with a masters degree must take and pass the QE no later than the beginning of the 2nd year after admission. Students may petition for exceptions to the graduate student committee. A student who fails the QE may retake the exam once only.

II. Proposal Defense (PD)

The dissertation proposal will be presented by the student in the form of a Graduate Seminar in which he/she must submit a proposal for his/her dissertation.

Students must declare their proposal subject after taking the Qualifying Exam but before taking the Comprehensive Exam.

III. Comprehensive Exam (CE)

The objective of the CE is to assess the depth of knowledge in the major field of research. The examination will be developed by the student's dissertation committee. It must be taken before the end of the 2nd semester of Year 3.

IV. Final Defense (FD)

There will be a public defense at a graduate seminar. The defense can be failed no more than twice.

The final defense should be presented no later than the 4th year after the master's degree and no later than the 6th year after the bachelor's degree.

Following the successful defense of the dissertation, as determined by a majority vote of the student's examining committee, the dissertation must be forwarded to the Dean of the College of Engineering and the Dean of Graduate Studies for their approval.

All dissertations submitted in fulfillment of the requirements for graduate degrees must conform to University guidelines (see "Regulations for Thesis and Dissertation Preparation"). One final, approved copy of the dissertation must be delivered to the Chairperson of the Department of Mechanical Engineering. Library copies must conform to University guidelines, also published in "Regulations for Thesis and Dissertation Preparation."

Financial Aid

Consult the Department for information on research and teaching assistantships available for doctoral students.

Course Descriptions

Definition of Prefixes


EGM 5315 Intermediate Analysis of Mechanical Systems (3). First course at the graduate level in the analysis of mechanical systems. Modeling of the system and analytical and numerical methods of solving the governing equations will be studied. Fluid and thermodynamic systems will be emphasized in this course. Prerequisite: EGM 3311 or Permission of the instructor.

EGM 5346 Computational Engineering Analysis (3). Application of computational methods to mechanical engineering problems of translational, rotational, control, thermal and fluid systems employing linear/nonlinear system elements. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, MAP 2302 or EGM 3311, and EML 3222, or permission of the instructor.

EGM 5354 Finite Element Method Applications in Mechanical Engineering (3). Utilize the finite element method to solve problems in heat transfer, fluid dynamics, diffusion, acoustics, vibration, and electromagnetism, as well as the coupled interaction of these phenomena. Prerequisites: EML 2030 or CGS 2420, EMA 3702, and EML 4140.


EGM 5615 Synthesis of Engineering Mechanics (3). Unified approach to the analysis of continuous media using constitutive equations, mechanical behavior of materials and their usefulness in handling failure theories and composite materials. Prerequisites: MAP 2302 or EGM 3311, and EMA 3702.

EGM 5935 Review of Topics in Mechanical Engineering (4). To prepare qualified candidates to take Mechanical Engineering PE written examination. Reviewed courses include Thermodynamics, Fluid Mechanics, Mechanics of Materials, Mechanical Design and Heat Transfer.

EGM 6355 Nonlinear Finite Element Analysis (3). Nonlinear finite element analysis. Geometric and material nonlinearities will be considered in the formulation of different finite elements. Prerequisite: Permission of the instructor.

EGM 6422 Advanced Analysis of Mechanical Systems (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisite: EGM 5315 or Permission of the instructor.

EGM 6455 Impact Dynamics (3). Mechanical impact, point-mass collisions, vibratory impact, stress waves in solids, elastic-plastic stress waves, low velocity impact, penetration and perforation applications. Prerequisites: EGN 3321 and EMA 3702.

EGM 6570 Fracture Mechanics (3). Griffith's and Irwin's fracture criteria; stress intensity factors evaluation; crack-tip plastic zone; fracture toughness measurement; crack initiation; fatigue crack growth; stress corrosion cracking. Prerequisite: EGM 5615.

EGM 6586 Fluid Mechanics Applications in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machines, dialysis units, and heart valves will be discussed. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of biomeasurement
systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and imaging techniques, and electrical safety. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6588 Solid Mechanics Applications in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of the musculoskeletal system and trauma. Design application in orthotics and prosthetics and heart valves. Prerequisite: EGM 4580 or Permission of the instructor.


EGM 6593 Advanced Cardiac Mechanics (3). Applications of principles of solid mechanics to the human cardiovascular system. 3D reconstruction of the left ventricle, contractile properties and stress distribution in myocardium. Prerequisite: EGM 6588.

EGM 6654 Advanced Theory of Elasticity (3). Modern methods of stress and strain analysis including two-dimensional problems of stress concentration, contact adhesion, friction, thermal stresses, and dynamic waves. Prerequisites: EGM 5615, EGM 5315, or Permission of the instructor.

EGM 7456 Advanced Impact Dynamics (3). High velocity impact mechanics, hyper velocity impact mechanics, penetration mechanics, long rod and plate penetration mechanics, dynamic fracture, kinetic energy penetration, analytical modeling. Prerequisite: EML 6455 and Permission of the instructor.

EGM 7574 Advanced Fracture Mechanics (3). Modern fracture mechanics including invariant integrals, nano-scale fracture, environmental fracture, penetration mechanics, failure waves, erosion, and fracture by electron and laser beams. Prerequisites: EGM 6570, EGM 6422.

EGM 7575 Cutting Mechanics (3). Study of cutting stress, impact stress, stress and strain waves, tensile failure, shear-tension couples, responses in cutter and material, mechanics in body fiber and molecular structures. Prerequisite: EML 6455 and Permission of the instructor.

EGM 7676 Classic Topics of Nonlinear Mechanics (3). Classic topics on nonlinear mechanics, such as Theory of Plasticity of Solids, and the Theory of Jets and Cavities of Fluids. Prerequisites: EGM 5315, EGM 6422, EGM 5615, EML 5709.

EGM 5367 Industrial Materials and Engineering Design (3). Industrial materials, material selection, and engineering design process, including synthesis, analysis, optimization, and evaluation.

EMA 5295 Principles of Composite Materials (3). The mechanical behavior of composite materials used in the automotive, aircraft and sporting goods industries material and laminar properties; design of composites; failure analysis; and environmental effects. Prerequisite: EGM 5615 or Permission of the instructor.

EMA 5507C Analytical Techniques of Materials Science (3). Fundamental theories and techniques of the analytical methods for materials including: X-ray diffraction, scanning and transmission electron microscopy, thermal and surface analysis, and vacuum systems. Prerequisite: EGM 3365.

EMA 5584 Biomaterials Science (3). Materials used in prosthetics for skin and soft tissue, vascular implant devices, bone repair, and artificial joints Structure-property relationships for biological tissue. Prerequisites: EGM 3365 and EMA 3702.

EMA 5935 Advanced Topics in Materials Engineering (3). Topics include thermodynamics of solids, principles of physical metallurgy, including phase transformation and diffusion and analytical methods in materials engineering. Prerequisite: EGM 3365 and EGM 3343.

EMA 6126 Advanced Physical Metallurgy (3). Energetics of phase transformation and spinodal decomposition, homogeneous and heterogeneous nucleation in solid state reactions, and martensite transformations. Prerequisites: EMA 4121 or Permission of the instructor.

EMA 6127C Advanced Physical and Mechanical Metallurgy (3). Advanced topics in physical and mechanical metallurgy including statics and dynamics of dislocations, plastic deformation of fracture, creep solidification, phase transformation, and heat treatment. Prerequisite: EGN 3365 or Permission of the instructor.

EMA 6165C Polymer Physics and Analytical Techniques (3). Topics in polymers and the analytical techniques, including: synthesis, characterization, state of polymers, plasma processes, X-ray diffraction, scanning and transmission electron microscopy. Prerequisite: EGN 3365 or Permission of the instructor.

EMA 6185 Advanced Mechanics of Composite Materials (3). Study of micromechanics and mechanical processes in microscale, including fracture, reinforcement and delamination. Prerequisite: EMA 5295.


EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and legendre transformations; Maxwell relations, first and second order phase transitions. Prerequisite: EML 3101.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electromagnetic, and chemical systems, under ideal and real conditions. Prerequisite: EML 3101.


EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these techniques are discussed for identification of mechanical structures, and machine diagnostics. Prerequisite: EML 4312.

EML 5412 Combustion Processes (3). Introduction to combustion processes, thermochromistry, chemical kinetics, laminar flame propagation, detonations and explosions, flammability and ignition, applications in IC engines and gas turbines. Prerequisites: EML 3101 and EML 4140.

EML 5505 Smart Machine Design and Development (3). Design of independently operating smart electromechanical systems (most consumer products) which monitor their environment, give decisions, and create motion. Prerequisites: EML 4312 or consent of instructor.

EML 5509 Mechanical Design Optimization (3). Finite element analysis and sensitivity analysis combined with numerical optimization techniques to optimize the design. Prerequisite: EGM 5354 or Permission of the instructor.

EML 5519 Fault-Tolerant System Design (3). Fault tolerance in mechanical, manufacturing, computer, and aerospace systems. Basic stages of fault isolation. Fault tolerance measures, architectures, and mechanical system design methodologies. Prerequisite: EML 3500.

EML 5530 Intermediate CAD/CAE (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for planar kinematic systems will be emphasized. Prerequisites: EML 4535, or Permission of the instructor.

EML 5562 Advanced Electronic Packaging (3). Advanced topics in electronic packaging. Evaluation of first through fourth level assembly. Applications of computer layout design, thermal management and mechanical stability analysis. Prerequisite: EML 4561 or Permission of the instructor.

EML 5599 Heat Pipe Theory and Applications (3). Heat pipe theory, heat pipe design and its applications, especially in the areas of energy conversion and conservation. Prerequisites: EML 3101 and EML 4140.

EML 5606C Advanced Refrigeration and Air Conditioning Systems (3). The various methods used in the thermal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of producing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermostatic, solar heating and cooling systems. Prerequisite: EML 4601.

EML 5615C Computer/Aided Design in Air Conditioning (3). Software will be used to demonstrate heating, ventilating and air conditioning design concepts and sizing equipment and determining performance parameters. Project design is required. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, and EML 4601.

EML 5708 Advanced Design of Thermal and Fluid Systems (3). Advanced design of pumps, compressors, heat exchangers, HVAC systems, and thermal and fluid control devices. Prerequisite: EML 4706.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate solutions. Prerequisite: EML 3126.

EML 5748 Boundary Layer Theory (3). Advanced fluid dynamic analysis of the Navier - Stokes equation using boundary layer assumptions. Focus will be on solutions of thermal and fluid boundary layers. Prerequisite: EML 3126.


EML 5825 Sensors and Applied Machine Intelligence (3). Sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Production Machine Modeling and Design. Prerequisites: EML 4312 or Permission of the instructor.

EML 6153C Advanced Heat Transfer (3). Review of analogies among heat, mass and momentum transfer. Free and forced convection from theoretical and experimental viewpoint for laminar and turbulent flows. Film and dropwise condensation. Prerequisite: EML 5152.

EML 6154 Conduction Heat Transfer (3). Heat transfer by conduction for steady and unsteady one and multidimensional systems with and without heat generation. Temperature distribution analysis using analytical and computational methods. Prerequisite: EML 4140.

EML 6155 Convection Heat Transfer (3). Development and solution of governing equations of parallel flows, boundary layer flows, instability and turbulence with convective heat transfer. Prerequisite: EML 4140.

EML 6157 Radiation Heat Transfer (3). Heat transfer by radiation for steady and unsteady one and multidimensional systems. Radiation parameters effecting different systems will be studied, analytically or numerically. Prerequisite: EML 4140.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multidegree of freedom systems, discrete and continuous systems; vibration control and introduction to vibration of non-linear systems. Prerequisite: EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and practical aspects of material failure including failure modes, life prediction, corrosion with the goal of designing a safe product. Prerequisite: EGM 5615.

EML 6245 Advanced Tribology (3). Analyses of friction, wear, and flash temperature. Theories of elastohydrodynamic and mixed lubrications. Tribology of advanced materials. Prerequisite: EML 4246 or permission of the instructor.

EML 6518 Advanced Modeling in Mechanical Engineering (3). Basic principles of mathematical modeling following a variety of problems in mechanical engineering. Prerequisites: EGM 6422 and EGM 5615.

EML 6532 Advanced Computer-Aided Design/Computer-Aided Engineering (3). Advanced CAD techniques in design of mechanical systems. Architecture of CAD systems including database applications. Advanced computational geometry stu-
dent programming. Prerequisites: EML 5530.

EML 6574 Advanced Mechanical Design Optimization (3). Advanced topics in numerical optimization, sensitivity analysis, approximation techniques and shape optimization. Prerequisite: EML 5509.


EML 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechanics principles applied to high speed flows. Flows to be studied include flows with friction and heat loss/addition. Prerequisite: EML 4711.


EML 6747 Mechanics of Fluid Flow in Porous Materials (3). The mathematical theory of fluid penetration through porous materials and lungs, heat transfer, fluidized beds, non-stationary flows, and double continua. Prerequisite: EML 5709.

EML 6750 Multiphase Suspension Flow (3). Definition of multiphase flow, experimental observation, mathematical modeling of multiphase systems, measurement techniques, suspension boundary layer flow, and fluidization techniques. Prerequisite: Permission of the instructor.

EML 6805 Advanced Design of Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisites: EML 3222, EML 3262 and EML 4501.

EML 6908 Independent Studies (1-3). Individual research studies available for qualified graduate students. The work is to be performed under the supervision of an advisor. A report is to be submitted. Students may register for 1 to 3 credits per semester. Prerequisite: Advisor's permission.

EML 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

EML 6935 Graduate Seminar (1). Different problems in Mechanical Engineering and results of ongoing research will be presented and discussed by invited experts. The seminar will expose the students to advances in existing and emerging areas of research. Prerequisite: Graduate standing.

EML 6971 Masters Thesis (1-6). Masters thesis in any advanced topic, a report is to be submitted and an oral presentation is to be made. Students may register for one to six credits per semester. Total of six credits to be earned for the Master's Degree. Prerequisite: Advisor's permission.

EML 7728 Mechanics of Vortex and Separated Flows (3). Prediction of drag and lift forces acting upon a body moving in fluid or air for large Reynolds' numbers using numerical experiments with vortex and/or separated flows. Prerequisites: EML 6712, EGM 6422, and EML 6714.

EML 7837 Boundary Value Problems in Engineering (3). Analytical methods and skills for closed-form solutions of boundary value problem of mathematical physics and mechanics for engineering applications based on Riemann theory. Prerequisites: MAP 5407, MAA 4402, or Permission of the instructor.

EML 7979 Dissertation (3-12). Doctoral research leading to Ph.D. Mechanical engineering dissertation. Prerequisite: permission of advisor.
Construction Management

Jose D. Mitriani, P.E., Associate Professor and Chairperson
Syed M. Ahmed, Assistant Professor
Amaury A. Caballero, P.E. Assistant Professor
Kenneth H. Carpenter, Associate Professor
Blaskar Chaudhari, P.E., Professor
John M. Dye, Instructor
Eugene D. Farmer, A.I.A., Associate Professor
Roberto Soares, Visiting Assistant Professor
Zeljko M. Torbica, Assistant Professor

Master of Science in Construction Management

The masters degree is rapidly becoming the entry level requirement for middle and upper level managerial positions in the construction industry. The primary goal of this program is to provide the knowledge and advanced skills essential for success in these positions. The program is flexible enough to accommodate graduates from other disciplines who may lack a part of the undergraduate background in construction management.

Students who hold four year undergraduate degrees in construction management or its equivalent in related fields may normally complete the masters degree in one academic year as full-time students. Equivalent in related fields should include studies in construction drawings, construction materials and methods, construction accounting and finance, economic planning, structures, sitework, legal aspects of construction, cost estimating, construction scheduling and business management/finance. Students with deficiencies in these fields may need longer residence for the masters degree, as they will be required to take specified basic courses to provide a foundation for advanced courses.

Admission Application

Each student wishing to enter the graduate program must formally apply to the University for acceptance. See catalog for graduate application instructions.

Admission Requirements

In order to be admitted, applicants should hold a Bachelor’s Degree in Construction, Construction Management, Architecture, Engineering, Business or equivalent related fields. In addition, applicants must meet one of the two following criteria:

1. Must have earned a minimum grade point average (GPA) of 3.0 in the last 60 credit hours of course work related to their undergraduate degree, as computed by the Office of Admissions, or,

2. Must have obtained a combined score of at least 1000 on the verbal and quantitative portions only of the Graduate Record Examination (GRE) or a minimum score of 300 on the Graduate Management Admissions Test (GMAT), and have earned a minimum grade point average of 2.0 in the last 60 credit hours of course work related to their undergraduate degree, as computed by the Office of Admissions.

GRE or GMAT

All graduate students, regardless of undergraduate GPA., are required by the University to take the GRE or the GMAT. Students that did not take the GRE or the GMAT for admission into the program must take either one no later than the beginning of the second semester into their master’s work.

TOEFL

In addition to the above criteria foreign students must take the TOEFL (Test of English as a Foreign Language) exam and obtain a score of 550 or better.

Background

Applicants should hold a Bachelor’s degree in Construction, Construction Management, Architecture, Engineering, Business or “equivalent related fields.” Transcripts of all applicants will be reviewed to ascertain successful completion of program prerequisites. “Equivalent in related fields” should include studies in construction drawings, construction materials and methods, construction accounting and finance, economic planning, structures, sitework, legal aspects of construction, cost estimating, construction scheduling and business management/finance. Students with deficiencies in these fields may need longer residence for the masters degree, as they will be required to take specified basic courses to provide a foundation for advanced courses.

Curriculum

Students seeking to obtain a Master of Science Degree in Construction Management have a choice of either a thesis or a non-thesis option. The 36 semester hour thesis option consists of a minimum of 30 semester hours of course work and up to six semester hours of thesis. The non-thesis option consists of 36 semester hours of course work and may include up to six semester hours of independent studies. A student shall not register for masters thesis without first having received the approval from his/her advisor, his/her supervisory committee, and the Chairperson of the Department. A student may not register for independent studies without first having received the approval of his/her advisor, the Department Graduate Committee, and the Chairperson of the Department.

Course Requirements

Graduate credit is awarded for courses numbered 5000 and above. The work in the major field must be in courses numbered 5000 or above. For work outside the major, courses numbered 3000 or above may be taken provided they are part of a plan of study approved by the student’s supervisory committee of the Department Graduate Committee, whichever is applicable. Approval must be obtained in writing prior to the student registering for such a course.

Students with deficiencies in the areas designated as equivalent related fields will be required to take 8000 and 4000 level courses in Construction Management prior to registering for any graduate level courses in order to provide the proper foundation for advanced courses. Students required to take these prerequisite courses are advised to register them for the ‘P’ or ‘F’(Pass or Fail) grade option and shall take them until they complete them with a grade of “P.” (For graduate students taking undergraduate prerequisite courses a “P” grade shall be considered to be equivalent to a minimum grade of “C” or better. All grades other than “P” or “F” grades (regardless of course level) will be counted when calculating the student’s graduate grade point average.

The program of course work for a masters degree must be approved by the student’s advisor, supervisory committee (if thesis option), and Department Chairperson. No more than six credits from a previous masters degree program may be applied toward a second masters degree. These credits are applied only with the written approval of the Department Chairperson and the Dean of the College of Engineering and Design.
Transfer of Credit

Only graduate (5000 - 7999) level work to the extent of two courses, totaling six semester hours, earned with a grade of 'A', 'B+', or 'B' may be transferred from another institution approved by the Department Chairperson and the Dean of the College of Engineering and Design, or from postbaccalaureate work at the University. Credits transferred from other universities will be applied toward meeting the degree requirements but the grades earned will not be computed in the student's grade point average. Acceptance of transfer of credit requires approval of the student's advisor, supervisory committee (if thesis option) and the Department Chairperson. Petitions for transfer of credit for a masters degree must be made during the student's first term of enrollment in the masters program. Nonresident or extension work taken at another institution may not be transferred to Florida International University for graduate credit. No courses taken by correspondence or as part of another degree may be used toward a graduate degree.

Supervisory Committee

Students that choose the thesis option should appoint a supervisory committee as soon as possible after admission into the program, but in no case later than the second semester of graduate study. Supervisory committees for graduate degree programs are nominated by the student's selected graduate advisor and approved by the Department Chairperson. The student’s proposed plan of study must be approved, in writing, by the student's graduate advisor, the supervisory committee and the Department Chairperson.

Masters Thesis

A student choosing the thesis option must, as part of his/her plan of study, prepare a written proposal of the thesis work planned for presentation to his/her graduate advisor, supervisory committee, and the Department Chairperson. This proposal must adhere to all University and Department regulations concerning format and content. Once this proposal is approved, in writing, by the student's graduate advisor, his/her supervisory committee, and the Department Chairperson, the student will be permitted to register for masters thesis.

Examination

A final comprehensive examination must be passed by both thesis and non-thesis masters candidates. This examination will be administered on campus and will cover at least the candidate's field of concentration and may include any other topics of general construction knowledge. For a candidate who elected the thesis option, the examination shall be administered by his/her supervisory committee. For a candidate who elected the non-thesis option, the examination shall be administered by an examination committee comprised of three department faculty appointed by the Department Chairperson. The final comprehensive examination may be waived, at the option of the Department Graduate Coordinator and the Department Chairperson, for candidates selecting the non-thesis, non-project, coursework only option. Candidates desiring a waiver must petition their request no later than the second week of their last semester prior to graduating.

Time Limitation

All work, including transferred credit, counted toward the masters degree must be completed during the seven years immediately preceding the date on which the degree is awarded.

Special Student

Students wishing to enroll in courses during the application process may do so as a special student. Students must consult an advisor for approval and complete a special student enrollment waiver. Without this waiver and advisor approval, there is no guarantee that the courses taken will be accepted for graduation. No more than 15 semester credits of work taken as a special student can be applied towards graduation. Students may take courses under the special student designation for one semester only.

General Regulations

Normal Loads

Students taking a minimum of 9 semester credit hours per semester are considered full time students at the graduate level. Students taking under 9 hours are considered part time and should be aware that certain university privileges and benefits may not be applicable to part time students. Students are not recommended to take excessive loads. Special exceptions may be made, at the option of the Department, in the case of students with a grade point average of 3.5 or greater. Students that meet this criteria wishing to take over 15 semester credit hours must have the approval of both the Chairperson of the Department and the Dean of the College of Engineering and Design, prior to registering for an overload.

Grades

The Department of Construction Management requires a minimum grade point average of 3.0 in all 5000 and 6000 level courses taken towards a masters degree. The minimum acceptable grade for any work attempted as a graduate student is a "C." Students required to take 3000 and 4000 level prerequisite courses shall take them in no case later than the second week of their last semester prior to graduating.

Grade of Incomplete

A grade of "I" (Incomplete) may be granted, at the option of the Instructor and the Department Chairperson, to a student who, due to serious, documented, and verifiable extenuating circumstances beyond his/her control (such as an illness requiring hospitalization) is unable to complete the work required to obtain a grade for a course. In no case shall a grade of "I" be granted to a student because he/she is not passing a course and desires additional time to attempt to obtain a passing grade. A student granted a grade of "I" must complete the work deemed by the Instructor necessary to complete the course no later than two semesters after the grade was assigned to the student, or the grade shall automatically revert to a grade of "F" (failing grade).

Credit By Examination

The Department does not generally offer credit by examination for required core courses or elective courses. A student with outstanding, exceptional and documented skills in a particular subject as well as an outstanding academic record may request credit by examination, and it is the option of the Department Faculty and the Department Chairperson whether to grant the request.

Credit For Non-College Learning

The Department does not award credit for non-college learning (life work experience).
Student Work
The Department reserves the right to retain any and all student work for the purposes of record, exhibition or instruction.

Normal Academic Progress
The student will have maintained normal academic progress when the student earns a minimum grade point average of 3.0 for all graduate work attempted.

Course Sequence and Prerequisites
Course prerequisites are clearly indicated on the Graduate Program sheets, available in the Department office. It is the student's responsibility, not the advisor's, to ascertain that required prerequisites have been taken and passed prior to registering for a course. Failure to comply with prerequisite requirements may result in the student being dropped from or failed in a class without prior warning from the instructor.

Probation or Suspension
Students who do not make satisfactory academic progress may be excluded from further registration.

Class Attendance
Class attendance may be required and may be used for grade determination at the option of the instructor.

Graduation
In order to be eligible to graduate the student must have successfully completed his/her plan of study as established with the student's graduate advisor, his/her supervisory committee, and the Department Chairperson. This includes completion of all applicable graduate course work with an overall minimum grade point average of 3.0. A student choosing the thesis option must also have submitted a complete masters thesis, whose format, content, and presentation must be acceptable to and approved by his/her graduate advisor, supervisory committee, and Department Chairperson. The student must additionally have successfully passed his/her final examination (See Examination, above).

Students should contact an advisor at least one semester prior to their projected graduation and request a review of his or her file. At the start of the final semester the student is required to complete and have his advisor approve an Application for Graduation, available from the Department. (See catalog for additional information on graduation procedures and scheduling.) If for any reason a student fails to graduate in the semester after applying for graduation, that student must reapply for graduation.

It is the student's responsibility, not his/her advisor's responsibility, to ascertain that all requirements for graduation, as stated in the University Catalog and in the Department Program sheets, have been met.

Core Curriculum
Required of students lacking appropriate and acknowledged (by advisor) course work in the topics below. Students required to take a core course will register for 3 credits of which 2 will count towards the 36 credits needed to complete the degree. Maximum number of core credits applicable towards degree: 12. Students with prior specific course work in these areas may not take these courses for credit towards degree.

BCN 5618  Fundamentals of Construction Estimating  3
BCN 5645  Construction Economic Analysis  3
BCN 5766  Codes and Regulations  3
BCN 5728  Principles of Construction Scheduling  3
BCN 5746  Construction Legal Environment  3
BCN 5406  Principle of Building Structures for Construction Management  3

Total core credits (maximum of 12 credits applicable towards degree).

Construction Management Electives
Balance of 36 credits to be taken from list below. Nine credits must be selected from courses marked with an asterisk (*). Thesis students may take up to 6 credits of BCN 6971, and all students may take up to 6 credits of BCN 5905 (see note below).

BCN 5022  Housing for Developing Countries  3
*BCN 5626  Construction Cost Analysis & Control  3
BCN 5706  Interdisciplinary Aspects of Housing  3
*BCN 5716  Productivity in Construction  3
BCN 5735  Hazardous Materials & Waste in Construction  3
*BCN 5755  Construction Financial Management  3
*BCN 5771  Management & Marketing of Const. Services  3

Course Descriptions

Definition of Prefixes
BCN-Building Construction
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

Student programs of study in the graduate level program are carefully designed and sequenced following consultation with a graduate faculty advisor. Appropriate prerequisite course work is assigned on the basis of individual needs.

BCN 5022 Housing for Developing Countries (3). Problems faced by developing countries in housing their population. Political, economic, social, and technical considerations in decision process. Prerequisite: Written permission of the Department Graduate Coordinator

BCN 5406 Principles of Building Structures for Construction Management (3). Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisite: Written permission of the Department Graduate Coordinator (F)
BCN 5618 Fundamentals of Construction Estimating (3). Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes. Prerequisite: Written permission of the Department Graduate Coordinator. (F)

BCN 5626 Construction Cost Analysis and Control (3). Description of different types of estimating techniques in relation to different stages in a construction project. Productivity analysis, measurement of progress, and techniques of cost control are covered. Prerequisites: BCN 4612.

BCN 5645 Construction Economic Analysis (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Prerequisite: Written permission of the Department Graduate Coordinator. (F)

BCN 5706 Interdisciplinary Aspects of Housing (3). Recognition and definition of those factors which affect the planning, financing, and construction of housing projects. The operations and responsibilities of a multidisciplinary team dealing with decision process. This course takes a critical look at the housing delivery system to include: the housing industry, various technologies prevalent in housing construction, and constraints to housing. The course will also look at the future, examining problems and forces that will shape opportunities.

BCN 5716 Productivity in Construction (3). An in-depth study of common issues relating to productivity improvements in construction. Prerequisite: BCN 4612 or equivalent. (F)

BCN 5728 Principles of Construction Scheduling (3). The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduling vs. actual job expenditures. Cost forecasting development of unit prices from field data. Laboratory is included which consists of computer applications. Prerequisite: Written permission of the Department Graduate Coordinator. (F)

BCN 5735 Hazardous Materials and Waste in Construction (3). Discussion of the common hazardous materials and waste regulations found in construction activities.

BCN 5741 Construction Claims (3). Construction claims administration and avoidance. Covers the importance of construction contract errors, unforeseen and changed conditions, disputes, acceleration, termination, and proving of claims.

BCN 5746 Construction Legal Environment (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisite: Written permission of the Department Graduate Coordinator. (S)

BCN 5747 Construction Law Case Studies (3). Case study and analysis of reported appellate decisions on common construction law issues; licensing, bid disputes; contract issues; construction lien law; surety problems; and unresolved claims.

BCN 5755 Construction Financial Management (3). Money management in construction operations: financing, funding, sources of money, cash flow, disbursement, liability and bonding, cost and managerial accounting, and profit analysis.

BCN 5766 Codes and Regulations (3). Study of building codes required by local, county, and state levels and their relation to quality control. Prerequisite: Written permission of the Department Graduate Coordinator. (S)

BCN 5771 Management and Marketing of Construction Services (3). Human effectiveness in marketing construction management services in the public and private sectors.

BCN 5772 Management of Construction Organizations (3). This course studies the management of a construction company. Topics included are: company organization, incorporation, structural, policies and procedures, finance, accounting, information modeling, bidding strategies, and operation. Prerequisite: BCN 3753 or BUL 4320 or BCN 3740.

BCN 5774 Topics in International Construction (3). Introduction to procurement, financing and management of international construction projects with emphasis on international economics, contracts, trade agreements and specifications. Prerequisite: Permission of the instructor.

BCN 5784 Construction Information Systems (3). The application of information management techniques, including computer hardware and software systems, to the analysis and solution of typical problems in the practice of construction management.

BCN 5905 Directed Independent Studies (VAR). Individual studies under supervision of faculty, tutor, or advisor.

BCN 5906 Special Topics (VAR). Intensive study for small group of students in a particular topic, or a limited number of topics not otherwise offered in the curriculum.

BCN 6473 Systems Approach for Housing Planning (3). Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantage of systems approach. Case studies.

BCN 6642 Value Engineering in Construction (3). Relationship of costs to time and life cycle of construction projects, and methods to improve the economic value of construction projects.

BCN 6775 Decision and Risk Analysis in Construction (3). Techniques of decision analysis for the medium to top level management personnel in the construction industry. Typical construction related problems that involve risk and uncertainty are studied. Prerequisites: STA 3132, BCN 3640, and BCN 4612.

BCN 6785 Advanced Estimating and Bidding Strategy (3). Application of computer software to rigorous exercises in construction estimating. Cost information related to construction with applications in current practice.

BCN 6788 Artificial Intelligence Applications in Construction Management (3). The course presents a study of the concepts, techniques, and applications of AI technology in the construction management domain. Prerequisites: COP 2172 and BCN 5784.
BCN 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

BCN 6916 Developments in Construction Technologies (3). Study of advanced field techniques and emerging uses worldwide. Information flow and creativity are highlighted as crucial elements which stimulate new developments. This course prepares the students to understand and deal with concepts of change. Prerequisite: BCN 5716.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (3-6). Students develop a thesis under the direction of a senior faculty mentor, and their supervisory committee, and advance and defend their propositions before an audience of peers, scholars, and their supervisory committee.
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Assistant Dean
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Assistant Dean
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Assistant Dean
Ayanna Amerigo

Assistant Dean
Lourdes Rassi

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Michele Ciccazzo

Dietetics and Nutrition
Odalys Martinez, (Acting)

Health Information Management

Occupational Therapy
Pamela Shaffner

Physical Therapy
Helen Z. Cornely

(Interim)

Public Health
Virginia McCoy

Speech Language Pathology
Lemmietta McNeilly

School of Nursing
Divina Grossman

School of Policy Management
Gloria Deckard

(Interim)

Suman Kakar

Criminal Justice
Vandon E. White

Health Services Administration
Donald Klingner

Public Administration
Ray Thomlison

School of Social Work

The College of Health and Urban Affairs was created by the Board of Regents in the Spring of 2000 when the former College of Urban and Public Affairs and the College of Health Sciences were merged. In support of the University's mission as a major urban research institution the College offers programs of professional study in selected health professions and that focus on critical management issues in urban environments.

The College is composed of four schools: School of Health, School of Nursing, School of Policy and Management and the School of Social Work. The College offers baccalaureate degrees in Dietetics and Nutrition, Health Information Management, Occupational Therapy, Nursing, Criminal Justice, Health Services Administration, Public Administration and Social Work. The Doctor of Philosophy is offered in Dietetics and Nutrition, Public Administration and Social Welfare.

In addition, the College of Health and Urban Affairs is home to seven centers and institutes: The Center for the Administration of Justice; Institute of Government; Institute for Children and Families at Risk; HRS/Children, Youth and Families Professional Development Center; the Institute for Public Management and Community Service, The Life Course and Health Research Center; and the National Policy and Resource Center on Nutrition and Aging. These centers and institutes provide research and service opportunities to students while maintaining an agenda of top level research on issues critical to our community and society. Information on these centers is contained in this catalog ("General Information—Centers and Institutes").

Students interested in the academic programs offered by the College of Health and Urban Affairs are urged to contact an advisor for guidance on admissions requirements, curriculum, and career planning. Please call the School of Health at (305) 348-3446, School of Nursing at (305) 919-5915, School of Policy and Management at (305) 348-5890 or School of Social Work at (305) 348-5840. The Dean’s Office may be reached at (305) 348-5840.

Changes to the Curriculum

Requirements

The programs, policies, and requirements and regulations listed in this catalog are continually subject to review in order to serve the needs of the University’s various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. This is especially true for the programs that are subject to national accreditation requirements (the majority of the degree programs in the College.) University policy changes in curriculum may be made without advance notice.

Generally, the College of Health and Urban Affairs makes every effort to minimize the impact of curriculum changes on currently enrolled students by stipulating that students complete the requirements of their degree program in effect at the time of admission or readmission to the program. In the event that this is not possible due to accreditation standards or the deletion of courses, students may be required to complete alternative degree requirements in order to graduate. All changes in a student’s curriculum requirements must be noted in the student’s official file, maintained by the appropriate School. Students should review their file to ensure that all documentation of changes to their approved program of study are noted.
School of Health

The School of Health offers programs of professional study in select health professions. The academic departments of the School offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition, Health Information Management, and Occupational Therapy. Master’s degrees are offered in Dietetics and Nutrition, Occupational Therapy, Physical Therapy, Public Health, and Speech Language Pathology. A Doctor of Philosophy is offered by Dietetics and Nutrition. All degree programs are appropriately accredited by their respective professional accrediting bodies. Speech Language Pathology, a new program, is applying for accreditation.

Applicants must submit an Application for Admission to the University and must follow regular University procedures. Applicants must be eligible for admission to the University before being admitted to any degree program. Because the school’s programs have different requirements, students interested in admission to any program in the School should contact the department for admission requirements.

The goals of the School of Health are to:
1. Prepare health professionals at the undergraduate and graduate levels.
2. Promote close articulation between the appropriate programs and the community clinical sites for the experiential learning of our students.
3. Increase the knowledge base of the health disciplines through research.
4. Provide service to the health professions at the local, regional, national and/or international levels.

Academic Support Services
For the School of Health, the Graduate Student Support Services are coordinated by Dr. Evelyn B. Enrione, Associate Dean. Academic support services are responsible for the coordination of academic advising and student services for the School. Student Support Services keep students informed on educational opportunities such as scholarships, graduate assistantships, tuition waivers, and campus resources; and serves as a liaison between the academic departments and the student support services university wide.

A student who has been accepted to a graduate degree program in the School must consult an advisor prior to the first class enrollment. An advisor may be assigned by contacting the Chairperson of the Department in which a graduate major is desired. Continued contact (at least once per semester) with the advisor is urged to review progress and select courses for each succeeding semester.

Note: The programs, policies, requirements and regulations listed in this catalog are continually subject to review. In order to serve the needs of the University’s various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature, changes may be made without advance notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.

HSC 5666 Information and Communication for Health Professionals (3). Information and communication technology introduces technology and practical computer applications for today’s health care professional. This on-line course uses web-based format. Prerequisite: Basic computer experience.
Dietetics and Nutrition

Michele Ciccacozza, Associate Professor, Chair
Katharine R. Curry, Professor Emeritus
Victoria Hammer Castellanos, Assistant Professor, and Director, Didactic Program
Zilca Dixon, Associate Professor, and Director, Coordinated Program
Penelope S. Easton, Professor Emeritus
Evelyn B. Enrine, Associate Professor and Associate Dean
Valerie George, Assistant Professor
Susan P. Himburg, Professor
Fatma Huffman, Professor, Director of Graduate Programs
Amy Jaffe, Clinical Instructor, Director Didactic Internship
Marcia Magnus, Associate Professor
Jorge Monserrate, Clinical Assistant Professor
Dian Weddle, Associate Professor
Nancy S. Wellman, Professor

The Department offers graduate programs leading to a Master of Science or a Doctor of Philosophy in Dietetics and Nutrition. The M.S. program is designed to meet the needs of professional practitioners as well as students with undergraduate degrees in related fields. There is an opportunity for students to complete the requirements to sit for the National Registration Exam for Dietitians by applying to the Dietetic Internship in conjunction with the Master's program. In some cases prerequisites must be met before enrolling in graduate courses. Interested students should contact the department prior to applying for admission.

Minimum entrance requirements under current Board of Regents policy must be met. For the M.S. these include a combined score of 1000 on the Verbal and Quantitative Aptitude Test of the Graduate Record Examination or at least a "B" (3.0 on a 4.0 scale) average in all upper division work. For the Ph.D., an M.S. degree, 3.0 GPA and 1000 GRE are required. Application procedures for admission are detailed in the Undergraduate procedures for admission to graduate study.

Students who are candidates for the Master of Science degree in Dietetics and Nutrition must complete a minimum of 37 semester hours of graduate study including at least 30 hours at this University. All course work must be recent enough to be relevant to the contemporary field of nutrition. Ph.D. students must complete a minimum of 55 hours after M.S. degree.

The Dietetic Internship (DI) is currently granted accredited status by The Commission on Accreditation/Approval for Dietetic Education of The American Dietetic Association, 216 Jackson Blvd., Chicago, Ill. 60606-6995, (312) 899-4870.

The program begins each Fall semester and is completed by the following June. Students have the opportunity for supervised dietetic practice in outstanding health care facilities in South Florida. Enrollment is limited and requires a separate application available from the department. To be eligible, students must have completed an ADA Didactic program and be admitted to the graduate program. (Students must have official committee approval of thesis proposal prior to the application deadline of February 15.)

Students must meet all graduation requirements for the M.S. degree in order to receive the verification statement of Dietetic Internship program completion.

Master of Science in Dietetics and Nutrition

Each student's program will be planned to support his/her career goals through consultation with an assigned faculty advisor. Retention and graduation in the Master's program requires maintenance of a 3.0 GPA.

Course Requirements

Required Core (23)

Research: (14)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE 6568</td>
<td>Research Methods in Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>DIE 6937</td>
<td>Graduate Seminar in Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>DIE 6971</td>
<td>Thesis in Dietetics and Nutrition</td>
<td>6</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Nutrition Core: (9)

Students must take at least three out of five courses. One course must be in macronutrients, one in micronutrients.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HUN 5245</td>
<td>Nutrition and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6307</td>
<td>Carbohydrates and Lipids</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6327</td>
<td>Proteins</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6335</td>
<td>Functions of Vitamins</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6555</td>
<td>Minerals in Human Nutrition</td>
<td>3</td>
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</tbody>
</table>

Recommended Electives: (14)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 6469</td>
<td>Graduate Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>DIE 6368</td>
<td>Advanced Techniques in Dietetic Practice</td>
<td>2</td>
</tr>
<tr>
<td>DIE 6368L</td>
<td>Advanced Techniques in Dietetic Practice Lab</td>
<td>1</td>
</tr>
<tr>
<td>DIE 6929</td>
<td>Specialized Short Course in Dietetics and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>FOS 6236</td>
<td>Food Toxicology and Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>HUN 5123</td>
<td>Ethnic Influences on Nutrition and Food Habits</td>
<td>3</td>
</tr>
<tr>
<td>HUN 5621</td>
<td>Food, Nutrition and Communication</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6248</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6249</td>
<td>Nutrition and Physical Function</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6254</td>
<td>Drug and Nutrient Interaction</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6255</td>
<td>Nutrition and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6257</td>
<td>Physio/Psychology of Food Intake</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6266</td>
<td>Nutritional Assessment</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6295</td>
<td>Contemporary Issues in Food and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6435</td>
<td>Nutrition and Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUN 6522</td>
<td>Public Health Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

1Courses that are not listed as recommended electives may be taken as approved by advisor/Program Director.

Doctor of Philosophy in Dietetics and Nutrition

Students' course work will be planned to support the research interests and career goals with the advisor and the dissertation committee. A maintenance of 3.0 GPA in all course work is required.

Required Courses

Research (minimum 5 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HUN 6811</td>
<td>Laboratory Research Methods in Dietetics &amp; Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>DIE 6578</td>
<td>Qualitative Research Methods in Dietetics &amp; Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>DIE 7566</td>
<td>Research Concept Development in Dietetics &amp; Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

1Prerequisite: STA 6166
2Corequisite: STA 6167

Seminar (3 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE 6937</td>
<td>Graduate Seminar in Dietetics &amp; Nutrition</td>
<td>1</td>
</tr>
</tbody>
</table>

(course may be repeated 3 times, minimum)
General Applied Dietetics & Nutrition (minimum 6 credits)

DIE 6368 Advanced Techniques in Dietetic Practice 2
DIE 6368L Advanced Techniques in Dietetic Practice Lab 1
HUN 5123 Ethnic Influences on Nutrition and Food Habits 3
HUN 5621 Food Nutrition and Communication 3
HUN 6295 Contemporary Issues in Food & Nutrition 3

Nutrition Science (minimum 6 credits)
HUN 6327 Proteins 3
HUN 6328 Carbohydrates and Lipids 3
HUN 6335 Functions of Vitamins 3
HUN 6335 Minerals in Human Nutrition 3

Dissertation
DIE 7980 Dissertation 12-24

Collaterals 23-24
With the assistance of a major professor and dissertation committee, a Program of Studies with complementary areas will be developed.

Course Descriptions
Definition of Prefixes
DIE-Dietetics; FOS-Food Science; FSS-Food Service Systems; HUN-Human Nutrition
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

DIE 5247 Trends in Therapeutic Nutrition (3). Evaluation and interpretation of current research in dietary care of metabolic diseases. Prerequisite: Diet therapy or approval of the instructor.

DIE 5936 Advanced Practice Seminar (1-3). Designed to provide didactic components in tandem with practice learning experiences in health care institutions. Covers material in clinical dietetics, management, and community nutrition. Utilizes a team approach and will draw on specialists from all areas of dietetics. Corequisites: DIE 5946, DIE 5947, DIE 5948 or Permission of the instructor. (S)

DIE 5946 Advanced Practicum in Community Nutrition (1-6). Pre-planned clinical progression in community nutrition. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (S)

DIE 5947 Advanced Practicum in Dietetic Administration and Management (1-6). Pre-planned clinical experience at the professional level in dietetic administration and management. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 5948 Advanced Practicum in Clinical Nutrition (1-6). Pre-planned clinical experience at the professional level in clinical therapeutic nutrition. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 6128 Advanced Management of Dietary Systems (3). Application of management and organizational theory to dietetic systems in health and community institutions.

DIE 6256 Enteral Nutrition (3). The specific indications for enteral feeding are discussed with special emphasis on the unique requirements, and feeding techniques for specific disease states. Prerequisites: Physiology, Biochemistry, DIE 3244 and DIE 4246.


DIE 6259 Management of Nutrition Services (3). Analysis of interdisciplinary nutrition services delivery with emphasis on management models and theories regarding division of work, quality improvement and productivity, leadership, motivation and planning, organizing, staffing, directing, and controlling.

DIE 6367 Entrepreneurial Dietetics (3). Focus on the dietitian as an owner/partner or top level manager. Emphasizes business management principles as applied to dietetics and nutrition. Prerequisite: DIE 6128 or equivalent.

DIE 6368 Advanced Techniques in Dietetic Practice (2). Techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4435L or equivalent. Corequisite: DIE 6368L. (S; even years)

DIE 6368L Advanced Techniques Dietetic Practice Lab (1). Individual practice in conducting interviews, planning nutritional care, changing nutritional behavior, and providing dietetic consultation. Prerequisite: Permission of the instructor. Corequisite: DIE 6368. (S, even years)

DIE 6438 Dietetic Programs for Post Secondary Settings (3). Review of techniques and materials. Emphasis on preparing documents for accreditation and approval of dietetic programs. Prerequisite: Permission of the instructor.

DIE 6565 Computer Application in Dietetic & Nutrition Research (3). Application of various computer software programs to research problems. Prerequisite: Permission of the instructor.

DIE 6568 Research Methods in Dietetics (3). Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: STA 6166 or permission of the instructor.

DIE 6578 Qualitative Research Methods in Dietetics (3). Application of qualitative research methods including field and case study approaches in interpreting and designing research studies. Introduction to interdisciplinary research. Prerequisite: DIE 6568.

DIE 6906 Readings in Dietetics and Nutrition (1-3). Individual advanced study in a comprehensive overview of dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of the instructor and advanced standing in graduate program. (F,S,SS)

DIE 6907 Individual Study in Dietetics (1-3). Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Instructor. (F,S,SS)

DIE 6915 Supervised Research (1-3). Continuation of thesis research under thesis advisor. Repeatable. Prerequisite: Completion of all other required course work. (F,S,SS)
DIE 6929 Specialized Short Courses in Dietetics and Nutrition (1-3).
Intense courses on specialized topics in dietetics and nutrition for the advanced
student or professional. Topic based on current nutrition concerns. Prerequisites: Advance graduate
standing and permission of the instructor.

DIE 6935 Special Topics in Dietetics
(3). In-depth study of historical, epidemiological, prevention, and
and treatment aspects of topics related to
dietetics. Prerequisites: Competence in
topic covered, admission to graduate
program.

DIE 6937 Graduate Seminar in Dietetics and Nutrition (1).
Presentations by researchers, practitioners,
and graduate majors related to
advances in theories and applications in
nutrition and dietetics. Two semester
enrollment required of all graduate
students. (F,S)

DIE 6971 Thesis in Dietetics and Nutrition (1-6). Prerequisites: DIE
6568 or DIE 6578 or HUN 6811, 12
hours of graduate study and permission of
Thesis advisor. (F,S,SS)

DIE 7437L Nutrition Counseling Supervision (2). Covers techniques for
advising on food choices and providing
support for life style changes to meet
wellness goals or treat diseases.
Prerequisites: DIE 6368 and DIE
6368L.

DIE 7566 Research Concept Development in Dietetics and Nutrition
(3). Grant proposal writing for dietetic and
nutrition research. Prerequisite: DIE
6568, STA 6166, and STA 6167.

Prerequisite: Advancement to candidacy in doctoral program.

FOS 6236 Food Toxicology & Food Safety (3). Discusses food and water
borne bacterial, parasitic, and viral
infections and intoxication. Examines
food additives, and contaminants.
Describes toxic food constituents as
well as naturally occurring toxicants.
Prerequisites: Graduate standing and
food science competency.

FSS 6317 Human Resources Management in Nutrition Services (3).
Application of human resources theory
to nutrition services; raising
productivity and service quality.
Prerequisite: Advanced management
course.

FSS 6367 Operations Analysis in Food Service and Nutrition Care
Systems (3). Models and methods of
budget and service forecasting related
to food service and nutritional care in
large and small institutions of short and
long term care. Prerequisites: Advanced graduate standing, DIE 6128
or equivalent.

FSS 6535 Computer Assisted Food and Nutritional Services Management
(3). Advanced course in computer
analysis and utilization for
detection and resolution of problems of
food service and nutritional care.
Prerequisites: Advanced graduate
standing, DIE 6128 or equivalent, and
computer competency.

FSS 6535L Computer Assisted Food and Nutritional Services Management Lab (1).
Laboratory application in computer
analyses and utilization in
food services and nutrition care.
Prerequisite: Advanced Graduate
Standing. Corequisite: FSS 6535.

HUN 5123 Ethnic Influences on Nutrition and Food Habits (3).
Systematic study of food habits of various
cultural groups. Emphasis on method-
ology, analysis of data, relationship of
food habits to nutritional standards,
and corrective measures. Includes lab-
atory. Prerequisite: Competency in
food preparation and nutrition. Rec-
commended for non-majors.

Advanced study of magnitude, causes
and nature of undernutrition in
developing countries; emphasis on
programs, planning and policies
directed toward alleviating hunger.
Prerequisite: Permission of the
instructor. Recommended for non-
majors.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the
relationship of nutrition and biochemistry
with emphasis on digestion, ab-
sorption, metabolism of nutrients, and
determination of norms. Prerequisites:
Organic Chemistry and Physiology

HUN 5611 Nutrition Education in the Community (3). In-depth study of
nutrition education information and
methods in the community including
the nutrition education component of
school food service and other
congregate meal programs. Prere-
quisite: Recent courses in nutrition
education or Permission of the
instructor.

HUN 5621 Food, Nutrition and Communication (3). Concepts and
techniques for effective professional
communication with individuals,
groups and other professionals.
Emphasis on communication via mass
media. Prerequisites: Competency in
food and nutrition knowledge.

HUN 6196 Food Economics (3). In-depth study of forces and policies
affecting the procurement, preparation
and utilization of food in society.
Prerequisite: Advanced graduate
standing.

HUN 6248 Sports Nutrition (3). The influence of exercise on specific
nutrient demands and utilization of
nutrients will be examined. Nutritional
requirements and interrelationships
between nutrition and exercise in the
prevention and management of common
diseases such as obesity, hypertension,
diabetes and cardiovascular disease
will also be discussed. Prerequisite:
Human Nutrition and Intermediate
Physiology. (S, odd years)

HUN 6249 Nutrition and Physical Function (3). Covers food intake as it
relates to physical development and
physical performance. Emphasis will
be on subgroups of the population.
Prerequisites: Competence in nutrition
and physiology and advanced graduate
standing.

HUN 6254 Drug and Nutrient Interaction (3). The interaction of
drug and nutrient metabolism in relation to optimum nutrition.
Prerequisites: Advanced Nutrition,
Biochemistry, Physiology.

HUN 6255 Nutrition in Wellness Program (3). Examination of required
factors for successful development,
implementation and evaluation of
wellness programs and investigation of
interrelationships between nutrition/
physical activity as means of chronic
disease risk reduction.
Prerequisite: Advanced Nutrition
and Nutrition Education.

HUN 6257 Physio/Psychology of Food Intake (3). Examination of food
intake regulation with applications in
both research and practice. Prere-
quisite: Competence in nutrition and
physiology.

HUN 6266 Nutritional Assessment
(3). In-depth study of the methodology
and application of nutritional assess-
ment. Prerequisites: Advanced Nutri-
tion, physiology, and biochemistry.

HUN 6307 Carbohydrates and Lipids (3). The biological, physiological and metabolic functions of carbohydrate and lipids as they relate to human nutrition. Prerequisites: Biochemistry, Advanced Nutrition and Physiology.

HUN 6327 Proteins (3). Protein metabolism, physiology and nutrition. Prerequisite: Biochemistry, Advanced Nutrition, and Physiology.

HUN 6335 Functions of Vitamins (3). Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, even years)

HUN 6355 Minerals in Human Nutrition (3). The physiological and metabolic functions of selected macro and trace minerals as they relate to nutritional status in humans. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, odd years)

HUN 6435 Nutrition and Aging (3). Changes associated with aging and the impact of nutrition on these changes. Prerequisite: Permission of the instructor. (S, odd years)

HUN 6522 Public Health Nutrition (3). Development and assessment of nutrition programs for the general population throughout the life cycle. Prerequisite: DIE 3317 or equivalent.

HUN 6811 Laboratory Research Methods in Dietetics (2). Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of instructor.

Medical Laboratory Sciences

In November 1999, the Florida Board of Regents voted to terminate the current baccalaureate and master's program in Medical Laboratory Science.
Occupational Therapy

Pamela Shaffner, Clinical Associate Professor and Chairperson
Alma Abdel-Moty, Clinical Assistant Professor and Undergraduate Coordinator
Elise Bloch, Clinical Assistant Professor
Suzanne D'Agati, Assistant Professor
Gail Ann Hills, Professor
Susan Kaplan, Associate Professor
Ann Marie Knecht, Clinical Assistant Professor and Clinical Coordinator
Paula Lamberston, Visiting Clinical Assistant Professor
Patricia Scott, Associate Professor and Graduate Coordinator

Master of Science in Occupational Therapy

The curriculum is composed of three main components: a core of occupational therapy courses to increase understanding of the theoretical bases and current issues of occupational therapy practice; a research core to develop critical problem solving, research, and writing skills; and a clinical area of emphasis such as aging or pediatrics that students design with the approval of faculty. In the clinical area, students have the opportunity to take four elective courses and develop projects and papers in addition to their theses in their areas of clinical interest. The course of study is designed for advanced study for certified occupational therapists and permits part-time enrollment.

Admission Requirements

To be admitted to the Master’s degree program students must:
1. Hold a Bachelor’s degree from an accredited institution.
2. Have completed an accredited curriculum in Occupational Therapy. Students who have not completed an accredited curriculum in occupational therapy can be admitted to the Master’s program, but must also complete the Occupational Therapy Certificate.
3. Have a minimum of 3.0 GPA average based on a 4.0 scale in upper division courses of the Bachelor’s degree, or a combined score of 1000 (verbal and quantitative parts) on the Graduate Record Examination (GRE). All students are required to take the GRE.
4. Have a basic statistics course (STA 6166 Statistical Methods I is preferred).
5. Provide three letters of reference, a curriculum vitae/resume, a summary statement of professional and educational goals and assessment of current professional activities.
6. Receive approval from the departmental graduate admissions committee.
7. International students are accepted subject to space and fiscal limitations. Students must have a Bachelor’s degree or equivalent in occupational therapy from an institution recognized in their own country as preparing students for graduate level study; academic eligibility for further study in their own country; demonstrate proficiency in the English language by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).
8. Registered Occupational Therapists are admitted continuously.

(Students who must complete the professional certificate program must apply by January 15th for Summer term admission).

Degree Requirements

The Master of Science in Occupational Therapy consists of 36 credits including a thesis. Fifteen credits of core courses must be taken in the department plus a minimum of six credit hours of thesis. A maximum of six credits of graduate course work may be transferred from other institutions, subject to the approval of the departmental graduate committee.

Required Courses: (36 credits)

Occupational Therapy Core
OTH 6009 Current Issues and Theories of Occupational Therapy 3
OTH 6265 Measurement and Assessment in Occupational Therapy 3
OTH 6215 Advanced Occupational Therapy Intervention Strategies 3
OTH 6948 Continuing Clinical Competence for Occupational Therapists 3

Research Core
STA 6166 Statistical Methods in Research I 3
OTH 5760 Current Research in Occupational Therapy 3
OTH 6970 Master’s Thesis 6

Clinical Specialty Component
Combination of Occupational Therapy and University electives in an identified area of clinical interest approved by the faculty. 12

Occupational Therapy Certificate

The certificate program can only be taken concurrently with the Master of Science in Occupational Therapy. It is designed for the student who already holds a Bachelor’s degree in another field other than Occupational Therapy. Students admitted to this program will apply to the Occupational Therapy department as graduate students.

Admission to the program for those who are not already therapists is competitive and the average GPA is over 3.0 with a GRE of at least 1000.

The Occupational Therapy Certificate Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA’s phone number is (301) 5652-AOTA. Graduates of the program will be able to sit for the national certification examination for occupational therapists administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice. Your eligibility for state licensure or certification may be at risk if you have been convicted or found guilty, regardless of adjudication which directly relates to the practice of occupational therapy or to the ability to practice occupational therapy. A plea of nolo contendere shall be considered a conviction for the purposes of this part.

Prerequisites
1. Biology and lab or Anatomy/Physiology I and II with labs 3-4
   (Students who have completed Anatomy/Physiology I and II with labs have met the prerequisites for Biology with lab, but not anatomy)
2. Physiology (3 credits) or Anatomy/Physiology I and II with labs 6
   (Students who have completed Anatomy/Physiology I and II with labs have met the prerequisites for Physiology, but not anatomy).
3. Theories of Personality 3
4. Abnormal Psychology 3
5. Human Growth and Development 3
6. Statistics (STA 6166 Statistical Methods I preferred) 3
7. Human Anatomy with lab 4
8. Neuroscience 4
Required Courses for Certification in OT on the way to the Master's degree:

(51)

OTH 5011  Theories & Practice of O.T.  3
OTH 5162  Adaptation of Human Occupation  3
OTH 5202  Occupational Development Throughout the Lifespan  4
OTH 5414  Analysis & Adaptation Human Motion  3
OTH 5414L Analysis & Adaptation Human Motion Lab  1
OTH 5427  Biomechanical & Rehab App in OT  3
OTH 5427L Biomechanical & Rehab App in OT Lab  1
OTH 3416  Mechanism of Disease & Dysfunction in OT  3
OTH 5765  Research in Clinical Practice  3
OTH 4504  Neuromotor Approaches in OT I  4
OTH 4426  Neuromotor Approaches in OT II  3
OTH 4426L Neuromotor Approaches in OT II Lab  1
OTH 5324  Clinical Intervention for Persons with Neuropsychiatric & Cognitive Disorders  4
OTH 4761  Professional Issues OT  2
OTH 5760  Current Research in O.T.  3
OTH 4850  Fieldwork II  5
OTH 4851  Fieldwork II  5

1Level II Fieldwork must be completed within 24 months of the didactic course work.

Course Descriptions

Definition of Prefix

OTH - Occupational Therapy
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

OTH 5011 Theories and Practice of Occupational Therapy (3). The theoretical foundations of occupational therapy and issues affecting professional practice. (SS)

OTH 5162 Adaptation of Human Occupation (3). Through development of an understanding of the components and nuances of human occupation, students will develop skills needed to promote optimal performance through simulation and adaptation of life tasks. (SS)

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation of client's workplace for the disabled. Prerequisite: Admission to program or Permission of the instructor (occasional elective).

OTH 5202 Occupational Development Throughout the Life Span (4). Occupation throughout the life span including social, cultural, and environmental factors on occupational competence. (F)

OTH 5213 Pediatric Seminar: School Based Occupational Therapy (3). Course designed to provide students with necessary skills and specific knowledge to practice occupational therapy effectively in the educational setting. One week fieldwork. Interdisciplinary classes with physical therapy. Prerequisite: Permission of the instructor.

OTH 5214 Occupational Therapist Role in Family Centered Care (3). Course designed to orient O.T. students to family-centered care issues, such as legislation, cultural issues, family systems and empowerment strategies, in order to prepare them for clinical practice. Prerequisite: Permission of the instructor.

OTH 5324 Clinical Intervention for Persons with Neuropsychiatric & Cognitive Disorders (4). Develops clinical reasoning abilities in the selection of assessment and treatment strategies for individuals with cognitive and neuropsychiatric disorders. (S)

OTH 5326 Psychiatric O.T.: Contemporary Theory and Practice (3). Examination of contemporary knowledge relevant to the theory and practice of O.T. in psychiatry. Prerequisite: Admission to Program or Permission of the instructor.

OTH 5345 Occupational Therapy Program Development in Psychiatry (3). Seminar discussion and practical experience in OT programming in psychiatry. Prerequisite: Admission to program or Permission of the instructor.

OTH 5405C Analysis of Therapeutic Procedures in Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theory based assessment problem identification and treatment for the physically disabled adult.

OTH 5406 Sensory Problems and Therapeutic Implications (3). An in-depth study of sensory problems and the implications for therapy. A variety of patient populations and clinical applications will be discussed. Prerequisite: Graduate standing or Permission of the instructor (occasional elective).

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to the program or Permission of the instructor (occasional elective).

OTH 5414 Analysis & Adaptation in Human Motion (3). Presents anatomical, physiological, and biomechanical principles of human motion & biomechanical frame of reference in adaption with biomechanical problems. (F)

OTH 5414L Analysis & Adaptation in Human Motion Lab (1). Laboratory to accompany OTH 5414, Analysis & Adaptation of Human Motion in OT. (F)

OTH 5427 Biomechanics & Rehabilitative Approaches in OT (3). Biomechanics and rehabilitative frames of reference as they focus on body parts and occupational performance.

OTH 5427L Biomechanics & Rehabilitative Approaches in OT Lab (1). Lab to accompany OTH 5427 Biomechanics & Rehabilitative Approaches.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3). In depth instruction in approaches to the neurologically impaired patient. Emphasis will be on dysfunction due to stroke or head injury. Prerequisite: OTH 4422 or equivalent.

OTH 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit. Prerequisite: Majors only.

OTH 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTH 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly.
Prerequisite: Aging course or work experience with elderly, Permission of the instructor.

OTH 5630 OT Assessment of the Elderly (3). Study of assessment techniques appropriate for OT evaluation of the elderly. Prerequisite: Admission to program.

OTH 5751 Rehabilitation Seminar in Occupational Therapy (3). A seminar designed to gain an understanding of OT clinical practice areas in rehabilitation. Various clinicians will present their perspectives of organizational structure, populations served, evaluation and treatment approaches. Prerequisite: Permission of the instructor.

OTH 5760 Current Research in Occupational Therapy (3). Review of statistical concepts and research procedures in the clinical setting, with in-depth study of the current status of research in occupational therapy. (S)

OTH 5764 Research in a Clinical Specialty (3). Participation in ongoing research of faculty members in clinical specialty area. Prerequisite: Permission of the instructor. (SS)

OTH 5765 Research in Clinical Practice (3). Students identify a research topic and questions based on observation of clinical problems during field visits.

OTH 5805 Service Learning in Health (3). Student's learning is centered on a community service experience which meets specific principles of service learning. Prerequisite: Admission to graduate study in OT. (Other graduate students or graduate certificate students in aging admitted by Permission of the instructor.)

OTH 5905 Independent Study (Variable Credit). (F,S,SS)

OTH 5934 Evaluation and Treatment of Hand Dysfunction (3). Seminar in current issues related to the assessment and treatment of common injuries of the hand (occasional elective).

OTH 5938 O.T. Theoretical Perspectives in Health Therapy (3). This seminar course is designed to examine the OT's role in the prevention of both physical and mental diseases. It will demonstrate and discuss how OT foundational under-pinnings provide the tools therapists need to guide patients and clients toward lifestyle behaviors which can prevent or delay disease onset and foster functional adaptation. Prerequisite: Permission of the instructor.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program. (F)

OTH 6265 Measurement and Assessment in Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisite: Admission to program or Permission of the instructor.

OTH 6507 Occupational Therapy for Occupationally Dysfunctional Children & Adolescents. Exploration of factors leading to successful adaptation to occupational roles, are explored with particular emphasis on the relationship between these factors and Occupational Therapy theory. Prerequisite: Permission of the instructor.

OTH 6538 Advanced Methods in Pediatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 6542 Role of the Occupational Therapist in the School System: A Consultation Model (3). Course introduces consultation as a viable service provision option to enable occupational therapists to create more effective living and learning environments on behalf of children. Prerequisite: Permission of the instructor.

OTH 6548 Advanced Methods in Pediatric Occupational Therapy (3). Advanced application of theory and research in occupational therapy. Includes neurodevelopmental treatment approaches, neonates through adolescents. Prerequisite: OTH 6538.

OTH 6937 ADA Workplace Accommodations of Persons with Disabilities (3). Interdisciplinary course designed to bring together students of both rehabilitation and business/management disciplines to develop strategies to implement the Title 1-Workplace provision of the Americans with Disabilities Act. (ADA)

OTH 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project.

OTH 6970 Master's Thesis (1-6). Supervised research on a research project submitted in partial fulfillment of Master's degree requirement. Prerequisite: Permission of major professor. (F,S,SS)
Physical Therapy

Helen Z. Cornely, Assistant Professor and Chairperson
Steven Bernstein, Clinical Assistant Professor
Leonard Elbaum, Associate Professor
Cynthia Gonzalez, Visiting Professor
Lori Gusman, Clinical Assistant Professor & Academic Clinical Coordinator
Awilda R. Haskins, Associate Professor
Joyce Maring, Clinical Assistant Professor
Colleen Rose-St. Prix, Associate Professor
Neva Sanchez, Assistant Professor

Advanced Master of Science in Physical Therapy

Physical Therapy is a health profession whose primary purpose is the promotion of optimal human health and function through the application of scientific principles to prevent, identify, assess, correct or alleviate acute or prolonged movement dysfunction. Physical therapists examine, treat and instruct individuals with physical disability, movement dysfunctions, bodily malfunctions, and pain from injury, disease and any other physical or mental conditions. Physical therapists administer, interpret and evaluate tests and measurements of body functions and structures; plan, administer, evaluate, and modify treatment and instruction, including the use of physical measures, activities, and devices for preventive and therapeutic purposes; and provide consultative, educational and other advisory services for the purpose of reducing the incidence and severity of physical disability, movement dysfunction, bodily malfunction and pain.

The Department of Physical Therapy offers a graduate program with two tracks: Masters of Science, an entry level program into the profession. The second track leads to a Master of Science in Physical Therapy and is designed for physical therapists wishing to pursue an advanced degree.

The advanced Master of Science in Physical Therapy is designed to enable therapists to pursue specialty practice area advanced education to enhance the research, administrative and/or educational knowledge and skills of physical therapists.

The curriculum is comprised of three basic components: physical therapy courses designed to increase understanding of the theoretical basis and current issues of physical therapy practice; a research sequence designed to improve the physical therapist's ability to engage in research; and graduate level elective courses which will allow the physical therapist to obtain additional skills and knowledge in the areas of gerontology, health services administration, education, or other approved area of interest.

The program permits part-time as well as full-time study. The physical therapist who elects to complete the program on a full-time basis can complete the physical therapy course work in four full semesters. All degree requirements must be completed within six years of the initial admission into the program.

The goals of the program are to:
1. Provide physical therapists with skills to enable them to function effectively in specialized clinical settings, research programs, educational programs and/or supervisory positions.
2. Prepare individuals who will contribute to the promotion of health in the community through the application of scientific principles of human movement to include identification, prevention, assessment and correction of acute or chronic movement dysfunction.
3. Provide physical therapists whose skills and knowledge are commensurate with the expanding need for health care services in South Florida, as well as the rest of the state, nation and international community.

Admission Requirements

Applicants to the program must meet the minimum standards set forth by the Florida Board of Regents and the University in addition to the Departmental requirements to include:
1. Bachelor's degree or the equivalent from an accredited institution.
2. Graduate of an accredited entry level physical therapy program.
3. One official copy of all college/university transcripts.
4. A minimum grade point average of 3.0 based on a 4.0 scale (upper division) or a combined score of 1000 (verbal and quantitative parts) on the Graduate Record Exam (GRE).
5. A minimum of three letters of recommendation to include one from each of the following persons: a college or university professor; a physical therapist; a current or past employer.
7. Submission of a summary statement of professional and educational goals and assessment of current professional activities (attached to resume).
8. Licensed to practice physical therapy in the state of Florida or other jurisdiction.
9. Approval from the departmental graduate admissions committee.
10. An applicant who fails to meet the regular admissions criteria may apply to be considered under the Board of Regents’ 10% waiver policy (up to 10% of graduate students can be admitted in any one year as exceptions to the regular policy).
11. Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned. If the applicant's native language is not English, the applicant must demonstrate proficiency in the English language by presenting a score of 550 or higher on the Test of English as a Foreign Language (TOEFL).

Degree Requirements

The Master of Science in Physical Therapy consists of 36 credits including thesis. Fifteen credits of graduate level physical therapy courses and an advanced physical therapy research course must be taken. Additional required courses include a minimum of six graduate credits of out-of-department electives, an approved graduate level research course, and a graduate level statistics course. The out-of-department electives will be determined by the student in conjunction with his or her physical therapy advisor.

A maximum of six credits of graduate work may be transferred from other institutions, provided they are approved by the departmental graduate committee and are in compliance with the University's graduate policies and procedures.

A maximum of 12 credits earned as a non-degree seeking student at the University may be accepted by the program, provided they are approved by the Departmental graduate committee and are in compliance with the University's graduate policies and procedures.
Required Courses: (36)
All students accepted to the graduate program will develop individualized programs of study. The program of study must be approved by the physical therapy advisor and by the departmental graduate committee.

Physical Therapy Courses
Approved Physical Therapy courses 15

Research Component
STA 5126 Fundamentals of Design of Experiments 3 or
STA 6166 Statistical Methods in Research 1 3
PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design 3
PHT 6971 Master's Thesis 6

Electives
Approved out-of-department graduate level electives 6
Approved out-of-department graduate level research course 3

Rehabilitation Track
Physical Therapy Courses
PHT 5639 PT Administrative Techniques and Methods 3
PHT 6718 Theories in Neurorehabilitation 3
PHT 6401 Client-Centered Rehabilitation 3
PHT 6705 Long Term Rehabilitation 3
PHT 6706 Information & Communication Technology in Rehabilitation 3

Research Component
STA 6166 Statistical methods in Research 1 3
PHT 6625 Advanced PT Clinical Research Methodologies and Design 3
PHY 6970 Master's Project 6

Electives (9 credits)
HSC 4103 Healthy Lifestyles through Wellness 3
HSC 4579 Wellness in Women 3
HUN 4403 Life cycle Nutrition 3
OTH 5440 Treatment Approaches for the Neurologically Impaired 3
PHC 6501 Health Promotion Communication and Design 3
PHC 6503 Community Organization for Health Promotion 3
PHI 6990 Medical Ethics 3
Total Credits Towards Degree (36)

Course Descriptions
Definition of Prefixes
PHT - Physical Therapy

PHT 4233 Physical Therapy Management of the Pediatric Patient (3). Application of various exercise techniques to the treatment of individuals with neurodevelopmental deficits. Prerequisite: Majors only. Corequisite: PHT 4233L. (S)

PHT 4233L Physical Therapy Management of the Pediatric Patient Lab (1). Laboratory and field experiences will be utilized for practice of neurorehabilitation techniques. Corequisite: PHT 4233. (S)

PHT 5045 Applied Educational Theory in Physical Therapy (3) The application of teaching and learning principles to Physical Therapy patient education, student clinical education, and continuing education. A variety of teaching methodologies will be practiced by participants.

PHT 5328 Advanced Pediatric Physical Therapy Assessment (3). Analysis of assessment tools in relation to treatment. Competence in administration of appropriate tools will be required at end of course. Prerequisites: Either STA 5126 or STA 6166 and Permission of the instructor.

PHT 5335 Physical Therapy in Obstetrics/Gynecology (3). This course will explore the role of the therapist in the field of obstetrics and provide an introduction to gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisite: Permission of the instructor.

PHT 5336 Theories in Cardiopulmonary Rehabilitation (3). This course is designed to provide students with applied theory in the clinical and physical therapy management of medical and surgical cardiac and respiratory conditions. Prerequisite: Permission of the instructor.

PHT 5373 Advanced Therapy Assessment of the Elderly (3). The study of assessment tools used in geriatric rehabilitation in relation to appropriate intervention strategies and research findings. Prerequisites: Appropriate adult motor development course/permission of major advisor.

PHT 5515 Therapeutic Services for Physically Impaired and Mentally Retarded Students (3). Lecture, lab, and group work to develop skills of education and therapy professionals for implementation with disabled children in schools. Prerequisite: Permission of major advisor or instructor.

PHT 5639 Physical Therapy Administrative Techniques and Methods (3). Provides an in-depth view of the health care industry and its relationship to the P.T. profession. Management techniques in all areas will be presented with emphasis on planning and financial management.

PHT 5815 Clerkship in Physical Therapy (2). Two-week full-time clinical experience combined with independent study of questionnaire or issue in clinical Physical Therapy. Prerequisites: Permission of major advisor.

PHT 5823 Internship (3). Supervised, full-time clinical experience, designed to offer the student experience in patient evaluation and care, particularly in the areas of rehabilitation and neurorehabilitation. Prerequisite: PHT 4933.

PHT 6009 Differential Diagnosis in Physical Therapy (3). This course is designed to enable the physical therapy student to engage in the diagnostic process to establish differential diagnoses for patients across the lifespan. Prerequisite: PHT 4300.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic systems, or both. Prerequisite: Permission of major advisor.

PHT 6145 Motor Development: Adult Through Geriatrics (3). A study of motor development of the adult through old age. Application of developmental principles to physical therapy practice and research. Prerequisite: Permission of major advisor.

PHT 6165 Applied Clinical Neuroanatomy (3). Examines correlation of sites of pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of treatment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical...
disabilities. Energy expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6239 Developmental Disabilities in Adulthood (3). A study of adults with developmental disabilities; including aspects of societal perspectives, political and public policy regarding the handicapped, and current theories in treatment of the handicapped adult population. Prerequisite: Permission of major advisor and instructor.

PHT 6325 Advanced Clinical Pediatric Physical Therapy (3). The study of theory, treatment and current clinical research in pediatric physical therapy practice. Prerequisite: Permission of major advisor and PHT 5320.

PHT 6326 Physical Therapy for At-Risk Infants (3). This course will explore current PT practice and research for at-risk infants in NICU, NCCU, and follow-up programs. Includes aspects of physiological and behavioral monitoring indicators for physical therapy intervention. Prerequisite: PT graduate students.

PHT 6365 Theories in Sports Physical Therapy (3). Study and exploration of relevant issues in sports physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6401 Client-Centered Rehabilitation (3). Utilizes small and large group discussion, multimedia presentations, readings and projects to explore issues of communication, cultural diversity and client-centered rehabilitation.

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6705 Long Term Rehabilitation for Persons with Chronic Disease and Disability (3). Applying long term rehabilitation for persons with chronic disease and disability with focus on the continuum of fitness, health and rehabilitation throughout the life span. Prerequisite: PHT 4711.

PHT 6706 Information and Communication Technology in Rehabilitation (3). An introductory course that focuses on computer rehabilitation technology for clinical practices, research and education, and devices that assist the quality of patient activities. Prerequisite: Student should have a basic understanding of personal computers.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines theoretical bases of evaluation and treatment of the neuro-patient; includes exploration of the relationship of motor control and motor learning to current neurologic rehabilitation. Prerequisite: Permission of major advisor.

PHT 6725 Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions. Prerequisite: Permission of major advisor.

PHT 6824 Internship I (3). Supervised full-time clinical experience with emphasis on: evidence-based practice; clinical decision making; administration; educational activities; outcomes assessment; differential diagnosis; and consultation. Prerequisite: PHT 6009.

PHT 6825 Internship II (3). Continuation of PHT 6824, Internship I. Prerequisite: PHT 6824.

PHT 6826 Internship III (3). Continuation of PHT 6825, Internship II. Prerequisite: PHT 6825.

PHT 6845 Resources and Skills for the PT/PI student (3). This course focuses on the interdisciplinary team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Corequisite: Graduate OT, PT, or Education students.

PHT 6905 Independent Study (1-3). Individually determined, research-oriented, in-depth study of a physical therapy issue. An independent study contract must be approved by the instructor. Prerequisite: Permission of major advisor and instructor. Must be fully admitted to the graduate program.

PHT 6971 Master's Thesis (1-3). Supervised research which demonstrates the application of analytical, conceptual and technical skills to a specific physical therapy problem. Prerequisite: Permission of major advisor.
Public Health

H. Virginia McCoy, Associate Professor and Chairperson
William W. Darrow, Professor
Javier Gasana, Assistant Professor
WayWay M Hlaing, Assistant Professor

William J. Keppler, Professor
Joseph Patterson, Professor Emeritus
Richard T. Patton, Clinical Assistant Professor, Field Experience Coordinator, and Academic Advisor
Robert R. Stempel, Associate Professor

Master of Public Health

The Master of Public Health (MPH) is accredited by the Council on Education for Public Health.

The MPH program is designed to provide fundamental skills in core areas of Public Health and to serve those seeking a broader base of knowledge to improve environmental and personal health services for the community.

The mission of the Department of Public Health at Florida International University is to educate, train, and serve the interests of Public Health by:
- educating and training health professionals;
- promoting health maintenance and disease prevention;
- conducting research and disseminating useful information;
- serving the health needs of minorities, the underserved and the people of South Florida;
- emphasizing our geographical location to the Caribbean and Latin America.

The MPH Program is an affiliated program offered with the Department of Epidemiology and Public Health at the University of Miami’s School of Medicine.

Admission Requirements

Applicants must meet the University’s general graduate admission requirements:
1. A Bachelor’s degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level, and submit a score of 550 on the TOEFL.
2. A minimum 3.0 GPA (on the last 60 undergraduate hours), or a combined quantitative and verbal score of 1000 on the GRE taken within the last five years; or a score of 500 on the GMAT; or a graduate degree from an accredited institution. However, all applicants, regardless of previous GPA, are required to submit the appropriate aptitude test scores. In addition, applicants are required to 1) submit three letters of recommendation from persons in the field of public health and the academic major at the institution most recently attended; 2) submit a written personal statement as described in the application packet provided by the Department of Public Health; 3) provide a current curriculum vitae/resume.

Students with diverse backgrounds are encouraged to apply; relevant work experience will be given strong consideration.

Computer Requirements

Entering students must demonstrate basic computer literacy, either through course work or by demonstration to the advisor. Students are expected to show that they can load and run software programs, and have reasonable proficiency in word processing. Two core courses, PHC 6715 Survey Research in Public Health and PHC 6050 Public Health Statistics, require use of SPSS. This requirement will assure that students are prepared for these and other courses which require additional computer skills needed in public health practice.

Masters Culmination

All MPH students must complete either a field-training experience or Master’s Research Project as general core course requirement.

Field Experience Option

This option is recommended for all students with less than three years of experience in a health-oriented program. Field experience gives the student the opportunity to gain practical experience under preceptor-guided supervision in public health. Students should consult the Field Experience Coordinator for further information.

Research Options

These options are recommended for students entering the program with three or more years of experience in a health-related program.

Masters Research Project

The research project affords the opportunity to conduct research on a specific public health problem or topic in either a community or institutional setting. MPH students who select the research project must choose a faculty member to direct their research. The advisor and the student may identify other resource persons to serve in an advisory capacity for the research project.

Masters Thesis

The thesis option provides students the opportunity to conduct original research on a public health problem or topic and to report this in a scholarly manuscript. Students who select this option must choose a major professor to act as the chair of their thesis committee and two additional members. Before beginning work on a thesis, student must present a proposal to their committee for approval. The committee will direct and supervise the work carried out by the student.

Degree Requirements

Students must complete at least 45 semester hours of approved course work with a minimum of a ‘B’ average. All work applicable to the degree must be completed within six years immediately preceding the awarding of the Master’s degree.

Program of Study

The course of study is designed to allow students to concentrate in one of four areas:
- Environmental Health Management
- Epidemiology
- Health Promotion and Prevention
- Public Health Policy and Administration

Course work in each area includes:
- General Core Courses (18 semester hours); Supervised Field Experience or Master’s Research Project (3-6 semester hours); Concentration Core (12-15 semester hours); Concentration Electives (6-9 semester hours); General Electives (3-6 semester hours).

General Core Courses: (18)

PHC 6000 Introduction to Public Health Epidemiology 3
PHC 6050 Public Health Statistics 3
PHC 6315 Public Health and Environmental Management 3

PHC 6410 Health Behavior and Public Health 3
PHC 6500 Foundations of Public Health Practice 3
PHC 6715 Survey Research in Public Health 3

Field Experience or Research:
(3-6)

PHC 6945 Supervised Field Placement 3-6
Required Courses: (12)
PHC 6004 Injury Epidemiology and Prevention 3
PHC 6009 AIDS Epidemiology and Control 3
PHC 6539 Health Demography 3

One 3-credit course taken with our affiliated program.

Concentration Electives: (9)
PHC 6004 Injury Epidemiology and Prevention 3
PHC 6009 AIDS Epidemiology and Control 3
PHC 6012 Current Research in Epidemiology 3
PHC 6014 Behavioral Epidemiology 3
PHC 6015 Applied Epidemiology 3
PHC 6115 Environmental Health 3
PHC 6443 Ethical Issues in Public Health 3
PHC 6503 Community Organization for Health Promotion 3
PHC 6520 Public Health Aspects of Foodborne Disease 3
PHC 6530 Principles of Maternal and Child Health 3
PHC 6538 Genetic Issues in Public Health 3
PHC 6907 Independent Study: Public Health 1-3

General Electives (3)

Health Promotion Concentration
This concentration area is concerned with personal and public health lifestyles, identification of risk factors and behavioral change strategies that promote positive health behaviors of the individual, family and community.

It prepares individuals for leadership positions in the development and implementation of health promotion/health education programs in community health agencies, worksites, schools, hospitals, and other health care settings.

Required Courses: (12)
PHC 6501 Health Promotion Communication Theory and Design 3
PHC 6503 Community Organization for Health Promotion 3
PHC 6520 Public Health Aspects of Foodborne Diseases 3
PHC 6539 Health Demography 3
ENV 5105 Air Quality Management 3
ENV 5356 Solid Wastes Management 3
ENV 5666 Water Quality Management 3
ENV 5936 Topics in Environmental Toxicology 3

Epidemiology Concentration
Epidemiology is the study of the distribution of diseases or health conditions in the population (community) and the factors determining this distribution.
issues associated with the AIDS epidemic and the policies and programs designed to prevent HIV transmission.

PHC 5409 Public Health Behavior Change Theory and Practice (3). A course for health promotion practitioners who lack formal training in behavior change foundations and strategies. The course emphasizes applications to practical development of health promotion interventions.

PHC 5415 Public Health in Minority/Urban Population (3). Covers the scope of Public Health Issues related to minority and urban populations with an emphasis on health care status, utilization of the health care system and expenditures.

PHC 6000 Introduction to Public Health Epidemiology (3). Introduction to the study of the distribution, determinants, and measurement of health and disease in populations, including study methods and their application to specific diseases and conditions. (F,S)

PHC 6001 Environmental and Occupational Epidemiology (3). This course covers outbreaks; cluster analysis; cross-sectional, case-control, cohort, ecological and time series designs; surveillance programs; environmental cancer; reproductive hazards, biological monitoring and biomarkers. Prerequisite: PHC 6315 and PHC 6000.

PHC 6004 Injury Epidemiology and Prevention (3). Analyzes the impact and extent of injuries as a public health problem. Issues of prevention, sources of data, environment, social and occupational aspects are included in an epidemiological approach. Prerequisite: PHC 6000. (SS)

PHC 6009 AIDS Epidemiology and Control (3). Reviews the epidemiology, virology, immunology, and clinical aspects of HIV, and also examines its impact upon risk groups and the responses of society to the epidemic. (S)

PHC 6012 Current Research in Epidemiology (3). This course will examine current areas of research in epidemiology and bring students into contact with researchers in various fields. Prerequisite: PHC 6000, PHC 6050. (S)

PHC 6014 Behavioral Epidemiology (3). This course will examine human behaviors as determinants of health and disease, methods of exploring these relationships, and ways of altering risk behaviors. Prerequisite: PHC 6000.

PHC 6015 Epidemiological Methods (3). This course will examine epidemiological methods emphasizing the actual conduct of studies. Students will undertake a simulated research project. Prerequisite: PHC 6000, PHC 6050. (S)

PHC 6016 Social Epidemiology, Health Promotion and Policy (3). Explores the epidemiological aspects of health and medical care of the poor and disadvantaged population groups. Emphasizes on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: PHC 6000. (F)

PHC 6050 Public Health Statistics (3). An introduction to the basic principles of inferential statistics as applied to public health. The course includes those components of biometry routinely used in public health. Prerequisite: Undergraduate course in statistics. Open only to graduate students in Public Health. (F,S)

PHC 6111 Primary Health Care Strategies (3). Examines the rationale, planning and implementation of community-oriented primary health care. Emphasizes primary care as an integral part of the health care system and an essential part of public health. Prerequisites: PHC 6500 or Permission of the instructor. (SS)

PHC 6112 Health Risk Appraisal (3). Health promotion technique designed for identifying personal health risks and the use of these methodologies for inducing behavioral change. Evaluation of the effectiveness of various health appraisal instruments. Prerequisite: PHC 6000 & PHC 6050. (F)

PHC 6115 International Public Health (3). This course describes international differences in the distribution and determinants of disease and health, and examines interventions aimed at improving health status. (F)

PHC 6150 Public Health Policy Analysis and Formulation (3). Strategies for formulating public health policy; political processes; resource allocation, organization, and participation. Examination of current policy issues and efforts to effect change. (F)

PHC 6160 Public Health Budgeting and Financial Management (3). This course is designed for public health practitioners. Emphasis will be placed on models necessary to develop operational budgets in the public sector of health care and to anticipate financial anomalies.

PHC 6307 Environmental Health Monitoring (3). Surveys available mechanisms utilized by public health and environmental agencies to monitor levels of pollution, environmental quality, and change in environmental conditions which impact human health. Prerequisite: PHC 6000, PHC 6050, PHC 6315. (SS)

PHC 6311 Environmental Health Risk Assessment (3). This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach. Prerequisite: PHC 6315. (S)

PHC 6315 Public Health and Environmental Management (3). An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and surveillance responsibilities authorized in the public sector. (F,S)

PHC 6355 Occupational Health and Safety (3). The course covers recognition of occupational hazards, injuries and diseases and the principles of occupational safety including safety regulations and standards and models of accident causation. Prerequisite: PHC 6315.

PHC 6356 Fundamentals of Industrial Hygiene (3). The course covers recognition, evaluation, and control of chemical biological and physical agents in the workplace; application to exposure, control measures, and standard setting procedures. Prerequisite: PHC 6315.

PHC 6410 Health Behavior and Public Health (3). The overall goal of this course is to introduce the student to the learning and behavioral science theories that provide the framework for the practice of health promotion and public health. Prerequisites: Public Health major or Permission of the instructor. (F,S)
PHC 6425 Legal and Regulatory Aspects of Environmental Health (3). The application of law as it relates to the environment and human health. Legal process and rule-making; cost-benefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: PHC 6000, PHC 6050 and PHC 6315. (S)

PHC 6443 Ethical Issues in Public Health (3). The role of Bioethics on Public Health Issues

PHC 6500 Foundations of Public Health Practice (3). Philosophy, nature, and scope of public health; organization and administration; principles of disease prevention and health promotion; current issues and trends; socioeconomic and political forces. Prerequisite: Public Health major or Permission of the instructor. (F,S,SS)

PHC 6501 Health Promotion Communication Theory and Design (3). Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisite: Health Promotion Concentration or by Permission of the instructor. (F)

PHC 6502 Health Promotion in the Workplace (3). Emphasis is on program design, management, and evaluation of health promotion in industry. Current issues on health assessment, fitness, and emotional stress in the workplace will be considered. Prerequisite: Health Promotion Concentration or Permission of the instructor. (SS)

PHC 6503 Community Organization for Health Promotion (3). Emphasis is on the diagnosis of community health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or Permission of the instructor. (F)

PHC 6504 Introduction to Public Health Education and Wellness (3). Primarily intended to introduce graduate students to concepts and principles underlying the use of Public Health and Behavioral Strategies to positively influence behavioral patterns. Prerequisites: Public Health major or Permission of the instructor.

PHC 6520 Public Health Aspects of Foodborne Diseases (3). Examines the scope of the foodborne disease problem; factors that contribute to outbreak of foodborne disease; strategies for the prevention and control of these diseases are explored. Prerequisites: PHC 6000, PHC 6050, and PHC 6315. (F)

PHC 6530 Principles of Maternal and Child Health (3). Covers the scope of the field of maternal and child health with emphasis on the needs of infants, children, youth, women and families in the reproductive cycle and programs designed to meet these needs. Prerequisite: Public Health major or Permission of the instructor. (S)

PHC 6538 Genetic Issues in Public Health (3). Genetic issues and topics that impact on Public Health will be covered such as HW gene frequencies and HUGO. A public health perspective with a field of study.

PHC 6539 Health Demography (3). The study of basic population structure, composition, trends and relationship to health status. Implications of demographic trends, policies for public health; population growth, immigration, infant mortality. Prerequisites: PHC 6050 or Permission of the instructor. (S)

PHC 6580 Contemporary Issues in Health Promotion (3). Current problems and findings in health promotion content areas such as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: PHC 6000 and PHC 6050. (SS)

PHC 6585 Health Promotion in Clinical Settings (3). Analysis of the role, methods, and techniques of health promotion and patient education pertaining to hospitals, clinics, and other ambulatory health services. Prerequisites: PHC 6000 and PHC 6050. (S)

PHC 6589 Health Promotion in Institutional Settings (3). This course will investigate the role, methods and techniques used to promote health in diverse settings such as clinic and community agencies, schools, universities and workplaces.

PHC 6715 Survey Research in Public Health (3). Health survey design, implementation and analysis, and interpretation of data. Emphasis on practical aspects of conducting health surveys. Study of existing health surveys. Prerequisites: PHC 6000 and PHC 6050. (F,S)

PHC 6750 Program Development and Evaluation in Health Promotion (3). Principles and procedures in health promotion program development and evaluation. Emphasis on needs assessment, planning models, evaluation designs, data collection, analysis and reporting. Prerequisites: PHC 6000 and PHC 6050. (F)

PHC 6907 Independent Study: Public Health (1-3). Allows student investigations of special topics and issues utilizing literature searches, analysis, or active performance in public health settings under the direction of faculty supervision. Prerequisite: Permission of the faculty advisor.

PHC 6945 Supervised Field Experience in Public Health (3). Preceptor guided experience in a public health organization. Experience will include orientation; observation; and participation in the aspects of the agency's program. Prerequisite: Permission of the faculty advisor.

PHC 6977 Master's Research Project (3). This course provides the student with an opportunity to explore in depth a specific topic or issue of interest in public health.

PHC 6xxx Masters Thesis (1-6). Supervised research on an original public health problem or topic submitted in partial fulfillment of master's degree requirement. Prerequisite: Permission of major professor. (F,S,SS)


**Graduate Certificate Program in Health Promotion**

The Graduate Certificate Program seeks to provide graduate level instruction in health promotion to non-graduate-degreed practitioners. Students will gain a scientific foundation for designing, conducting, and evaluating health promotion programs in public health, while at the same time benefit from numerous opportunities for practical application.
Program Requirements
The Graduate Certificate Program requires completion of 15 graduate credits. The student must demonstrate proficiency in health promotion design, implementation, and evaluation. If students are proficient in any one area covered by the required courses, alternative courses may be selected. Substitution of courses must be approved by the advisor. A graduate statistics course (biostatistics, social statistics) is a prerequisite.

Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment stipulations.

Required Courses*: (15)

PHC 6504 Introduction to Health Education and Wellness 3
PHC 6409 Public Health Behavior Change Theory and Practice 3
PHC 6501 Health Promotion Communication Theory and Design 3
PHC 6750 Program Development and Evaluation in Health Promotion 3
PHC 6589 Health Promotion in Institutional Settings 3

*If students are proficient in any one area covered by the required courses, the following alternative courses may be substituted (6 credits maximum):

PHC 6112 Health Risk Appraisal
PHC 7702 Advanced Measurement in Public Health
PHC 6531L Environmental Health Risk Assessment
PHC 6004 Injury Epidemiology and Prevention
PHC 6520 Public Health Aspects of Foodborne Diseases
PHC 6580 Contemporary Issues in Health Promotion
PHC 6530 Principles of Maternal and Child Health
PHC 6016 Social Epidemiology, Health Promotion, and Policy
PHC 5415 Public Health in Minority/Urban Populations

Admission Requirements
Applicants must hold a bachelor’s degree or equivalent from an accredited college or university.

Graduation (completion) Requirements
Completion of 15 graduate credits with an overall ‘B’ average.
Communication Sciences and Disorders

Lemmietta G. McNeilly, Associate Professor and Chairperson
Donald R. Fuller, Associate Professor

Communication Sciences and Disorders (CSD) is one of the departments in the School of Health. This department offers a master's degree program in speech language pathology. Additionally, seven undergraduate prerequisite courses are offered for interested applicants with a bachelor's degree from a different discipline. The unique focus of the CSD department is one of Cultural and Linguistic Diversity (CLD). The goal of the department is to educate CLD professionals to meet the needs of multicultural populations of individuals with Communication Disorders. Students matriculating in the program will benefit from the infusion of CLD throughout the curriculum. The program allows full time and part time enrollment. All degree requirements need to be completed within six years from the initial date of enrollment. Students will have opportunities to receive clinical education from a variety of clinical settings in the Miami Metropolitan area including hospitals, schools, private practices and community based clinics. They will also engage in research projects with faculty members. A description of the admission requirements and description of masters programs follow.

Admission Criteria

Applicants for admission to the master's degree program must meet the current FIU minimum standards for admission to graduate school.
1. 3.0 grade point average last 60 hours of undergraduate study or
2. GRE score of 1000 (verbal and quantitative sections combined)
3. TOEFL score of 550 for foreign students whose primary language is other than English

Additionally, the CSD department requires the following for admission to the graduate program:
1. FIU Graduate School application
2. Letter of interest summarizing interests
3. Two letters of recommendation from persons with knowledge of academic performance
4. Bachelor's degree in Communication Sciences and Disorders or completion of the 7 required prerequisite courses.

Requirements for students without a bachelor's degree in Communication Disorders

The department of Communication Sciences and Disorders requires an individual applying for the master's degree to hold a bachelor's degree in communication disorders or its equivalent. An applicant's undergraduate background influences the time necessary to complete the graduate degree, as there are 7 prerequisite courses required for entrance to the graduate program. Interested individuals should contact the department prior to completing an application for admission. The following courses or their equivalents are required for all interested persons without an undergraduate degree in communication disorders:

- SPA 4xxx Principles of Phonetics 3
- SPA 4xxx Survey of Communication Disorders 3
- SPA 4xxx Anatomy & Physiology of Speech & Hearing 3
- SPA 4xxx Introduction to Normal Speech & Language Development 3
- SPA 4xxx Speech & Hearing Science 3
- SPA 4xxx Clinical Management in Communication Disorders 3
- SPA 4xxx Introduction to Audiology 3

Master's Degree in Speech Language Pathology

The newly developed Master’s degree in Speech-Language Pathology consists of 56-60 graduate hours. The specific credit hours required will depend upon student's selection of thesis versus non-thesis options. Nine credit hours of the program are in one of several specialization tracks that the student will select. Current tracks emphasize multicultural, educational, or gerontological aspects of communication disorders. Each track requires an additional credit hour earned for a research project related to the track selected by the applicant. The amount of time required to complete the program of study will vary. Full time enrollment will require four semesters and two summers to complete the program of study. The maximum of six years for individuals enrolled part time is allowed. Student progress will be monitored each semester by departmental faculty.

Clinical practicum hours will be obtained in a variety of community settings. All students will take a minimum of three semesters of clinical practicum in three different settings. A minimum of 375 clock hours is required for graduation. Passage of comprehensive exams is required for degree completion.

The program of study provides students with theoretical and clinical education to develop the competencies needed to practice as a speech language pathologist. Upon completion of the master's degree, the graduate will have met all academic and practicum requirements for the certificate of clinical competence awarded by the American Speech-Language-Hearing Association. All students will be advised to take the PRAXIS (600 passing score) during the last year enrolled in the program. (Program candidacy status pending American Speech-Language-Hearing Association, Council of Academic Accreditation at the time of printing). Courses are taught by knowledgeable faculty with expertise in the areas of teaching.

Program of Study

Graduate Core Health Sciences Courses (6)

- HSC xxxx Ethical & Legal Aspects of Health Care Professions 3
- HSC xxxx Research Methodology 3

Core Courses in Speech Language Pathology (44)

- SPA 5132 Technological Innovations in Speech-Language-Hearing Sciences 2
- SPA 5553 Differential Diagnosis of Communicative Disorders 3

Speech (17)

- SPA 5401 Phonological Disorders 3
- SPA 5225 Fluency Disorders 3
- SPA 5216 Vocal and Velopharyngeal Disorders 3
- SPA 5232 Neuromotor Communication Disorders 3
- SPA 6559 Augmentative/Alternative Communication 3
- SPA 6565 Dysphagia 2
Language (10)
SPA 5473 Cultural & Linguistic Diversity (CRLD) in Communication Disorders 3
SPA 5403 Language Learning in Children 3
SPA 6410 Aphasia and Related Disorders 3

Audiology (3)
SPA 6322 Aural Habilitation and Rehabilitation 3

Clinical Practicum (9)
SPA 5500 Basic Clinical Practicum 3
SPA 5502 Intermediate Clinical Practicum 3
SPA 6505 Advanced Clinical Practicum 3

Research [Thesis—6 credit] or Specialty Track [Non-Thesis—10 credits]

Students are required to select a thesis or non-thesis options as partial fulfillment of the requirements for the master's degree. For the thesis option students will enroll in six hours of thesis (SPA 6971) credits. The non-thesis option (10 credits) mandates nine credits of coursework in one of the specialization tracks and one credit for a Master's Project (SPA 6930).

Specialty Track Requirements

Multicultural Communication Disorders
SPA 6005 Assessing the Bilingual Child with Communication Disorders 3
SPA 6406 Bilingual Language Acquisition 3
MHS 6428 Cross-cultural Counseling 3
SPA 6930 Master's Project 1

Educational
LIN 5732 Speech Errors and Linguistic Knowledge 3
EEX 6019 Autism 3
SPS 6199 Family School Consultation and Collaboration 3

Gerontological Aspects of Communication Disorders
OTH 5613 Interdisciplinary Approach to Aging 3
DEP 6465 Psychology of Culture and Aging 3
DEP 6446 Cognitive Processes in Aging 3

Course Descriptions

Definition of Prefixes
SPA – Speech/Language Pathology
SPA 4xxx Principles of Phonetics (3). Principles of phonetics and their application to speech. Classification of speech sounds according to various systems including, but not limited to, manner and place, distinctive features, and phonological processes. Phonetic transcription utilizing the International Phonetic Alphabet. Prerequisite: Permission of the instructor.

SPA 4xxx Anatomy and Physiology of Speech and Hearing (3). Anatomy and physiology of the speech and hearing mechanisms. Including nomenclature, respiration, phonation, articulation/resonance, the nervous system, and the auditory system. Prerequisite: Permission of the instructor.

SPA 4xxx Speech and Hearing Science (3). Study of speech and hearing physiology, acoustic phonetics, and speech perception. Prerequisite: Permission of the instructor.

SPA 4xxx Introduction to Normal Speech and Language Development (3). The study of normal verbal speech and language acquisition. Prerequisite: Permission of the instructor.

SPA 4xxx Introduction to Audiology (3). Principles of auditory reception; the hearing mechanism; problems involved in measuring, evaluating, and conserving hearing. Prerequisite: Permission of the instructor.

SPA 4xxx Survey of Communication Disorders (3). Theory, evaluation, and therapeutic procedures with disorders of speech and language, including but not limited to, articulation disorders, childhood language disorders, aphasia, voice disorders, and disorders of fluency. Prerequisite: Permission of the instructor.

SPA 4xxx Clinical Management in Communication Disorders (3). This course should be taken in the last semester of undergraduate prerequisite study. Clinical procedures for working in various practicum settings, using diagnostic and therapeutic techniques, writing behavioral objectives, procedures for report writing, and practical experience with clinician-made and commercial materials. Provides directed clinical observation of the evaluation and rehabilitation of individuals with speech, language, and hearing problems. A minimum of 25 clock hours of observation will be required. Prerequisite: Permission of the instructor.

SPA 5132 Technological Innovations in Speech-Language Hearing Sciences (3). Technological innovations in speech language hearing sciences; lecture and laboratory exercises in the use of audio recordings, acoustic analysis and synthesis instrumentation. Prerequisite: Permission of the instructor.

SPA 5401 Phonological Disorders (3). An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them. Prerequisite: Permission of the instructor.

SPA 5216 Vocal and Velopharyngeal Disorders (3). Study of etiology, symptoms, and treatment strategies for a variety of vocal and craniofacial disorders. Prerequisite: Permission of the instructor.

SPA 5225 Fluency Disorders (3). Theories, assessment and treatment techniques for persons across the lifespan with fluency disorders. Prerequisite: Permission of the instructor.

SPA 5403 Language Learning in Children (3). Overview and evaluation of the language skills of preschool and school aged children including metalinguistic and discourse development. Prerequisite: Permission of the instructor.

SPA 5473 Cultural, Racial, Linguistic Diversity in Communication Disorders (3). A study of the relationship between culture and communication with application to assessment and intervention. Prerequisite: Permission of the instructor.

SPA 5500 Basic Clinical Practicum (3). Supervised practice with representative speech and language problems in the school settings. Prerequisite: Permission of the instructor.

SPA 5502 Intermediate Clinical Practicum (3). Supervised practice with communication problems in outpatient settings, private practices, rehabilitation. Prerequisite: Permission of the instructor.

SPA 5553 Differential Diagnosis of Communicative Disorders (3) The administration, evaluation and reporting of diagnostic tests and procedures used in assessment of speech and
language disorders. Prerequisite: Permission of the instructor.

SPA 6005 Assessing the Bilingual Child with Communication Disorders (3). Assessment of normal and atypical language development across cultures. Prerequisite: Permission of the instructor.

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. Prerequisite: Permission of the instructor.

SPA 6322 Aural Habilitation and Rehabilitation (3). Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training and language for the hearing impaired. Prerequisite: Permission of the instructor.

SPA 6406 Bilingual Language Acquisition (3). Development of normal atypical language in speakers of other languages. Prerequisite: Permission of the instructor.

SPA 6410 Aphasia and Related Disorders (3). Consideration of the neurological and psychological aspects of aphasia and related approaches are discussed and evaluated. Prerequisite: Permission of the instructor.

SPA 6505 Advanced Clinical Practicum (3). Supervised practice with severe communication problems in area hospitals and longterm care facilities. Prerequisite: Permission of the instructor.

SPA 6559 Augmentative/Alternative Communication (3). Assessment and intervention strategies and technology for individuals with severe communication impairments. Prerequisite: Permission of the instructor.

SPA 6565 Dysphagia (2). Information and training in the evaluation and treatment of swallowing disorders. Prerequisite: Permission of the instructor.

SPA 6930 Master’s Project (1-6). This course provides the student with an opportunity to explore in-depth a specific topic of interest in speech pathology. Prerequisite: Permission of the instructor.

SPA 6971 Master’s Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of the Master’s degree requirement. Prerequisite: Permission of the instructor.
School of Nursing

Grossman, Divina, Ph.D., RN, ARNP, CS, FAAN Director and Professor, Nursing
Blais, Kathleen, RN, Ed.D. Associate Professor
Conners, Veronica, RN, Ed.D., Ph.D., Professor
Fairchild, Susan, RN, Ed.D., CNS Associate Professor
Freeman, Edward, Ph.D., ARNP Professor, Nursing
Friedemann, Marie-Luise, RN, Ph.D. Associate Professor, Nursing
Galindo-Ciicon, Daisy, Ph.D., ARNP, Associate Professor
Granville, Mirta, ARNP, MSN, FNP, Clinical Assistant Professor
Lizardo, Maria Lourdes, ARNP, MSN, Ed.D. Lecturer, Nursing
Lobar, Sandra, ARNP, PNP, Ph.D. Associate Professor, Nursing
Low, John, RN, Ph.D. Assistant Professor
Madayag, Tomas, RN, Ed.D. Assistant Professor, Nursing
Phillips, Suzanne, ARNP, Ed.D. Associate Professor, Nursing
Porter, Luz, ARNP, Ph.D. Professor,
The School offers a program of study leading to the Master of Science in Nursing (MSN) degree to prepare qualified professional nurses for advanced nursing roles in the care of adults and children. The program offers clinical tracks in adult health nursing, psychiatric-mental health nursing, and child health nursing. The design of the program allows for the development of the blended nurse practitioner and clinical nurse specialist role.

Throughout the curriculum, students are guided in the process of self-development to pursue excellence in professional and scholarly endeavors. The program allows flexibility within the basic curricular structure through individualized learning experiences, electives, thesis, and the opportunity to investigate an area of interest in advanced study.

The curriculum model allows students to enroll on a full-time or part-time basis. The duration for the individual student study plan is determined in consultation with a faculty adviser and is based on the student’s background and goals. The program can be completed in four semesters of full-time study, averaging a load of 9-12 credit hours per semester. Part-time study can be completed in a variable time but not to exceed six years.

Program Objectives
1. Provide comprehensive, specialized quality care to clients in various settings, incorporating theories and advanced knowledge into nursing practice.
2. Utilize critical thinking, therapeutic communication and appropriate teaching, management, consultative, and advanced clinical skills in the exercise of professional responsibilities.
3. Integrate developmental, cultural, spiritual, physiological, and psychosocial concepts in advanced professional role performance.
4. Investigate clinical problems and test theory, contributing to the theoretical basis of nursing and the specialty area.
5. Function as a leader and change agent in the health care and professional arena, enhancing improved delivery of health care and influencing health policy.
6. Demonstrate leadership in the development and implementation of professional standards and conduct.

Graduates are qualified to apply for ARNP licensure in Florida and are prepared to apply for American Nurses Credentialing Center (ANCC) certification as an advanced nurse practitioner or a clinical nurse specialist in the chosen specialty area of adult health, child health or psychiatric-mental health nursing.

Admission Requirements
The applicant must:
1. Meet the admission requirements for graduate education at Florida International University.
2. Have completed a baccalaureate degree in nursing which is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, New York 10006. Applicants with a baccalaureate degree from nursing programs without NLN accreditation will be considered on an individual basis.
3. Have an undergraduate cumulative grade point average (GPA) of at least 3.0 on a 4.0 scale. GPA is based on the last two years of course work in the nursing baccalaureate program.
4. Have evidence of a current RN licensure in Florida.
5. Have at least one year experience of clinical nursing.
6. Have completed introductory courses in statistics (3 credits), basic health assessment (3 credits), and computer application (word processing).
7. Have obtained a combined score of at least 1000 on the verbal and quantitative scales of the Graduate Record Examination, if the student's undergradate (BSN) cumulative GPA is below 3.0. Otherwise, the applicant must have obtained a combined verbal and quantitative score of at least 800.
8. Provide the following:
   a. Statement of philosophy of nursing and professional goals.
   b. Letters of reference from: 1) a previous nursing faculty, 2) a current immediate supervisor; and 3) a co-worker.
9. For international students (graduates of foreign nursing schools) only:
   a. TOEFL score of at least 550 if not licensed as a registered nurse (RN).
   b. CGFNS certification or Florida RN license.

Application Process
Applicants need to complete the following steps in order to be considered for admission:
1. Complete two application forms as indicated and return to the appropriate offices to avoid unnecessary delay in the review process.
   a. Application for Admission to Graduate Studies - To be returned with a $20.00 non-refundable service fee to: Office of Admissions, Florida International University, North Campus, ACII-160, North Miami, Florida 33181.
   b. Application for Admission to the Master of Science in Nursing Program-To be returned to: The Graduate Program Office, FIU School of Nursing, North Campus, ACII-203, North Miami, Florida 33181.
2. Request an official transcript of records from each college or university attended. Transcripts should be sent directly to the Office of Admissions.
3. Send three reference letters directly to the Coordinator, FIU School of Nursing Graduate Program.
4. Participate in an interview with a faculty member teaching in the graduate program. The interview is for the purpose of verifying application materials, reviewing admission criteria,
identifying deficiencies and transferable credits, as well as projecting a tentative plan of study. The applicant should take an active role in the interview process to be informed about the program and the basis for the admission criteria.

Degree Requirements
1. Completion of 42 semester credit hours. Minimum of 36 hours in nursing and 3 hours of non-nursing electives. The non-nursing electives are restricted to supporting courses for the specialty area.
2. Completion of a thesis (6 hours) or a Master’s paper (3 hours). Students electing a Master’s paper must complete an additional three hours of cognate courses.
3. Achievement of an overall cumulative GPA of 3.0 or above. A cumulative GPA of less than 3.0 will place the student on probation for one semester, and she/he may be subject to dismissal if the 3.0 GPA requirement is not met after the probationary period.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "C" or below will not count toward satisfying graduate degree requirements.

Students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the advisor.

Master of Science in Nursing

Curriculum

Graduate Core Courses (9)
NGR 5110  Theories in Nursing  3
NGR 5604  Culture and Advanced Nursing Practice  3
NGR 5810  Research Methods in Nursing  3

Clinical Specialty Core Courses (9)
NGR 5035C  Advanced Client Assessment  3
NGR 5141  Pathophysiological Basis of ANP  3
NGR 6192  Pharmacological Concepts in ANP  3

Clinical Concentration (12)
Advanced Adult Health Nursing
NGR 6201  Advanced Adult Health Nursing I  3
NGR 6210L  Advanced Adult Health Nursing Practice I  3
NGR 6202  Advanced Adult Health Nursing II  3

Advanced Child Health Nursing
NGR 6300  Advanced Child Health Nursing I  3
NGR 6301L  Advanced Child Health Nursing Practice I  3
NGR 6303  Advanced Child Health Nursing II  3
NGR 6302L  Advanced Child Health Nursing Practice II  3

Advanced Psychiatric-Mental Health Nursing (12)
NGR 6502  Advanced Psychiatric-Mental Health Nursing I  3
NGR 6503L  Advanced Psychiatric-Mental Health Nursing Practice I  3
NGR 6504  Advanced Psychiatric-Mental Health Nursing II  3
NGR 6507L  Advanced Psychiatric-Mental Health Nursing Practice II  3

Functional Role (7)
Advanced Practice Nurse
NGR  Elective  3
NGR 6704L  Role Synthesis in Advanced Nursing Practice  4

Nursing Administration
NGR 6712  Role Synthesis in Nursing Administration  4
NGR 6727  Issues & Strategies of Nursing Administration  3

Nursing Education
NGR 6710  Role Synthesis on Nursing Education  4
NGR 6713  Curriculum Development in Nursing  3

Research (6)
Master’s Thesis Option
NGR 6970  MSN Thesis I  3
NGR 6971  MSN Thesis II  3

Master’s Paper Option
NGR 6970  MSN Thesis I (Research Project)  3
Cognate Electives  3
Elective  2

Sample Program Progression Plan (Full-Time Study)
Specialty Track: Adult Health Nursing Research Option: Master’s Thesis
Semester I (12)
NGR 5035C  Advanced Client Assessment  3
NGR 5110  Theories in Nursing  3
NGR 5141  Pathophysiological Basis of Advanced Nursing Practice  3

NGR 5604  Culture and Advanced Nursing Practice  3
Semester II (12)
NGR 5810  Research Methods in Nursing  3
NGR 6192  Pharmacological Concepts in Advanced Nursing Practice  3
NGR 6201  Advanced Adult Health Nursing I  3
NGR 6210L  Advanced Adult Health Nursing Practice I  3

Semester III (11)
NGR 6202  Advanced Adult Health Nursing II  3
NGR 6211L  Advanced Adult Health Nursing Practice II  3
NGR 6970  Thesis I  3
Elective  2

Semester IV (7)
NGR 6704L  Role Synthesis in Advanced Nursing Practice  4
NGR 6971  Master’s Thesis II  3

Sample Program Progression Plan (Part-Time Study)
Specially Track: Adult Health Nursing Research Option: Master’s Thesis
Semester I (6)
NGR 5110  Theories in Nursing  3
NGR 5141  Pathophysiological Basis of Advanced Nursing Practice  3

Semester II (6)
NGR 5035C  Advance Client Assessment  3
NGR 6192  Pharmacological Concepts in Advanced Nursing Practice  3

Semester III (6)
NGR 5604  Culture and Advanced Nursing Practice  3
NGR 5810  Research methods in Nursing  3

Semester IV (6)
NGR 6201  Advanced Adult Health Nursing I  3
NGR 6210L  Advanced Adult Health Nursing Practice I  3

Semester V (9)
NGR 6202  Advanced Adult Health Nursing II  3
NGR 6211L  Advanced Adult Health Nursing Practice II  3
NGR 6970  Thesis I  3

Semester VI (5)
NGR 6971  Thesis II  3
Elective  2

Semester VII (4)
NGR 6704L  Role Synthesis in Adult Nursing Practice  4
Post-Master's Nurse Practitioner Certificate Program

This Post-Master's Nurse Practitioner Certificate Program is built upon a recent Master's degree in nursing with a clinical nursing major such as adult health nursing, child health nursing, or psychiatric/mental health nursing. Transcripts of previous work are reviewed by the Graduate Nursing Program Associate Director and a program of study is developed.

Nurse Practitioner Core (9)
NGR 5035C Advanced Client Assessment 3
NGR 5141 Pathophysiologic Basis of Adult Nursing 3
NGR 6192 Pharmacological Concepts in Advanced Nursing Practice 3

MSN Core (3)
NGR 5604 Culture and Advanced Nursing Practice 3

Primary Core (6)
NGR 6xxx Advanced Adult/Child/Family/Psych/MH Nursing I 3
NGR 6xxx Advanced Adult/Child/Family/Psych/MH Nursing Practice 1 3

Role Development (4)
NGR 6704L Role Synthesis in Advanced Nursing Practice 4

Admission Requirements:
1. A Master of Science in Nursing (MSN) degree with a clinical nursing specialty from an NLN accredited program.
2. A graduate (MSN) grade point average (GPA) of 3.0 or above.
3. Graduate courses in nursing theory (3 credits) and research (3 credits).
5. Pre-admission interview with a member of the Graduate Nursing Admissions Committee.
6. Two letters of recommendation.

Admission Procedure
1. File application for admission directly to the School of Nursing Graduate Program Office prior to registration.
2. Submit official transcripts of all previous college work, both graduate and undergraduate.
3. If applicant has not previously attended Florida International University, she/he must pay a non-refundable application fee, payable to FIU.
4. Application file should be completed at least two weeks before registration. Qualified applicants will be admitted as non-degree seeking students.

Course Descriptions

Definition of Prefixes
NGR - Nursing Graduate

NGR 5035C Advanced Client Assessment (3). Refinement of health assessment skills fundamental to advanced nursing practice. Emphasis is on critical thinking and diagnostic reasoning required in accurate health assessments, differentiating normal and abnormal. Prerequisites: MSN admission; basic health assessment (3 credits), NGR 5141.

NGR 5110 Theories in Nursing (3). Analysis, evaluation, and application of nursing theories to practice, research, education and administration. Prerequisites: Departmental permission, Graduate standing.

NGR 5135 Legal and Ethical Dimensions of Advanced Nursing Practice (3). Analysis of legal and ethical precepts and application to moral and legal dilemmas in advanced nursing practice focusing on the advocacy role in promoting rights of individuals and families. Prerequisite: Consent of instructor.

NGR 5136 International Nursing System/Advanced Nursing Practice (3). Comparative analysis of philosophical, legal, political, economic and social underpinnings of the nursing progression within the context of international developments and trends in the post-cold war era.

NGR 5141 Pathophysiologic Basis of Advanced Nursing Practice (3). Focuses on the pathophysiologic basis of clinical judgment and client management in advanced nursing practice. Prerequisite: Graduate standing and permission of the department.

NGR 5250 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiologic alterations and their relationship to common health concerns and medical problems of the elderly.

NGR 5480 Women and Health: A Nursing Perspective (3). Analysis of the unique health concerns of women across the life span. Emphasizes a multidisciplinary approach. Prerequisite: Graduate standing.

NGR 5604 Culture and Advanced Nursing Practice (3). Theoretical models explanatory of culture and behavior manifestation of cultural diversity. Focuses on multicultural nursing and methodology for nursing care throughout the life span. Prerequisite: Departmental permission.

NGR 5810 Research Methods in Nursing (3). Research methods and designs commonly used in nursing. Focuses on the research process as it is integrated through the interchange of theory, practice, and research. Prerequisites: Statistics, departmental permission and NGR 5110.

NGR 5871C Nursing Informatics: Computer Mediated Information Technology in Nursing (3). Introduction to principles/practices of computer/information technologies in nursing. Theoretical/applied aspects refined in hands-on lab. Prerequisites: Undergraduate statistics; Permission of the instructor.

NGR 5905 Independent Study in Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, Permission of the instructor, and admission to a graduate program.

NGR 5936 Special Topics in Nursing (1-6). Group study of a specific topic or a limited number of related topics in nursing. Prerequisite: Must be a nursing student or Florida licensed RN.


NGR 6201 Advanced/Adult Health Nursing I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-to-moderate alterations in adaptive responses to acute/emergent illness.
Prerequisites: NGR 5035C, NGR 5110, NGR 6192.

NGR 6202 Advanced Adult Health Nursing II (3). In-depth study of severe alterations in adaptive responses to chronic and acute multi-system illnesses. Refinement of practice models, integrating theories of nursing and related sciences. Prerequisite: NGR 6210L, NGR 5810 and NGR 5604.

NGR 6210L Advanced Adult Health Nursing Practice I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-to-moderate alterations in adaptive responses to acute/emergent illness. Corequisite: NGR 6201.

NGR 6211L Advanced Adult Health Nursing Practice II (3). Advanced nursing practice with adult clients experiencing severe alteration in adaptive responses to chronic/acute multi-system illnesses, focusing on comprehensive application of the nursing process. Corequisite: NGR 6202.

NGR 6300 Advanced Child Health Nursing I (3). Development of a conceptual model for family-centered nursing of children, increasing the breadth and depth of students' theoretical foundation unique to the specialty area. Prerequisites: NGR 5110, NGR 5035, and NGR 6192.


NGR 6302L Advanced Child Health Nursing Practice II (3). Application of a refined conceptual model for advanced nursing practice focusing on family-centered care of children requiring high level technological care and/or multidimensional rehabilitation. Corequisite: NGR 6303.

NGR 6333 Conceptual Issues in Nursing Management of Developmental Disabilities (3). Study of developmental theories, concepts and research findings in context of nursing model. Problems relevant to nursing intervention are examined through critique of pertinent literature. Corequisites: Graduate standing and permission of the department.


NGR 6507L Advanced Psychiatric-Mental Health Nursing Practice II (3). Application of the nursing process with clients presenting complex problems or in high risk situations. Collaborative process in therapy and consultation, and planned change. Corequisites: NGR 6504.

NGR 6601 Advanced Family Health Nursing I (4). Specialization, expansion, and advancement of research based knowledge and skills fundamental to the advanced practice of family nursing in primary care. Prerequisite: NGR 5310 and NGR 5035, Corequisite: NGR 5604 and NGR 6192.

NGR 6601L Advanced Family Health Nursing Practice I (4). Clinical management of common problems of children and selected diseases of adults in advanced nursing practice, the family being the unit of service. Blends the FNP/CNS role in delivery of primary health care. Corequisite: NGR 6601.

NGR 6602 Advanced Family Health Nursing II (4). Continuing development of specialized knowledge and skills critical to the blended FNP/CNS role in primary health care. Refinement of a nursing model of practice, the family as unit of service. Prerequisites: NGR 5604, NGR 5810, and NGR 5871C.

NGR 6602L Advanced Family Nursing Practice II (4). Clinical management of multisystem problems of children and adults commonly seen in primary care settings. Further development of the blended FNP/CNS role with the family as unit service. Corequisite: NGR 6602.

NGR 6704L Role Synthesis in Advanced Nursing Practicum (4). Advanced nursing practice role with diverse client population. Role developed through contractual agreements in collaboration with faculty and mentors. Prerequisites: NGR 6211L or NGR 6507L or NGR 6302L.

NGR 6710L Role Synthesis in Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6712L Role Synthesis in Nursing Administration (4). Intensive practicum applying leadership, decision-making, management, and administration theories and concepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6725 and NGR 6211L, or NGR 6507L or NGR 6302L.

NGR 6713 Curriculum Development in Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission, NGR 5110.

NGR 6725 Issues and Strategies of Nursing Administration (3). Analysis of issues, principles, and concepts of nursing administration. Includes synthesis of behavioral and organizational theories with institutional goals in formulation of administrative strategies. Prerequisites: Graduate standing and departmental permission.
NGR 6726C Nursing Management and Continuous Quality Improvement (3). Role of nurse managers in developing and implementing continuous quality-improvement programs; implications of such programs on health care delivery. Includes role of middle management in personnel development and promoting nursing research in the clinical arena. Corequisites: NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6970 Master's Thesis I (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Completion of a research project for non-thesis students. Prerequisite: NGR 5810. Corequisites: NGR 6211L or NGR 6507L or NGR 6302L.

NGR 6971 Master's Thesis II (3). Implementation through completion of student's research thesis proposal. Prerequisite: NGR 6970.

NUR 5495 Women's Health Issues (3). This course is designed to acquaint the student with selected conditions impacting the health of women.

*All students must provide evidence of personal professional liability insurance prior to registering for any clinical nursing courses.
School of Policy and Management

Gloria Deckard, Interim Director
The School of Policy and Management includes Criminal Justice, Health Services Administration, and Public Administration.

Criminal Justice
Joseph Byrnes, Visiting Instructor
Ellen G. Cohn, Associate Professor
Stewart D'Alessio, Assistant Professor
Sumam Kakar, Associate Professor and Coordinator
Jose A. Marques, Associate Professor
Ramiro Martinez, Associate Professor
Luis Salas, Professor
Harlan Sands, Visiting Instructor
Regina Shearn, Associate Professor
Robert Snow, Associate Professor
Lisa Stolzenberg, Assistant Professor
W. Clinton Terry, Associate Professor
James Vardalis, Assistant Professor

Criminal Justice is an area of study dealing with the formal mechanisms of social control by which society exercises constraint over its members. The study of criminal justice is interdisciplinary. It involves law, the social and behavioral sciences, crime, the reaction of society to the crime problem, and the means utilized in treating it.

A variety of career opportunities are available in criminal justice at all levels of government and the private sector. Due to its interdisciplinary approach, the study of criminal justice fills the needs of students seeking careers in teaching, research, law, and within the various agencies of the criminal justice system.

Master of Science in Criminal Justice

The Master of Science degree program in Criminal Justice is a professional program designed to prepare students for management responsibilities in the criminal justice sector or public sector related activities.

The objectives of the master's program are:

1. To provide present and future criminal justice managers with the skills needed to function effectively in our ever-changing society.
2. To serve as a catalyst for interdisciplinary research and study of criminal justice and related problems.
3. To provide the criminal justice system with qualified students for academic careers in administration, planning and analysis, and teaching in colleges and universities.

Students having a Bachelor's degree from an accredited institution and a minimum of a 3.0 GPA in all undergraduate upper division work, or a total score of 1000 on the Graduate Record Examination (verbal and quantitative) or a score of 500 on the Graduate Management Admission Test (GMAT), or a graduate degree from an accredited institution are eligible for admission to the program. All applicants must complete the GRE prior to full admission status. A maximum of 12 semester hours may be taken as a non-degree seeking student. This status does not guarantee admission to the degree program.

Degree Credit Requirements
The Master's degree in Administration of Justice requires 39 credit hours (13 courses). A maximum of six semester hours not included in another degree may be transferred into the program from an accredited institution, subject to the approval of the Program Coordinator.

All students entering the program are required to complete five courses (15 credits) of core requirements, four courses (12 credits) in a specialization, Law and Criminology or Justice Policy and Management, and four elective courses (12 credits). Thesis track students will select two courses (6 credits) of electives and two thesis courses (6 credits).

All elective courses must be earned at the graduate level (i.e., course numbers of 5000 and higher). Two courses (6 credits) may be taken outside of criminal justice, if no courses have been transferred into the program from another degree program. The Program Coordinator must approve all courses outside of criminal justice.

Effective for students entering the program August 1, 2000 or afterward, Advanced Standing provides students with an undergraduate degree in criminal justice or in a criminal justice-related field to waive two elective courses (6 credits). Students must apply for Advanced Standing upon admission to the Program. To apply for Advanced Standing, the student must complete an Advanced Standing Petition Form. The Program Coordinator must approve the application for Advanced Standing.

Core Requirements
All candidates must take five core courses (15 credits).

CCJ 5xxx Seminar in Administration of Justice 3
CCJ 6025 Theory in Administration of Justice 3
URS 6155 Quantitative Methods for Policy and Management 3
URS 6654 Applied Organization Theory and Behavior 3
URS 6806 Applied Research and Evaluation Techniques 3

Specialization
At least four courses (12 credits) must be taken in one of the following specializations:

Law and Criminology
Select two law courses:

CCJ 5288 Legal Issues for Criminal Justice Administration 3
CCJ 5xxx Seminar in Criminal Law & Procedure 3
CCJ 5xxx Seminar in Criminal Law & Social Control 3
CCJ 5287 Legal Aspects of Corrections 3
CCJ 5285 Judicial Process & Policy 3

Select two criminology courses:

CCJ 5525 Seminar in Juvenile Delinquency 3
CCJ 5xxx Seminar in Criminal Counseling 3
CCJ 5xxx Seminar in Criminal Justice and Criminal Behavior 3
CCJ 5xxx Seminar in Comparative Criminology and Criminal Justice Systems 3
CCJ 6665 Seminar in Victimology and the Criminal Justice System 3

Justice Policy and Management
Select two public administration courses:

URS 5xxx Public Personnel Administration 3
PAD 6053 Context of Public Administration 3
URS 5xxx Public Administration and Ethics 3
PAD 6227 Public Budgeting Techniques 3

Select two criminal justice administration courses:

CCJ 5288 Legal Issues for Criminal Justice Administration 3
Graduate 3 Policy member Judicial Minorities Field 3 Delinquency criminal Juvenile 1-3 3

**Electives:** (18)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>CCJ 5056</td>
<td>History and Philosophy of Criminal Justice</td>
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<tr>
<td>CCJ 5216</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5235</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5286</td>
<td>Comparative Law</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5287</td>
<td>Legal Aspects of Corrections</td>
<td>3</td>
</tr>
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<td>CCJ 5525</td>
<td>Seminar in Juvenile Delinquency</td>
<td>3</td>
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<tr>
<td>CCJ 5605</td>
<td>Deviance and Social Control</td>
<td>3</td>
</tr>
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<td>CCJ 5669</td>
<td>Minorities in Justice Administration</td>
<td>3</td>
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<tr>
<td>CCJ 5935</td>
<td>Special Topics</td>
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<tr>
<td>CCJ 6456</td>
<td>Administration and Management of CCJ Agencies</td>
<td>3</td>
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<td>CCJ 6477</td>
<td>Seminar in Information Systems</td>
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<td>CCJ 6665</td>
<td>Criminology and Criminal Justice System</td>
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<td>CCJ 6706</td>
<td>Applied Statistical Techniques for CCJ</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6716</td>
<td>Planning and Program Evaluation</td>
<td>3</td>
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<tr>
<td>CCJ 6915</td>
<td>Directed Individual Graduate Study in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6945</td>
<td>Field Research in CCJ</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6971</td>
<td>Thesis Research</td>
<td>1-3</td>
</tr>
<tr>
<td>CCJ 6976</td>
<td>Masters Thesis Defense</td>
<td>4</td>
</tr>
</tbody>
</table>

**Thesis Track Procedures**

Thesis track students will select a committee of three graduate faculty members, the student's major faculty advisor being a member and chairperson of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the Master's program. Admission to the program should not be construed as admission to candidacy for a degree. Students may apply for candidacy upon completion of 15 semester hours. Admission to candidacy should be completed before the student enrolls for the last 12 hours.

**Graduation Requirements**

To receive the Master's degree in criminal justice, a student must satisfy all University regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the five core courses, four electives, and the two thesis courses. The student may be required to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the six core courses and six electives. A minimum GPA of 3.0 is required.

**Course Descriptions**

**Definition of Prefixes**

CCJ-Criminology and Criminal Justice; URS-Urban Regional Studies.

**CCJ 5056 Historical Development of Criminology and Criminal Justice (3).** The historical and philosophical background of criminal justice is presented as a basis for a more analytical understanding of the problems and prospects of criminal justice organization, management, and behavior.

**CCJ 5105 Police Organization, Behavior, and Administration (3).** Analysis of the organization and administration of police departments and their effects on police behavior.

**CCJ 5285 Judicial Process and Policy (3).** The functions, roles, and interactions of decision makers will be analyzed and evaluated. The policy decisions and processing of criminal cases within the judicial system will be examined.

**CCJ 5287 Legal Aspects of Corrections (3).** A study of the contemporary legal rights of convicted offenders, including the impact of litigation on offenders, correctional agency personnel and operations, and other justice agencies. Case law and statutes will be reviewed within the context of the punishment and/or rehabilitation of the offender.

**CCJ 5288 Legal Issues for Criminal Justice Administration (3).** The course will focus on a basic understanding of administrative law and procedures in the American system. Topics will include the methods and limitations of the administrative process as it is developing in the American legal system.

**CCJ 5347 Correctional Intervention Strategies (3).** An overview and critical assessment of treatment and rehabilitation programs in corrections, including prisons, probation and parole, halfway houses, and pre-trial programs. Relevant research will be reviewed.

**CCJ 5445 Corrections and Correctional Management (3).** The course focuses on current critical issues and problems in the management of adjudicated offenders in correctional systems. The organization and administration of community and institutional corrections agencies will be reviewed and their performance analyzed.

**CCJ 5525 Seminar in Juvenile Delinquency (3).** Focuses on the nature, scope and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, delinquency, and family law.

**CCJ 5669 Minorities in Justice Administration (3).** Focuses upon the disparity in outcomes for minority groups (i.e. racial/ethnic/sexual) across the criminal justice system, and on alternative explanations for those differences in outcome. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

**CCJ 5935 Special Topics (3).** An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethics, terrorism, sentencing, information systems, and other topics based on student interest or current concern. May be repeated. Prerequisite: Graduate Standing.

**CCJ 5xxx Violent Crime and Criminal Behavior (3).** This course deals with violent criminal behavior and the criminal justice system's reaction to violence.

**CCJ 5xxx Seminar in Administration of Justice (3).** This course provides students with a critical understanding of the responses to crime. Emphasis is placed on theory and research relating to the effectiveness of the criminal justice system.

**CCJ 5xxx Seminar in Criminal Law and Procedure (3).** This course examines substantive criminal law as a basis of social control in our country. Contemporary issues such as insanity defense, sexual assault, and abortion
will be any in topics expired. Criminal procedure issues relate to the right to counsel, search and seizure and interrogation will also be examined.

CCJ 5xxx Law and Social Control (3). This course examines law as an instrument of social control and the legal basis of criminal law. The legal limitations on criminal justice institutions and policies are also considered.


CCJ 6025 Theory in Administration of Justice (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6456 Administration and Management of Criminal Justice Agencies (3). An examination of the criminal justice system from the perspective of administrative and management theory. Emphasis is upon the identification of organizational and administrative problems and their solutions.

CCJ 6477 Seminar in Information Systems (3). An advanced seminar in the survey and application of electronic data in the criminal justice system. Prerequisite: Permission of the instructor.

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship of victims and offenders and the manner in which the criminal justice system responds to victims of crime.

CCJ 6716 Planning and Program Evaluation (3). A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation.

CCJ 6915 Directed Individual graduate Study in Criminal Justice (3). Students can select a particular aspect of criminal justice for in-depth independent study with a criminal justice faculty. Prerequisite: Graduate standing.

CCJ 6945 Field Experience in Criminal Justice (3). A course designed to provide selected students an opportunity to engage in action-oriented research within a criminal justice agency on a designated research project.

CCJ 6971 Thesis Research (1-3). This course is devoted to the actual research labor required for a thesis in the Masters program.

CCJ 6976 Masters Thesis Defense (1-3). This course is devoted to the effort required to prepare the thesis document.

URS 6806 Research Methods and Design (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design.
Health Services Administration

Andrew Batavia, Associate Professor
David Bergwall, Associate Professor and Associate Dean
Gloria Deckard, Associate Professor and Interim Director
Burton Dunlop, Senior Lecturer
Rosebud Foster, Professor
Kristina Guo, Assistant Professor
Gerald Mills, Assistant Professor
Frederick Newman, Professor
Max Rothman, Senator Lecturer
Vandon White, Professor

The program in Health Services Administration offers graduate and undergraduate studies leading to Bachelor's and Master's degrees in Health Services Administration.

The Graduate Program in Health Services Administration is accredited by the Accrediting Commission on Education for Health Services Administration (ACEHSA). Accreditation by this agency ensures the student that the program has been reviewed and meets the national standards for graduate studies in the field.

The management of health services occurs in an environment of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. Many of the same skills needed for executive management are now also required to provide leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

The Master of Health Services Administration (MHSA) provides professional education for management careers in health services organizations. The degree addresses the theories and issues of managing complex organizations in both public and private settings. The program is organized to meet the needs of the working student. Many individuals enrolled are already employed in administrative roles in the field. While enhancing their career, they bring the wealth of their experience to the classroom.

The Master's program is designed so that full-time students may complete all course work in five semesters. The same curriculum can be completed by part-time students within three years.

Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytic and policy functions of health services administration.

Since these studies provide a professional emphasis, the Program utilizes a variety of local hospitals, long-term care facilities, mental health programs, multi-institutional corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervised field experiences and a 'practical laboratory' for operational research in health service administration.

The goal of the program in Health Services Administration is to create an academic center in which the University can respond to the educational needs of the field of health services administration. The Program's mission, therefore, is dedicated to the following educational objectives:

1. To provide professional studies in the theories, methods and practices of health care management, planning, analysis, applied research, and policy development in health services organizations.

2. To participate in interprofessional education experiences with faculty, students, and practitioners of the allied health sciences, public affairs, public health, and related human services professions interacting with the field of health care management.

3. To extend consultation and technical assistance to appropriate organizational settings and practitioners in health services and administrative practice.

4. To conduct scholarly and applied research on various management problems and issues of significance to improve the delivery of health services.

5. To review and revise program curricula and objectives from time to time in order to keep current with the changing educational and professional needs of the field.

Master of Health Services Administration

Admission Requirements

Students seeking admission into the graduate program must meet the following minimum requirements:

1. Satisfactorily meet the general University requirements for admission to graduate programs.

2. Hold a Bachelor's degree from a regionally accredited university or college.

3. Show promise of success in graduate studies as determined by the faculty. Admission to the program will be based upon a combination of the Graduate Record Examination (GRE) and the upper-division (last 60 hours) grade point average. Students who have taken the Graduate Management Admissions Test (GMAT) may submit that score in place of the GRE. Each applicant must have a composite score on the verbal and quantitative sections of the GRE of at least 1000 (for the GMAT at least 450) or a GPA for the last 60 hours of 3.0 or higher on a 4.0 scale. All applicants are required to submit a GRE or GMAT score.

4. Foreign students must obtain a minimum score of 500 on the TOEFL examination.

5. Prerequisites for admission include course work in accounting and statistics with a grade equivalent of 'C' or higher. Entering students are expected to possess basic microcomputer skills including word processing, Internet, and spreadsheet applications. Students who do not have these skills or prerequisites may complete these requirements in their first semester of study.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors including compatibility of the applicant's career goals with the programs objectives, relevance of work experience, etc. The Program Admissions Committee may require a personal interview as a part of the application process.

All applications for admissions should be received by the Program no later than two months preceding the semester in which the student wishes to commence the program. A maximum of 12 semester hours taken as an affiliated student can be used toward the degree. Affiliated status does not guarantee admission to the degree program.

Admissions Procedures

A student wishing to enroll in the graduate program must complete the following:

1. Submit a Graduate Application to the University Admissions Office.

2. Have official transcripts of all previously earned college or university credits sent to the University Admissions Office.
3. Submit scores on the Graduate Record Examination or GMAT.

Effective for students entering the program 8/30/95 or afterward, Advanced Standing provides students with an undergraduate degree in Health Services Administration or in an administrative discipline to waive equivalent course content and to complete the Master's of Health Services Administration degree with 42 to 48 credit hours. The maximum allowable waiver of courses for Advanced Standing is nine credit hours. Courses for which the waiver may be granted include:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HSA 5125</td>
<td>Introduction to Health Services</td>
<td></td>
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<tr>
<td>HSA 6185</td>
<td>Management of Health Care Organizations</td>
<td></td>
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<tr>
<td>HSA 6426</td>
<td>Legal Aspects of Health Care</td>
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Students must apply for Advanced Standing upon admission to the Program or during their first semester in the Program. To apply for Advanced Standing, the student must complete an Advance Standing Petition Form and document equivalent course content with a grade of "B" or better. The application for Advanced Standing must be approved by the three member HSA Curriculum Committee.

Students entering the MHSA program with an undergraduate degree in business administration (BBA) and possessing equivalent courses in management, organization theory and organizational behavior course work may apply for a waiver of URS 6654 Applied Organization Theory and Behavior allowing them to complete the Program in 48 credit hours.

Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for the Master of Health Services Administration Program.
2. Complete a minimum of 51 semester hours of graduate level course work in the approved program.
3. Earn a minimum overall GPA of 3.0 in all work completed at the University as a graduate student.
4. No courses in which a grade below "C" is earned may be counted toward the Master's degree.
5. A maximum of nine semester hour-credits of graduate course work not included in another degree, may be transferred from an accredited university by petition at the time of admission.

All students completing the Master's program are subject to graduate student regulations and degree requirements governed by the policies of the College of Urban and Public Affairs and the University.

Courses are sequenced to enhance the development of competencies as students progress through the curriculum. Students need to pay attention to course prerequisites and adhere to course sequencing.

Program Total: (51)

Core Courses required of all students: (45)

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<tr>
<th>Group</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>1</td>
<td>HSA 5125</td>
<td>Introduction to Health Services</td>
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<tr>
<td></td>
<td>HSA 6415</td>
<td>Managerial Applications of Social Determinate of Health</td>
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<td></td>
<td>HSA 6176</td>
<td>Financing and Reimbursement of Health Delivery Systems</td>
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<td>URS 6155</td>
<td>Quantitative Methods and Analysis</td>
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<td>HSA 6155</td>
<td>Health Policy and Economics</td>
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<td>HSA 6175</td>
<td>Financial Management of Health Services</td>
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<td>Health Services Organization and Management</td>
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<td>Applied Program Development and Evaluation Methods</td>
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<td>Personnel Management and Labor Relations</td>
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<td>Human Resource Policy and Management</td>
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<td>Advanced Health Services Management and Research Seminar</td>
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</table>

Field Elective: *(one of the following)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5225</td>
<td>Long Term Care Management I</td>
<td></td>
</tr>
<tr>
<td>HSA 6205</td>
<td>Hospital and Health Facilities Management</td>
<td></td>
</tr>
</tbody>
</table>

HSA 6215 | HMO and Ambulatory Care Administration      |         |
HSA 6245 | Mental Health Administration and Planning   |         |

Integrative Experience

One of the Following Three:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5876</td>
<td>Administrative Residency in Nursing Home Settings</td>
<td></td>
</tr>
<tr>
<td>HSA 6875</td>
<td>Administrative Residency</td>
<td></td>
</tr>
<tr>
<td>HSA 6977</td>
<td>Master's Research Project</td>
<td></td>
</tr>
</tbody>
</table>

Open Elective: *(3)*

Students may select an elective course from the following or from other units of the University (i.e., public administration, business administration, public health or other disciplines) with an advisors approval.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5226</td>
<td>Management in Long Term Care</td>
<td></td>
</tr>
<tr>
<td>HSA 5227</td>
<td>Long Term Care Management II</td>
<td></td>
</tr>
<tr>
<td>HSA 5408</td>
<td>Health Service Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>HSA 5455</td>
<td>Ethical Decision Making in Health Administration</td>
<td></td>
</tr>
<tr>
<td>HSA 5816</td>
<td>Practicum in Long Term Care Management</td>
<td></td>
</tr>
<tr>
<td>HSA 5876L</td>
<td>Administrative Residency in Nursing Home Settings</td>
<td></td>
</tr>
<tr>
<td>HSA 5935</td>
<td>Special Topics in Health Services</td>
<td></td>
</tr>
<tr>
<td>HSA 6905</td>
<td>Independent Advanced Study</td>
<td></td>
</tr>
</tbody>
</table>

Nursing Home Administration

Students interested in nursing home administration and seeking licensure as a nursing home administrator in the State of Florida are advised to take the following courses within their program of study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5225</td>
<td>Long Term Care Management I</td>
<td></td>
</tr>
<tr>
<td>HSA 5227</td>
<td>Long Term Care Management II</td>
<td></td>
</tr>
<tr>
<td>HSA 5177</td>
<td>Finacing and Reimbursement for Long Term Care (in place of HSA 6176)</td>
<td></td>
</tr>
<tr>
<td>HSA 5876</td>
<td>Administrative Residency in Nursing Home Settings</td>
<td></td>
</tr>
</tbody>
</table>

Administrative Residency

An administrative residency in a health care organization is offered to all students. Students lacking health services administrative experience are encouraged to complete an administrative residency.
Course Descriptions

Definition of Prefixes

HSA - Health Services Administration;
HSC - Health Sciences; URS-Urban and Regional Studies

HSA 5125 Introduction to Health Services (3). The American health care system is broadly analyzed in social, economic, and political terms, including examination of its major operational and programmatic components as they have evolved in their changing patterns and trends of organizational development.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA 5225. Corequisite: HSA 5227.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 6185.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems in the U.S. with special emphasis on the State of Florida.

HSA 5227 Long Term Care Management II (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care given in nursing homes. Corequisite: HSA 5816.

HSA 5408 Health Services Consumer Behavior (3). Course examines the factors affecting consumer choice in the utilization of types of health services, health services delivery locations, and methods of health care delivery. Examines the role of the provider in consumer behavioral model.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency in Nursing Home Setting (3-6). Students will spend 480 hours of supervised practice in a selected nursing home to gain experience in organization and management within the nursing environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227.

HSA 6147 Comparative Health Systems and International Health Planning (3). Students are directed through a study of the social, economic, political, and cross-cultural aspects of comparing health care systems of different countries of the world in terms of international perspective and relevance to future developments in the U.S. system.

HSA 6149 Strategic Planning and Marketing of Health Care Services (3). Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the health services industry. Prerequisites: HSA 6175 and HSA 6415, or permission of the instructor.

HSA 6155 Health Policy and Economics (3). The impact of government, private sector, and various interest groups on health care policy determination is analyzed through the application of basic economic principles. Prerequisite: HSA 6175 or Permission of the instructor.

HSA 6175 Financial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisite: HSA 5125, HSA 6185, HSA 6176, or Permission of the instructor.

HSA 6176 Financing & Reimbursement of Health Systems (3). Financing models for health delivery systems are examined. Reimbursement strategy of medicare, medicaid and other third party payors are analyzed. Prerequisites: Accounting and microeconomics or Permission of the instructor.

HSA 6185 Health Services Organization and Management I (3). This is the anchoring course for examining each specialized study of the management functions in theory and in practice as they apply to health care organizations of both public and private sectors.

HSA 6186 Health Services Organization and Management II (3). General theories of organizational behavior and executive functions are examined in their application to hospitals and other health agencies. Prerequisite: HSA 6185 or instructor's permission.

HSA 6195 Quantitative Managerial and Applied Research Methods (3). Surveys the operations research tools and techniques used in health care organizations to solve operational and control problems that impact on efficiency, effectiveness, productivity, technological change, innovation, retrofitting. Prerequisite: Permission of the instructor.

HSA 6197 Design and Management of Health Information Systems (3). The development and management of health information systems to support managerial decision-making. Emphasis is on the integration of clinical, personnel, and financial data.

HSA 6205 Hospital and Health Facilities Organization (3). Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care
facilities. Prerequisites: HSA 5125, HSA 6185 or Permission of the instructor.

HSA 6215 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMO's) and other group medical practices operating under various financial arrangements, including prepayment. Prerequisite: HSA 5125, HSA 6185, or Permission of the instructor.

HSA 6245 Mental Health Administration and Planning (3). Psychiatric and mental illness institutions are examined in terms of specialized organizations and administrative knowledge required for the operation of these types of health care facilities and their particular patient populations. Prerequisite: Permission of the instructor.

HSA 6415 Managerial Applications of the Social Determinants of Health (3). Social, psychological, and cultural determinants of health and their impact on health behavior and utilization are examined. Implications explored for managerial decision-making and health policy. Prerequisite: Computer Skills.

HSA 6426 Health Law and Legal Aspects of Management (3). The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisite: HSA 6185 or Permission of the instructor.

HSA 6717 Advanced Health Services Management and Research Seminar (3). Integrates the theoretical and practical knowledge of other courses and activities in the curriculum. Selected case studies and relevant research provide the substantive framework for seminar analysis of issues and policy questions. Prerequisite: Completion of all other course work or Permission of the instructor.

HSA 6756 Applied Programs Development and Evaluation Methods in Health Services (3). Program evaluation as part of ongoing assessment of effectiveness and resource consumption (costs). Evaluation methods and study design are analyzed. Grant proposal writing is emphasized. Prerequisite: URS 6155 and HSA 6415.

HSA 6875 Administrative Residency (2-6). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisite: HSA 6930 and Approval of the Coordinator.

HSA 6905 Graduate Independent Study (1-6). This course is designed to allow students an opportunity for in-depth literature research or an action-oriented project carried out under the supervision of their faculty advisor. Prerequisite: Permission of faculty advisor.

HSA 6930 Professional Seminar in Health Services Management (1). A professional seminar to provide career development skills in preparation for residency or masters project. Prerequisite: Completed 36 credit hours in program.

HSA 6977 Masters Research Project (2-6). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: HSA 6930 and Permission of advisor.

URS 6130 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how that manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations.

URS 6155 Applied Statistics for Urban Services (3). A broad-gauged introduction to statistical and forecasting tools appropriate for public, non-profit, and health professionals. Course work will stress applications over derivation, with attention paid to how quantitative methods are integrated into organizational analysis and policy making. Prerequisites: PAD 5716 or equivalent.

URS 6654 Applied Organization Theory and Behavior (3). This course provides an overview of organization theory and organization behavior. Emphasis is on contemporary approaches to improving the overall effectiveness of public and health care organizations.
Public Administration

Ronald M. Berkman, Professor and Dean
Harvey Averch, Professor
Fred Becker, Associate Professor
James Carroll, Professor and Doctoral Coordinator
Milan Dluhy, Professor
Howard Frank, Associate Professor
Jean-Claude Garcia-Zamor, Professor
Donald Klingner, Professor and Coordinator
Ralph Lewis, Associate Professor
Valerie Patterson, Visiting Assistant Professor
Lourdes Rassi, Assistant Dean and Visiting Professor
Keith Revev, Assistant Professor
Allen Rosenbaum, Professor
Barbara Yarnold, Assistant Professor

Master of Public Administration

The Master of Public Administration prepares students for careers in public service and non-profit organizations. It also prepares students for private sector positions having significant contact with public organizations. The degree provides pre-service and mid-career students with an appropriate mix of technical and generalist skills needed for management and analytic positions in local, state, and federal government, as well as non-profit organizations. Students are given a broad-gauged exposure to the field in the core and subsequently develop expertise within their areas of specialization. The degree also provides students with the necessary analytic and substantive background for successful pursuit of doctoral studies within the discipline. Graduates are well-prepared for positions as city manager, finance director, budget analyst, personnel director, special project coordinator and program analyst.

The Graduate Program in Public Administration is accredited by the National Association of Schools of Public Affairs and Administration. Accreditation by this agency ensures the student that the program has been reviewed and meets the national standards for graduate studies in the field.

Admission Requirements

All applicants must hold a baccalaureate degree from an accredited college or university. In addition, each applicant must have a Graduate Record Examination (GRE) composite score of at least 1000 on the Verbal and Quantitative sections or a GPA of 3.0 or higher for all college course work at the junior and senior levels. All applicants regardless of previous GPA are required to submit the appropriate test scores.

Degree Requirements

The Master of Public Administration (MPA) program requires a minimum of 42 semester hours, consisting of 11 required courses (33 semester hours), and a minimum of three courses within the specialization.

Core Courses

The MPA core consists of the following eleven courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5256</td>
<td>Public Economics and Cost Benefit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6053</td>
<td>Political, Social and Economic Context of  Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6056</td>
<td>The Practice of Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Finance and the Budgetary Process</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6436</td>
<td>Professionalism and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>URS 6xxx</td>
<td>Human Resource Policy and Management</td>
<td>3</td>
</tr>
<tr>
<td>URS 6028</td>
<td>Policy Analysis and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URS 6155</td>
<td>Quantitative Methods and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>URS 6654</td>
<td>Applied Organization Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>URS 6658</td>
<td>Leadership and Decision-making</td>
<td>3</td>
</tr>
<tr>
<td>URS 6806</td>
<td>Applied Research and Evaluation Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Additionally, PAD 6053, URS 6155, URS 6806, and PAD 5256 must be taken during the first 18 credit hours of course work. Students who cannot demonstrate basic microcomputer literacy should take PAD 5716, Management Support Systems in Public Organizations, prior to enrolling for URS 6155. URS 6155 is a prerequisite for URS 6806. PAD 5256 is a prerequisite for URS 6508.

PAD 6056, The Practice of Public Management, is a capstone experience for the program and must be taken during the last semester of course work.

Grading, Sequencing, and Substitution Policy

Students must maintain a 3.0 GPA to graduate. A grade of 'C' or better is required for every core course. Note: A 'C-' is not acceptable.

The Program reserves the right to withhold the awarding of credit for course work taken out of sequence and without appropriate prerequisites.

Any core course with the exception of PAD 6056 may be waived through petition to the Program Director and MPA Coordinator. The petitioner must demonstrate the equivalence of the previous course work, and prove that their performance met or exceeded core requirements.

Students entering the MPA Program with a Bachelor of Public Administration or equivalent degree may elect to substitute a fifth specialization course or other elective, for PAD 6053. Students who enroll for PAD 5716, Management Support Systems in Public Organizations, may count this towards their area of specialization.

Specializations

At least three more courses (9 credit hours) must be taken in one of the following specializations, which are designed to strengthen the student's knowledge in a specific functional or policy area of public administration.

Human Resource Policy and Management

Students must take three out of the following eight courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5043</td>
<td>Government and Minority Group Relations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5427</td>
<td>Collective Bargaining and the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5435</td>
<td>Administrator and the Role of Women</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5460</td>
<td>Productivity Improvement</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5616</td>
<td>Contracting and Managing Third Party</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6437</td>
<td>Dynamics of Individual Growth</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6605</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>URS 6436</td>
<td>Professionalism and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Urban Management

Students must take the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6807</td>
<td>Urban and Municipal Government Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must take three of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5460</td>
<td>Productivity Improvement</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5616</td>
<td>Contracting and Managing Third Party</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6205</td>
<td>Public Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>
PAD 6229 Advanced Management Techniques 3
PAD 6816 Regional and State Government Administration 3
PAD 6816 Administrative Law 3
URP 5313 Introduction to Urban Planning and Growth Management 3
URP 5426 Emergency Management and Planning 3
URS 5505 Economic Development and Urban Revitalization 3
URS 5655 Strategic Planning in Public and Non-Profit Organizations 3
URS 5657 Continuous Quality Improvement 3

Outside Specializations

Students who wish to construct their own concentrations in cognate areas of public administration such as criminal justice, environmental and urban systems, economics, gerontology, social work, or anthropology may do so under the following conditions:
1. Students must obtain the approval of the graduate coordinator.
2. Students must satisfy all core requirements for the MPA; and
3. The outside concentration must have a minimum of 9 semester hours in addition to the 33 semester hour core. Pre-service students (those with less than two years post-baccalaureate work experience) are strongly encouraged to enroll in PAD 6946 (Internship) to supplement their academic course work. Students are normally limited to three semester hours of internship credit for their program of studies. Students seeking to enroll in either PAD 6907 or PAD 6915 for more than three credit hours must obtain permission from the Program Coordinator prior to registration.

Doctor of Philosophy

The Doctor of Philosophy in Public Administration (Ph.D.) is designed to prepare students for senior level positions in public, nonprofit, and health organizations, and to engage in research for academic or other policy analytic positions. The degree provides a sound foundation in current administrative practice in public administration and its cognate disciplines within the School of Policy and Management. Doctoral students will be expected to demonstrate significant research capacity in these disciplines, through the writing of a dissertation.

Admission Requirements

Generally, applicants must have a Master’s degree prior to program enrollment, though outstanding applicants may also be considered with only a baccalaureate degree. Admission is not restricted to students with prior course work in Public Administration and the Program encourages applicants with diverse academic backgrounds.

Admission into the Ph.D. program will be granted to students of superior ability who have demonstrated a record of previous academic success, good potential for continued success in doctoral studies, and a desire to prepare for a career in which scholarship, research, and analysis are major elements. To document these qualities applicants must complete a University application form and submit a written personal statement concerning the reasons for pursuing a Ph.D. in Public Administration, a current resume, official GRE test scores, official transcripts of previous college course work, three recommendations using the Program’s recommendation form, and samples of written work. Applicants who reside within a 50 mile radius of Miami must interview with Ph.D. Program Faculty. All students are encouraged to speak with the Ph.D. Coordinator prior to submitting an application.

Generally, an applicant is expected to have, at minimum, a GPA of 3.5 or better for all graduate course work and a combined score of 1050 on the GRE quantitative and verbal sections, with a minimum of 500 on each of these components. Students whose language of nurture is not English must achieve a minimum of 600 on the Test of English as a Foreign Language (TOEFL). Students must also demonstrate knowledge of American political institutions and fundamentals of social research methods and microcomputers. The admission process is competitive and the Program considers all of the evidence in the application file in making its decision. Meeting the minimum requirements does not guarantee admission and applicants failing to meet the minimum requirements may be admitted based on other evidence of potential.

Admitted students may transfer a maximum of six semester credits (not included in another degree) from other institutions toward Ph.D. degree requirements. Admitted students must demonstrate competence in inferential and descriptive statistics with regression, applied microeconomics and policy analysis, organization theory and design, social science research methods, personnel and workplace issues, and microcomputer literacy, or take remedial courses in these areas prior to core course work. All incoming Ph.D. students who have not taken Master’s level research methods and quantitative skills classes within three years of admission will be given a diagnostic examination in these areas. Students with identified deficiencies will be assigned remedial work specified by the Program.

Financial Aid

The objective of financial aid is to provide direct assistance to those students who require financial assistance to complete their doctoral programs, and to enhance the reputation of the program by attracting an outstanding cadre of students.

To receive financial aid from University and Program sources, doctoral students must be enrolled full-time (9 semester hours during the term in which they receive financial aid). Program assistance is reserved for students with no outside employment.

The exact amount of financial assistance depends upon funding provided by the University and the legislature. The current level of Program assistance is between $9,000 and $16,000 annually. Students on assistantships are eligible for matriculation fee waivers paying the bulk of the tuition.

Program financial aid is awarded in one-year blocks, and is generally provided for three years of the student’s doctoral study. Non-resident applicants may also apply for waiver of out-of-state tuition by contacting the Program at the time of admission.

The University has a variety of other financial aid opportunities including graduate grants (currently $800 per semester for in-state students and $1500 per semester for non-residents), scholarships, loans, work-study programs and targeted scholarships. Information on these and other opportunities are available through the University and College financial aid offices.

To apply for a Program assistantship, students should notify the Ph.D Coordinator of their intent at the time of application. For matriculation fee waivers and University assistantship, students must file the University’s
Financial Aid Form (FAF) and the other University aid documents. Information on the university procedures is available in the financial aid office of the College of Urban and Public Affairs and in the University’s Financial Aid Office.

Degree Requirements
To obtain the degree, admitted students must complete at least 69 semester hours beyond the Master’s degree, or its equivalent, including 45 semester hours of approved course work and 24 hours of dissertation work after admission to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment in the Ph.D core curriculum, and a minimum of six hours required in all subsequent semesters, as set forth in the Doctoral Program in Public Administration Handbook.

Successful completion of course work and passing scores on the comprehensive examination are required before students can advance to candidacy for the Ph.D and present a dissertation proposal. The Doctoral Program in Public Administration Handbook also sets forth benchmarks for student progress in grade point average, course completion, comprehensive examinations and dissertation work.

Program of Study
The Doctor of Philosophy in Public Administration is a 89 semester hour program with eight required courses (27 semester hours); two additional research tools electives (six semester hours); four courses within the student’s specialization (12 semester hours); and Dissertation (24 semester hours).

During the first semester of the program, students are required to select, with the assistance and approval of the Ph.D Coordinator, advisory committees chaired by a Program faculty member and including at least two additional members. By the end of the first semester, students are required to develop a program of study with the assistance and approval of their advisory committee, the Program Director.

Core Curriculum: (27)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 7026</td>
<td>Proseminar in Public Administration and Policy</td>
<td>3</td>
</tr>
<tr>
<td>PAF 7002</td>
<td>Foundations of Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>URS 7153</td>
<td>Research Practicum</td>
<td>6</td>
</tr>
<tr>
<td>URS 7154</td>
<td>Applied Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>URS 7379</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>URS 7380</td>
<td>Contemporary Management Issues and Problems</td>
<td>3</td>
</tr>
<tr>
<td>URS 7644</td>
<td>Managing Public Resources</td>
<td>3</td>
</tr>
<tr>
<td>URS 7655</td>
<td>Evaluating</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Tools Courses: (6)
Students must complete at least six hours of course work, three hours of which must be PAD 7705. The additional course work is selected with the advice of the student’s advisory committee and the program director and must be approved as part of the student’s program of study.

Specialization Courses: (12)
Students are required to take four courses in an area of specialization to be designed with the Advisory Committee. Three of these courses must be 5000, 6000, or 7000 level courses to be taken within the University, or specially designed course developed by the student’s advisors. One course, URS 7926, Supervised Readings, will be required of all students and is to be taken in conjunction with URS 7155, Research Practicum, during the last semester of course work prior to sitting for the comprehensive examination.

18 and 36 Credit Hour Review
The student's performance will be carefully monitored at 18 and 36 credit hours, respectively, after full admission to the Program. The Public Administration Doctoral Handbook establishes guidelines and criteria to be employed for the review. Less than satisfactory reviews may result in modified Programs of Study due to remedial course work, or dismissal from the Program.

Students may develop their own specialization in areas of their choice relevant to Public Administration and Public Policy, such as Health Services Administration, Environmental Policy, Urban Planning, etc. All specializations are developed after consultation with and upon approval of the advisory committee and program director.

Comprehensive Examination
After the completion of all course work, students will be given a written examination, testing their knowledge of Public Administration and Policy Analysis and their specialization. Upon passing the components of the comprehensive examination, the student may apply for advancement to candidacy for the Ph.D.

Students who fail the Comprehensive Examination on the first attempt must retake the examination at its next offering. Students who fail the examination twice are automatically dismissed in accord with general University policy.

Dissertation: (24)
Upon successful completion of the comprehensive examination, students select their dissertation guidance committee and begin preparation of their dissertation proposal. Students are expected to defend their dissertation prospectus before the end of the first semester subsequent to passing the Comprehensive Examination.

Upon the public defense and approval of the proposal, the student will initiate formal work on the dissertation. During this time, the student is expected to make appropriate progress toward completing the dissertation, and to enroll continually (at least six credits per semester) until the degree is completed. Upon completion of the dissertation, candidates will formally defend the research at a meeting conducted by the Dissertation Committee. The degree will be awarded upon a positive recommendation of the Committee and compliance with all policies and procedures required by the University.

Certificates
The Program offers certificates in Human Resource Policy and Management, International Comparative Development Administration, and Public Management. Please refer to the Certificate section under the College for detailed information.

Course Descriptions
Definition of Prefixes
CGS-Computer General Systems; MAN-Management; PAD-Public Administration; PAF-Public Affairs; PUB-Public Policy; URS-Urban and Regional Studies.

CGS 6301/MAN 6830 Management Information Systems (3). Introduction to the application of computers to information processing problems in organizations. This includes a survey of the basic computer hardware and software concepts necessary for users
to work with information processing personnel. The rudiments of a computer programming language will be taught, and applied to data processing problems. Consideration will also be given to the managerial aspects of information systems planning and development.

PAD 5041 Values and Technology in Modern Society (3). Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

PAD 5043 Government and Minority Group Relations (3). Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

PAD 5256 Public Economics and Cost-Benefit Analysis (3). This course provides the quantitative and qualitative tools and case material to solve allocation problems in the public sector. Applied microeconomic theory, welfare economics, and market and government failure are analyzed as are the public alternatives available. Benefit-cost analysis, the ethics of applied practice, and the important skills of communicating with decision makers are taught.

PAD 5416 Social Equity and Human Resource Management (3). The course deals with the human resource management issues arising from equity and affirmative action requirements in the workplace.

PAD 5427 Collective Bargaining in the Public Sector (3). The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

PAD 5435 Administration and the Role of Women (3). The course is designed for women and men who are interested in moving into management positions, or who have done so and want to broaden their understanding of the changing role of women. Classes will allow for experimental as well as academic exploration of the issues. The course will also explore design, implementation, and evaluation of affirmative action programs.

PAD 5443 The Public Administrator and Media Relations (3). Surveys the government-mass communication media relationship, and then concentrates on the ways in which public managers handle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

PAD 5460 Productivity Improvement (3). Provides measures to improve organizational and worker productivity using applied behavioral science.

PAD 5616 Contracting and Managing Third Party Governments (3). Analyzes the legal foundations, administrative and economic characteristics of government instrumentalities as they are used to pursue public policy. Analyzes how and why different combinations of instrumentalities are used in different policy areas.

PAD 5660C Applied Legal Context of Public Administrators (3). An overview of constraints and latitude the legal system grants to public administrators and managers. Provides the applied legal information required to make effective decisions in the public sector.

PAD 5661C Management of Court-Agency Relations (3). Examines applied judicial-administrative relations with particular emphasis on administrative policymaking. Covers the legal, environmental, and political factors that influence administrative strategies of policy and program compliance.

PAD 5716 Management Support Systems in Public Organizations (3). The course examines a variety of computer-based management support applications used in public sector organizations. It also explores design and implementation issues endemic to the public sector.

PAD 5934 Contemporary Issues in Public Administration (3). An analysis of major conceptual issues currently facing public administrators. May be repeated.

PAD 6042 Democracy and the Administrative State (3). Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy - in practice as well as in theory - will be analyzed, and their implications for public organizations and individual administrators examined.

PAD 6053 Political, Social and Economic Context of Public Administration (3). Examines the context in which public organizations operate, stressing the relationship between such organizations and their multifaceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous course work in analytic exercises related to students' areas of specialization. Prerequisites: Completion of MPA Core; last semester of course work status.

PAD 6106 Organization Theory and Administrative Behavior (3). Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6224 Advanced Seminar in Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and appropriate methodological design for addressing them. Prerequisites: PAD 6227, PAD 6229, and PAD 6205.)
PAD 6225 Comparative Public Budgeting (3). Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

PAD 6227 Public Finance and the Budgetary Process (3). Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in intergovernmental financial relations.

PAD 6229 Advanced Management Techniques (3). Explores quantitative revenue and expenditure models and other techniques which address public sector decision making under conditions of resource constraint. Prerequisites: PAD 5256, PAD 6205 or Permission of the instructor.

PAD 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6015. (S)

PAD 6437 Dynamics of Individual Growth (3). This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student; and will look at existential theory and the dilemma of personal growth.

PAD 6605 Administrative Law and Procedures (3). Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balances system; discretionary justice; and others.

PAD 6715 Public Monitoring Systems for Government Organizations (3). Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

PAD 6807 Urban and Municipal Government Administration (3). Detailed examination of problems facing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities. Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.

PAD 6816 Regional and State Government Administration (3). Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policymaking.

PAD 6836 International Public Administration (3). The role of public administration systems around the world; and the impact of political and socio-cultural frameworks on administration. Focus on national and state organizations' politics, economics, problems, and possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 6838 Development Administration (3). The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

PAD 6839 Comparative Public Policy (3). This course addresses policy formulation and implementation as a general process of administrative action that can be investigated among the varying nation-states. It covers the differences in policy and explores patterns implicit in those differences. Prerequisite: PAD 6836 or PAD 6838.

PAD 6907 Independent Study in Public Administration (1-6). Normally 3 credit hours) Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6915 Independent Research in Public Administration (1-6). Normally 3 credit hours) An individualized research project and report which, if feasible, should include field work with a public organization. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6946 Public Administration Internship (1-6). Normally 3 credit hours) Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. Consent of faculty advisor and Program Director required.


PAD 7055 Scope and Theory of Public Administration (3). An integrative capstone seminar in which traditional Models of Public Administration are explored and employed to analyze the structures and dynamics of public organizations and to develop alternative Models and new theoretical perspectives concerning the scope and theory of the field.

PAD 7102 Advanced Organization Theory (3). Philosophical foundations of contemporary organization theory, with emphasis on dynamic interfaces between the environmental contexts and organizations, critical analysis of both the normative and incremental orientation of concepts, theories, models, and applications. Prerequisite: PAD 6106 or equivalent.

PAD 7257 Economic Context of Government (3). This course examines interdisciplinary approaches to collective decision making and the delivery of public goods and services. Prerequisite: PAD 5256.
PUP 6006 Public Policy Analysis and Evaluation (3). A framework for evaluating public policy-making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

PUP 6015 Public Policy (3). An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, etc.) are examined.

URP 5314 Introduction to Urban Planning and Growth Management (3). An historic overview of land use planning and the rise of growth management with emphasis on implementation in complex market and political environments.

URP 5426 Emergency Management and Planning (3). This course focuses on the concepts, processes, and techniques associated with developing and implementing emergency management plans in public, nonprofit, and health organizations.

URS 5505 Economic Development and Urban Revitalization (3). This course is an interdisciplinary examination of research and practice in contemporary economic development, with emphasis on successful implementation in a variety of settings.

URS 5645 Strategic Planning in Public and Non-Profit Organizations (3). This course exposes students to the concepts associated with strategic planning of public and nonprofit organizations and provides them with practical experience in their use.

URS 5647 Continuous Quality Improvement (3). This course provides an in-depth exposure to the concepts, principles, and techniques associated with continuous quality improvement (CQI) applied to public, nonprofit, and health organizations.

URS 6028 Policy Analysis and Program Planning (3). This course presents techniques and tools for the practice of policy analysis in public, nonprofit, and health organizations, with emphasis on constructing policy analysis useful to decisionmakers.

Prerequisites: PAD 5256, and URS 6155 or equivalent.

URS 6033 International Telecommunications Policy (3). An exploration of the major technical, regulatory, and economic issues impacting telecommunications policy; discussion of analytic frameworks for policy adoption.

URS 6130 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how the manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations.

URS 6155 Quantitative Methods for Policy & Management (3). An intensive introduction to statistical and forecasting tools appropriate for public, nonprofit, and health professionals. Prerequisites: URS 4112 or equivalent.

URS 6158 GIS Applications for Urban Management (3). Geographic Information System Applications for Urban decision makers and social sciences. Prerequisite: URS 4112 or equivalent.

URS 6378 Leadership and Decision-making (3). Readings and case studies examine how effective leaders in the public and non-profit sectors make decisions in fluid and challenging environments.

URS 6436 Professionalism and Ethics (3). Examines behavioral approaches toward understanding the personal world of public managers with emphasis on knowledge, skills, and abilities which aid effective goal accomplishment.

URS 6654 Applied Organization Theory and Behavior (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

URS 6806 Applied Research and Evaluation Techniques (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of
research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design. Prerequisite: URS 6155.

**URS 7031 Information and Telecommunications Design and Policy (3).** The managerial and public policy implications of innovations in the 'information super highway'; establishment of intra and interorganization capacity for dealing with continued development in the field. Prerequisites: Ph.D. status or Permission of the instructor.

**URS 7156 Research Practicum (6).** An integrative studio course intended to produce a defensible dissertation prospectus and significant empirical research project; may be repeated for credit. Prerequisites: Completion of Ph.D. tool requirement, and URS 7157.

**URS 7157 Applied Research Methods (3).** Extensive exploration of designs utilized in contemporary social and policy science research with emphasis on triangulated models. Prerequisites: Completion of tools requirement in program of studies or Permission of the instructor.

**URS 7379 Leadership Development and Decision-Making (3).** Leadership as the focal point for organizational development, resource allocation, and 'fit' within the environment; emphasis on effective leadership in the public, health, and nonprofit sectors. Prerequisites: Ph.D. status or Permission of the instructor.

**URS 7380 Contemporary Management Issues and Problems (3).** A proseminar on workplace issues such as AIDS, the Americans with Disability act, and 'the Glass Ceiling'. Special emphasis on diversity and increased utilization of contractual employees. Prerequisites: Ph.D. status or Permission of the instructor.

**URS 7644 Managing Public Financial Resources (3).** An integrative seminar treating taxation, public budgeting, debt management, and evaluation, in the context of a globally competitive economy. Prerequisites: Ph.D. status or Permission of the instructor.

**URS 7655 Evaluating Organizational and Program Performance (3).** Methodology and conceptual frameworks needed to augment organizational effectiveness while enhancing the accountability of public, health, and nonprofit organizations. Prerequisites: Ph.D. or Permission of the instructor.

**URS 7926 Supervised Readings (3).** Extensive reading and review in area of concentration taken in preparation for comprehensive examinations; supervised by Chair of Program Advisory Committee, may be repeated for credit. Corequisite: URS 7156.
School of Social Work

Master of Social Work

The School of Social Work, at Florida International University, offers an integrated program that leads to the Master of Social Work (MSW) degree. The program is designed to give the student professional education for the advanced practice of social work. The curriculum applies a bio-psycho-social model within the context of a social systems framework to understand client systems, address problems and develop interventions.

All students will be required to acquire or to possess the common base in the areas of professional study considered essential in social work education: human behavior and the social environment, social welfare policies and services, research, and social work practice. The knowledge acquired in the professional courses will be applied in supervised field experiences in social agencies.

The program offers an advanced concentration in direct services to children and families and in direct services to the elderly. Students complete a field practicum program that supports practice in the specialized field. With the help of faculty, students will develop individualized programs in the concentration most likely to meet their educational needs and contribute to their professional objectives. The program provides a curriculum, which meets the current educational requirements for clinical licensure in Florida.

For additional information regarding the graduate social work program of study and degree requirements, contact the School of Social Work directly at (305) 348-5880.

The Master of Social Work Program at Florida International University is accredited by the Council on Social Work Education.

Admission Requirements

Applicants to the graduate program are required to meet the minimum standards set forth by the Florida Board of Regents and the graduate social work program. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or at least a 3.0 average in all upper-level division work. Application procedures for admission to graduate study are found in the current university catalog. An application to the University, an application to the Social Work graduate program, a personal narrative, and three letters of reference are required for admission. A personal interview may be requested. All applicants should have had college-level courses in biology (including coverage of Human Biology) and statistics and 12 semester hours in the social and behavioral sciences.

Applicants with a B.S.W. degree from a program accredited by the Council on Social Work Education will be considered for admission to Advanced Standing. Applicants for the Advanced Standing program will not be awarded any transfer credit, substitutions, or exemptions. Advanced Standing is not automatically granted. It is subject to successfully completing the Advanced Standing prerequisite course requirements with grades of 'B' or higher. Admission to the second year concentration will be governed by successful completion of these additional requirements to the minimum standards set forth by the Florida Board of Regents and the graduate Social Work program.

In addition to the College and University policies governing transfer credit the following regulations apply:

1. Courses taken in a Master of Social Work program, accredited by the Council on Social Work Education, in which the applicant was fully admitted, may be transferred up to a maximum of 30 semester hours.

2. Graduate courses taken in other than CSWE accredited Social Work programs and that were not used to satisfy the requirements of another degree, may be transferred up to a maximum of 6 semester hours.

3. Students in the Advanced Standing Program will not be awarded transfer credits.

4. Required concentration courses (6000 level) are not transferable.

Degree Requirements

The Master of Social Work program is a 60 semester hour program composed of a 30 semester hour foundation followed by 30 semester hours of concentration courses in the second year. The Advanced Standing Master of Social Work is composed of 11 semester hours of prerequisite courses and 30 semester hours of concentration courses. The Advanced Standing Block must be successfully completed before advancing to the second year.

An overall GPA of 3.0 is required for graduation. Any required course in which a student receives a grade lower
than ‘B’ must be retaken. (A grade of ‘B’- is not acceptable.) A passing grade in field practicum courses is required for continuation in the program. Field courses cannot be repeated.

A student must successfully complete all work applicable to the Master of Social Work program within 48 months from initial admission. In unusual circumstances, and if the reasons warrant it, a student may petition the School Director for an extension of the time limit.

First Year

Required Courses: (30)

- SOW 5105 Human Behavior and the Social Environment I 3
- SOW 5125 Human Behavior and the Social Environment II-Psychopathology 3
- SOW 5324 Theory and Practice with Groups 3
- SOW 5342 Practice with Individuals and Families 3
- SOW 5344 Theory and Practice with Communities and Organizations 3
- SOW 5404 Social Work Research Methodology 3
- SOW 5532 Field Practicum I 5
- SOW 5542 Integrative Field Seminar I 1
- SOW xxxx Direct Social Work Practice Elective 3

Advanced Standing

Required Prerequisite Courses: (11)

- SOW 5125 Human Behavior and the Social Environment II-Psychopathology 3
- SOW 5324 Theory and Practice with Groups 3
- SOW 5541 Advanced Standing Seminar 2
- SOW xxxx Direct Social Work Practice Elective 3

Students are required to complete all of the First Year Courses and be fully admitted before enrolling into any of the 6000 level Concentration courses.

Second Year

Concentration Requirements: (30)

Services to Children and Families

- SOW 6243 Child and Family Social Policy Issues 3
- SOW 6351 Intervention Strategies in Marriage & The Family 3
- SOW 6435 Evaluative Research in Social Work 3
- SOW 6655 Intervention Strategies with Children & Adolescents 3
- SOW 6535 Field Practicum II 8
- SOW 6543 Integrative Field Seminar II 1
- SOW xxxx Direct Social Work Practice Elective 9

Services to the Elderly

- SOW 5641 Understanding the Process of Aging 3
- SOW 6359 Social Work Practice in Long Term Care and the Elderly 3
- SOW 6649 Social Work Practice in Long Term Care and the Elderly 3
- SOW 6245 Social Welfare Policy and Services for the Elderly 3
- SOW 6435 Evaluative Research in Social Work I 3
- SOW 6535 Field Practicum II 8
- SOW 6543 Integrative Field Seminar II 1
- SOW 6646 Social Work Practice with the Elderly 3
- SOW xxxx Social Work Direct Practice Elective 6

Students in the elderly concentration who have taken SOW 5641 have two concentration elective options.

Doctor of Philosophy in Social Welfare

The Doctor of Philosophy in Social Welfare (Ph.D. in Social Welfare) is designed to prepare students for active research careers and leadership roles in social welfare, social work, and social work education. The major purpose of the program is the development of research knowledge for the design, testing and implementation of effective interventions for social problems at all levels of intervention from direct practice to social welfare policy.

The overarching emphasis in the Ph.D. program is on research to develop more effective interventions to address the social problems and meet the human needs of multicultural populations and communities. Students will pursue individualized courses of study focused on areas of specialization related to the social problems and levels of intervention of particular interest to the student. Mastery of state of the art research methodologies and data analysis techniques is a key part of the program, and students will have an opportunity to conduct intervention research under the direction of experienced faculty members. Preparation for teaching is also offered in the program.

Admission Requirements

Admission to the Ph.D. program in Social Welfare will be granted to students of superior ability who have been admitted to the graduate program of Florida International University. Applicants are required to submit:

1. A Master’s degree in Social Work from an accredited school of social work, or in a closely related field.
2. Evidence of superior academic achievement in undergraduate and graduate education, including a 3.25 undergraduate GPA and a 3.5 graduate GPA.
3. A composite quantitative and verbal score of at least 1000 on the Graduate Record Examination (GRE).
4. Documentation of completion of courses in statistical methods and research methodology with grades of ‘B’ or better.
5. Students for whom English is a second language must have a TOEFL score of 550 or higher.
6. Three letters of recommendation (two academic and one professional);
7. Two examples of written scholarly work;
8. A personal statement describing the applicant’s professional and research interests and objectives.

All applicants must be approved by the Doctoral Committee. Applications for Fall semester admission are due by April 30 of the year of application.

Degree Requirements

To be awarded the Ph.D. degree, admitted students must complete two years of full-time course work plus a dissertation. The curriculum includes courses and seminars on theories of intervention, research priorities in social work and social welfare, issues in social welfare policy, research methodology, quantitative methods, and an individualized course of study in the social and behavioral sciences. Students will have the opportunity to select tutorials with social work faculty on topics related to the student’s specialized social problem and intervention interests. Other degree requirements include:

One year of residency, (i.e., completion of at least two consecutive semesters of full-time study during the first year following admission to the Ph.D. program); successful passage of faculty review at the end of the first year; successful completion of all required course work with a grade of ‘B’ or higher; passing scores on written and oral comprehensive examinations; under the guidance of a Dissertation Com-
mittee, selection of a dissertation topic, preparation of an acceptable dissertation research project, completion of dissertation research, and defense of the dissertation.

Program of Study
The Doctor of Philosophy in Social Welfare is a 64 semester hour program comprised of 14 required courses and 24 semester hours of dissertation study.

Course Offerings
SOW 5932 Seminar in Social Work: Interdisciplinary Seminar 3
SOW 6914 Independent Research 1
SOW 7237 Research Topics in Micro-Practice Interventions 3
SOW 7238 Research Topics in Macro-Practice Interventions 3
SOW 7492 Research Methods in Social Welfare 1 3
SOW 7493 Research Methods in Social Welfare 2 3
SOW 7494 Advanced Social Welfare Research 3
SOW 7682 Social Systems Models and Methods 3
SOW 7916 Supervised Research 6
SOW 7936 Dissertation Seminar in Social Welfare 3
SOW 7939 Seminar on Social Work Education 3
SOW 7980 Dissertation Research 24
STA 6166 Statistical Methods I 3
STA 6167 Statistical Methods II 3

Course Descriptions
Definition of Prefixes
SOW - Social Work.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

SOW 5105 Human Behavior and the Social Environment I (3). Study of individuals and families with emphasis on the analysis of bio-psycho-socio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology (including coverage of human biology).

SOW 5109* Crises in the Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, domestic violence, rape, abortion, childbirth, sex discrimination, AIDS, climacteric, widowhood. Prerequisite: Senior or graduate standing.

SOW 5125 Human Behavior and the Social Environment II-Psychopathology (3). Study of the psychosocial aspects of client problems, including psychopathology, frequently encountered by social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5105. (S,SS)

SOW 5235 Social Welfare Policy and Services (3). This course analyzes major social welfare policies and programs in the United States, their emergence, development, contemporary operations and how they shaped the development of the Social Work profession. (F)

SOW 5307* Behavior Therapy in Social Work Practice (3). Overview of the principles, clinical foundations, and applications of socio-behavioral approaches relevant to social work practice. Emphasis on behavioral change methods and problem solving in assessment, intervention, and evaluation.

SOW 5324 Theory and Practice With Groups (3). Study and application of biopsychosocial, cultural dimensions, theories, techniques and intervention strategies for social work group practice. Prerequisites: SOW 5342 and SOW 5344. Corequisite: SOW 5532 and SOW 5542 (for first year students) or SOW 5541 and SOW 5125 (for advanced standing students).

SOW 5342 Social Work Practice with Individuals and Families (3). This course is an overview of social work practice with individuals and families placing emphasis on professional values, interviewing skills, assessment, intervention, and outcome evaluation, all within a cross-cultural perspective. Corequisite: SOW 5105. (F)

SOW 5344 Theory and Practice with Communities and Organizations (3). Study and application of biopsychosocial-cultural dimensions, theories, techniques and intervention strategies for communities and organizations. Focuses on empowerment of populations at rich and promotion of social and economic justice. Prerequisites or Corequisites: SOW 5342 and SOW 5105. (F)

SOW 5354* Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or Permission of the instructor.

SOW 5404 Social Work Research Methodology (3). This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics. (F,S)

SOW 5532 Field Practicum I (5). A supervised educational field experience in an agency setting for a minimum of 384-clock hours designed to provide students opportunities to develop and apply generic practice skills in working with individuals, families, groups and communities. Prerequisites: SOW 5105, SOW 5125, SOW 5344, SOW 5404, SOW 5235, SOW 5342. Corequisites: SOW 5324, SOW 5542. (S,SS)

SOW 5541 Advanced Standing Seminar (1). This course examines the integration of academic knowledge and social work skills that develop the profession's critical thinking foundation. Prerequisites or Corequisites: SOW 5125, SOW 5324. (SS)

SOW 5542 Integrative Field Seminar I (1). This bi-weekly seminar, taken concurrently with the first field practicum (SOW 5532), requires students to analyze their field experience and integrate theory and practice. It provides an arena for students from various settings to come together in order to provide a richer understanding of social services at all levels. Majors only. Corequisites: SOW 5532 and SOW 5324. (S,SS)

SOW 5605* Medical Social Work (3). Principles of medical social work practice in hospitals and communities. Focuses on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisite: Graduate or senior standing.

SOW 5614* Social Work Practice with Persons Affected by Domestic Violence (3). Course prepares students to appropriately identify, assess, and intervene with persons affected by domestic violence utilizing assessment and intervention strategies in practice. Prerequisite: Graduate or Senior standing with the permission of the instructor.
SOW 5621* Social Work with Refugees, Immigrants, and Migrants (3). Provides skills and knowledge responsive to the needs of immigrants and refugees and addresses influences of cultural, ethnic, gender, age, and class differences in acculturation and service delivery. Prerequisite: Graduate or Senior standing with the permission of the instructor.

SOW 5624* Feminist Therapy in Social Work (3). Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisite: Graduate standing or Permission of the instructor.

SOW 5635* School Social Work Practice (3). Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice to improve the functioning of children. Prerequisites: SOW 5342 or Permission of the instructor.

SOW 5641* Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and Permission of the instructor. (F)

SOW 5665* Animal Assisted Treatment for Social Work (3) An introduction to the human animal bond and animal assisted treatment. There will be illustrations of programs using small animals, horses, and dolphins. Prerequisites: SOW 3313 or SOW 5342 or Permission of the instructor.

SOW 5689* Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems and explores treatment intervention modalities. Prerequisite: Graduate or senior level practice course or Permission of the instructor.

SOW 5710* Chemical Dependency and Social Work (3). An overview of chemical dependency in the social service delivery system including policy and program approaches, client assessment, treatment techniques and prevention issues. Prerequisites: SOW 4322 or SOW 5342 or Permission of the instructor.

SOW 5845* Counseling the Elderly (3). Applied gerontological knowledge to counseling skills required for independent as well as frail elderly clients. Course focuses on long and short term interventions in a range of practice settings. Prerequisite: SOW 5641 or Permission of the instructor.

SOW 5905* Individual Study (1-3). Individually selected program of advanced supervised study related to specific issues in social work and social welfare. Prerequisite: Permission of the instructor. (F,S,SS)

SOW 5932* Seminar in Social Work (3). An exploration of various critical issues of concern to the social work profession. Prerequisite: Graduate or senior standing.

SOW 6243 Child and Family Social Policy Issues (3). A comprehensive overview of the range of children and family policies, programs and issues in the U.S.A. in the context of comparing residual and institutional approaches to social service delivery, and policy implications for use of each approach. Prerequisite: Admission to concentration. (F)

SOW 6245 Social Welfare Policies and Services to the Elderly (3). The content of the course will center around the federal/state policies affecting the quality of life of the older person. Among the areas to be considered are an overview of the situation of the aged, specific public and private social welfare policies, including the origin of policy making, and problems involved in the process of implementation of social welfare policies for the elderly. Prerequisite: Admission to concentration. (F)

SOW 6247* Housing and Environmental Needs (3). Examination of housing and broader environmental needs of individuals and families. Focus on needs for security, mobility, privacy, affiliation, and self esteem. Particular attention to the role of the professional social worker in meeting environmental needs. Prerequisites: SOW 5641 and SOW 6245.

SOW 6281* Legal Aspects of Social Work Practice (3). Introduction to legal aspects of social work practice including client and agency rights, malpractice issues, legal research, and practice interaction with legal counsel, legal services, and the courts. (F)

SOW 6351 Intervention Strategies in Marriage and Family (3). This course will provide students with an understanding and application of the major models of social work intervention in working with marriages and families, with critical analysis skills in assessing functioning across the life span and in implementing intervention techniques. The influence of cultural/ethnic differences and how these may affect family relationships and functioning will be assessed. Prerequisite: Admission to concentration. (F)

SOW 6359 Social Work Treatment with Families of the Elderly (3). Preventive and treatment approaches in social work practice with families of the elderly. Focus on aging family as client-system; knowledge, skills needed for a range of interventions are provided. Prerequisites: SOW 5641, SOW 6646.

SOW 6372 Supervision, Consultation and Staff Development (3). Key aspects of the social services supervisory situation are explored. This course emphasizes supervisory competence, issues facing supervisor and supervisee. Also explores consultation and staff development. Prerequisite: Admission to a concentration or Permission of the instructor.

SOW 6386* Social Program Planning and Development (3). Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs do not exist will receive special emphasis. Prerequisite: Admission to a concentration or Permission of the instructor. (F)

SOW 6387* Social Services Management Skills (3). Learning units in which students practice and demonstrate, through simulation and participation, skills in major aspects of social services management. Prerequisite: Admission to a concentration or Permission of the instructor.

SOW 6435 Evaluative Research in Social Work I (3). This course focuses on research designs for evaluating social work practice and social programs. The ethics, politics, and conduct of evaluative research are taught within the context of the purposes, values, and ethics of professional social work practices. Prerequisite: Admission to concentration or Permission of the instructor. (F,S)
SOW 6436* Empirically-Based Practice in Social Work (3). Advanced utilization of intervention effectiveness research results and techniques in social work practice with individuals, families and groups. Prerequisites: SOW 6435 and an advanced practice course in a concentration.

SOW 6535 Field Practicum II (8). This field practicum is a 516-hour supervised educational experience in an agency setting designed to provide the student with an opportunity to develop and practice social work skills in the student's area of concentration. Majors only. Prerequisites: Admission to concentration, SOW 6243, and SOW 6351. Corequisites: SOW 6655, and SOW 6435. (S,SS)

SOW 6543 Integrative Field Seminar II (1). This bi-weekly field seminar taken concurrently with the specialization field practicum in the concentration area requires students to analyze their field experience and integrate theory and practice. It provides an arena for various settings to come together in order to provide a richer understanding of social services. Majors only. Prerequisites Admission to concentration, SOW 6243, and SOW 6351. Corequisites: SOW 6655, and SOW 6435. (S,SS)

SOW 6611 Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples. Focus will be given to non-traditional change strategies such as family sculpting, family reenactment, family choreography and dramatization. Extensive use of video taped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisite: SOW 6351 or Permission of the instructor.

SOW 6646 Social Work Practice with the Elderly (3). The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society. Pre or Corequisite: SOW 5641 and admission to concentration. (F)

SOW 6647 Advocacy in Social Work Practice (3). This course covers skills and knowledge necessary for the practice of advocacy on behalf of individuals and groups, including political, legislative, and organizational perspectives. Prerequisites: Admission to a concentration or permission of the instructor.

SOW 6649 Social Work Practice in Long Term Care and the Elderly (3). This course focuses on direct practice with the frail elderly and their families within the rapidly changing system of community and institutional long term care. Prerequisites: SOW 5641 and SOW 6646. (S)

SOW 6655 Intervention Strategies with Children and Adolescents (3). This course will provide students with the opportunity to select, apply and evaluate appropriate intervention strategies in working with children and adolescents. Specific attention to sociocultural, gender and racial differences in understanding development issues and in critically assessing the applicability of practice theories. Prerequisite: Admission to concentration. Corequisite: SOW 6535 or an MSW degree. (S)

SOW 6656* Decision-Making in Child Placement (3). This course will stress decision-making and interventions when substitute care is considered or carried out. Termination of parental rights and the choice and timing of placements of children will be considered. Prerequisite: Admission to concentration or permission of the instructor.

SOW 6914* Independent Research I-6. Individually selected program of supervised data collection and analysis on specific topics in social work and social welfare. Prerequisite: SOW 5404 and Permission of the instructor. (F, S, SS)

SOW 7237 Research Topics in Micro-Practice Intervention (3). Analysis of research priorities in the development of effective interventions in the social welfare field. Prerequisite: Admission to Ph.D. program or Permission of the instructor. (F)

SOW 7238 Research Topics in Macro-Practice Intervention (3). This course focuses on intervention research and methods in the community, organizational and societal level. Prerequisite: SOW 7237. (S)

SOW 7492 Research Methods in Social Welfare I (3). Research purposes and methods concentrating on design, measurement, hypothesis testing, intervention assessment and analysis. Prerequisite or Corequisite: STA 6166 or equivalent. Prerequisite: Admission to Ph.D. program or permission of the instructor. (S)

SOW 7493 Research Methods in Social Welfare II (3). This second course in a two-semester sequence focuses primarily on design, measurement, and analysis issues in ethnographic field studies, surveys and group experiments for the evaluation of intervention technology in social welfare. Prerequisites: SOW 7492 and STA 6166, or equivalent. (SS)

SOW 7494 Advanced Social Welfare Research (3). Advanced research designs and data analysis techniques for use in developing interventions in social welfare. Prerequisites: SOW 7492 and SOW 7493. (F)

SOW 7682 Social Systems Models & Methods (3). Seminar examines philosophy, concepts, models, and methods of the systems approach and their applications to social work and the helping professionals with regard to problem solving, organizational functioning, and environmental change.

SOW 7916 Supervised Research (3). Directed experience in the conduct of research in social welfare and social work under the guidance of a faculty member. Must be taken twice for a total of six credits. Prerequisite: Completion of first year. (F, S)

SOW 7932 Interdisciplinary Seminar on Social Welfare Within an Urban Milieu (3). Academics from social work and allied disciplines and professions will discuss their theoretical interests and research activities. Prerequisite: Successful completion of first year of Doctoral program.

SOW 7936 Dissertation Seminar in Social Welfare (3). This course focuses on helping students with the development of the dissertation prospectus. Emphasis is placed on development of an acceptable research protocol in the students' specialization area. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493. (S)

SOW 7939 Seminar in Social Work Education (3). This course examines topics in social work education.

SOW 7980 Dissertation (3-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in Social Welfare. Prerequisite: Ph.D. candidacy in Social Welfare. (F, S, SS)

*Social Work Electives
Certificate Programs

Criminal Justice

Graduate Certificate in Justice Administration and Policy Making

The Graduate Certificate in Justice Administration and Policy Making is a professional certificate designed to complement a range of professional activities, academic programs, and degrees in the field of criminal justice. The goals of the program are (1) to stimulate interest in the study of justice administration and policy making at the graduate level, (2) to promote graduate studies with a concentration in criminal justice, and (3) to provide practitioners in the field of criminal justice with a cluster of courses leading to a specialization in criminal justice.

Admission

Students must have a bachelor's degree from an accredited college or university. Students must be admitted to the certificate program by the Program Coordinator, who will serve as their faculty advisor. Admission to the graduate certificate program does not ensure admission to the Master's Degree in Criminal Justice (MSCJ) program. NOTE: Those students who apply for and are admitted to the Master of Science in Criminal Justice degree program may have their Certificate courses with a grade of 'B' or better credited toward the Master of Science in Criminal Justice degree.

Program of Study

A total of 15 successfully completed semester hours is required for the award of the Graduate Certificate in Justice Administration and Policy Making. Students must complete their program of study within three years from the date of their admission and receive no less than a 3.0 GPA in their program of study.

Core Required Courses

CCJ 5288 Legal Issues for Criminal Justice Administrators
CCJ 6058 Theory in the Administration of Justice
CCJ 6456 Administration and Management of Justice Agencies
CCJ 6716 Planning and Program Evaluation

Optional Courses

Select one of the following courses: substitution may be made with the approval of the faculty adviser.

CCJ 5605 Deviance and Social Control
CCJ 5935 Special Topics
CCJ 6477 Seminar in Information Systems

Law and Criminal Justice Certificate

The Law and Criminal Justice academic certificate is designed to provide legally-conscious students with concepts and information utilized by law professionals. Study shall include casework, procedures, court processes, research methods, and other introductory course work designed to enhance careers in the legal profession.

Admission

Students must be fully admitted to the Bachelor of Science degree in Criminal Justice or another bachelor degree program.

Certificate Award

The Certificate will be awarded upon completion of the required certificate courses and the bachelor degree requirements. The certificate will be posted on the student's transcript at the time the completion of the bachelor degree requirements is posted.

Required Criminal Justice Courses

The student shall complete a minimum of 18 semester hours of the following selected criminal justice courses with a minimum grade of 'C' in each course. Core criminal justice courses will not count for Criminal Justice majors.

CCJ 3271 Criminal Procedure
CCJ 3290 Judicial Policy Making
CCJ 3291 Judicial Administration
CCJ 4032 Crime and the Media
CCJ 4252 Criminal Justice and the Constitution
CCJ 4280 Law and Criminal Justice
CCJ 4282 Legal Issues in Corrections
CCJ 4752 Legal Research
CCJ 5xxx Seminar in Criminal Law and Procedures
CCJ 5286 Comparative Law

Health Services Administration

Certificate in Gerontology

The objective of the certificate is to provide graduate students and qualified practitioners in the field of aging with a range of gerontological courses leading to a specialization in gerontology to supplement their chosen disciplines. Through provision of an in-depth understanding of the bio-socio-psychological nature of the aging process, and the relation of political and economic resources, the program's long range objective is to increase the knowledge and sensitivity of professionals in this area, and thereby improve the service delivery system for the increasingly large population of elderly Floridians.

Admission

Students must have a bachelor's degree and be admitted to the program by the Program Coordinator who will serve as their faculty advisor.

Program of Study: (18)

SOW 5641 Understanding the Process of Aging 3
NGR 5250 Physical Change and Healthy Aging 3
HSA 5226 Management of Long Term Care Systems 3

The balance of four courses to be selected from the following areas of concentration. Students who have not had direct practice with older people will be required to select an Individual Study course which will include 225 hours of practicum experience.

Long Term Care Administration

HSA 5225 Long Term Care Management I 3
HSA 5226 Management in Long Term Care 3
HSA 5227 Long Term Care Management II 3
HSA 5454 Ethical Decision Making in Health Services Administration 3
HSA 5816 Practicum in Long Term Care Management 3

Aging and Rehabilitation

OTH 5600 Study of Gerontology as Related to Occupational Therapy 3
OTH 5613 Interdisciplinary Approach to Aging 3
OTH 5630 Occupational Therapy Assessment of the Elderly 3
OTH 5764 Research (topic selected in Geriatric Clinical Specialty) 3
OHT 5905 Independent Study (variable credit)

PHT 6238 Motor Development: Adult Through Geriatrics 3

PHT 6239 Adult Congenital Handicapping Conditions 3

Psychology of Aging
DEP 5404 Proseminar in Psychology of Adulthood and Aging 3

DEP 6438 Gerontological Assessment 3

DEP 6465 Psychology of Culture and Aging 3

DEP 6446 Cognitive Processes of Aging 3

Social Work Practice with Older Persons
SOW 5605 Medical Social Work 3

SOW 5845C Counseling the Elderly 3

SOW 5905 Individual Study 1-3

SOW 6245 Social Welfare Policy and Services for the Elderly 3

SOW 6247 Housing and Environmental Needs 3

SOW 6359 Social Work Treatment with Families of Elderly 3

SOW 6646 Social Work Practice with Elderly 3

SOW 6647 Advocacy in Social Work Practice 3

SOW 6649 Social Work Practice in Long Term Care and the Elderly 3

1Open only to students with MSW degree or students in Master's degree program in Social Work.

Education
ADE 5195 Designing Education and HRD Programs for Disadvantaged Adults 3

Criminal Justice
CCJ 5935 Special Topics: Crime and the Elderly 3

Graduate Certificate in Health Services Administration
The objective of the certificate is to provide individuals with masters, doctoral or equivalent degree to develop an understanding of the context and/or skills of health services administration. This certificate is designed to assist individuals to advance in professions or careers related to health services administration.

Admission
Students must have earned a masters, doctoral or equivalent degree with either a management or clinical base. Such degrees would include but not be limited to the MBA, MD, DO, Masters of Nursing, Masters in Physical Therapy, etc. The student must be admitted to the certificate program by the Program Coordinator who will serve as the student’s advisor. All students must submit a graduate application to the University and arrange for an interview with the Program Coordinator.

Program of Study: (18)
Students with managerial backgrounds will take 6 credit hours:

HSA 5125 Intro to Health Services 3

HSA 6415 Management Applications of Social Determinates of Health 3

Students with clinical backgrounds will take 6 credit hours:

HSA 6185 Health Organization and Management 3

URS 6654 Applied Organization Theory and Behavior 3

All students will take the following 6 credits:

HSA 6149 Strategic Planning and Marketing of Health Care Services 3

HSA 6176 Financing and Reimbursement of Health Systems 3

One of the Following two:

HSA 6155 Health Policy and Economics 3

HSA 6717 Advanced Health Services Management Seminar 3

One of the following five:

HSA 5225 Long Term Care Management 3

HSA 6197 Design and Management of Health Information Systems 3

HSA 6205 Hospital and Health Facility Organization 3

HSA 6215 Managed Care Administration 3

HSA 6875 Administrative Residency 3

Public Administration
Certificate in Human Resource Policy and Management
Human Resource Policy and Management is designed to give graduate students a range of policy-analytic and management skills. It provides training in alternative personnel systems, (civil service, collective bargaining, privatization and service contracting), personnel techniques for productivity improvement, current issues, and ethics and professionalism. This certificate emphasizes the application of behavioral science concepts and techniques to employers in a multicultural context.

Admission
All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will also serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master’s degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward an outside specialization in Human Resource Policy and Management. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into the MPA program.

Program of Study: (15)
The following course is required:

PAD 6417 Public Personnel Administration 3

Four of the following nine courses must be taken to complete the certificate.

PAD 5043 Government and Minority Group Relations 3

PAD 5427 Collective Bargaining and the Public Sector 3

PAD 5435 Administrator and the Role of Women 3

PAD 5460 Productivity Improvement 3

PAD 5616 Contracting and Managing Third Party Governments 3

PAD 6436 Professionalism and Ethics 3

PAD 6437 Dynamics of Individual Growth 3

PAD 6605 Administrative Law 3

URS 6654 Applied Organization Theory and Behavior 3

Students must complete their program of study within three years from the date of admission and receive no less than 3.0 GPA.
Certificate in Public Management

This professional certificate program will provide students with a thorough understanding of the managerial concepts and techniques of public administration and is designed particularly for those who already have a professional field of specialization.

Admission

All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward the MPA core. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into the MPA program.

All certificate applicants will be encouraged to acquire proficiency in the use of microcomputers prior to initial registration. Applicants without this proficiency may wish to take PAD 5716, Information Systems for Public Organizations, prior to, or concurrent with, initial course work.

Program of Study: (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PAD 6053</td>
<td>Political, Social, and Economic Context of PA</td>
<td>3</td>
</tr>
<tr>
<td>URS 6654</td>
<td>Applied Organization Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Finance and &amp; Budgetary Process</td>
<td>3</td>
</tr>
<tr>
<td>URS 6xxx</td>
<td>Human Resource Policy and Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5934</td>
<td>Contemporary Issues in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete their program of study within three years from the date of admission and receive no less than a 3.0 GPA.

Social Work

Post-MSW Certificate in Clinical Practice

This certificate program is designed for MSW practitioners who specialized in macro/administrative or generalist practice and wish to increase their knowledge and skills in direct services/clinical practice with services to children and families of the elderly. In most cases, MSW practitioners completing this certificate will have the requisite MSW course work for clinical licensure in the state of Florida.

The post-MSW Certificate in Clinical Practice program of study is under revision. Students should anticipate changes in the 6000 level courses.

Program of Study

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOW 5125</td>
<td>Human Behavior and Social Environment II-Psychopathology</td>
</tr>
<tr>
<td>SOW 6351</td>
<td>Intervention Strategies with Marriage and the Family or</td>
</tr>
<tr>
<td>SOW 5643</td>
<td>Understanding the Process of Aging</td>
</tr>
<tr>
<td>SOW 6655</td>
<td>Advanced Intervention Strategies with Children and Adolescents or</td>
</tr>
<tr>
<td>SOW 6646</td>
<td>Social Work Practice with the Elderly</td>
</tr>
</tbody>
</table>

Social Work Elective (clinical)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOW 6535</td>
<td>Field Practicum II</td>
</tr>
<tr>
<td>SOW 6543</td>
<td>Integrative Field Seminar II</td>
</tr>
</tbody>
</table>
College of Health and Urban Affairs

Dean
Ronald M. Berkman

Associate Deans
Evelyn B. Enrione
David Bergwall
Welker Mitchell
Marta M. Medina
Ayanna Amerigo

Assistant Deans
Lourdes Rassi

Directors, Chairpersons, and Coordinators:

School of Health
Dietetics and Nutrition
Health Information Management
Occupational Therapy
Physical Therapy

Public Health
Speech Language Pathology

School of Nursing

School of Policy Management

Criminal Justice
Health Services Administration
Public Administration
School of Social Work

Faculty

Abdel-Moty, Alma, M.S., O.T.R.
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Alburtini, Velmarie, M.S.W. (Florida International University), Instructor,
Student Services Coordinator

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Averch, Harvey, Ph.D. (University of North Carolina), Professor, Public Administration

Bacaris, L. Yvonne, M.S.W.
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Mitchell, Welker, Ph.D. (Florida International University), Instructor, Social Work and Assistant Dean
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Rice, Christopher, Ph.D. (Washington University), Assistant Professor, Social Work
Rivers, James E., Ph.D. (University of Kentucky), Associate Professor and Director, Metropolitan Center
Rose-St. Prix, Colleen, MHSA, Ph.D. (Florida International University), Associate Professor, Physical Therapy
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Research Center
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Verdi, Michele, M.S.W. (Florida  
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Wagner, Eric F., Ph.D. (University  
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tion Project
Wallace, Joan S., Ph.D.  
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and Associate Director, Social Work
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Wellman, Nancy S., Ph.D., R.D.,  
FADA (University of Miami),  
Professor, Dietetics and Nutrition
White, Vandon E., Ph.D. (Purdue  
University), Professor, Health  
Services Administration
Williams, Judith K., Ph.D., Courtesy  
Associate Professor
Wong, Stephen, Ph.D. (Western  
Michigan University) Associate  
Professor and Ph.D. Program  
Coordinator, Social Work
Yarnold, Barbara, Ph.D. (University  
of Illinois), J.D. (DePaul  
University), Associate Professor,  
Public Administration
School of Hospitality Management
School of Hospitality Management

Joseph J. West, Dean and Professor
Lee C. Dickson, Associate Dean and Associate Professor
Rocco M. Angelo, Associate Dean and Professor
Adele E. Smith, Associate Dean and Associate Professor
Sidney Bettler, Visiting Assistant Professor
Elio C. Bellucci, Professor
Cheryl M. Carter, Instructor
Patrick J. Cassidy, Instructor
Perival Darby, Assistant Professor
M. Nancy Del Risco, Visiting Associate Professor
Marcel R. Escoffier, Associate Professor
Peter Goffe, Associate Professor and Director, Luzern Program
Fritz G. Hagenmeyer, Professor
William M. Hansen, Instructor
William Hebrank, Adjunct Instructor
Michael E. Hurst, Professor Emeritus
Charles L. Ilvento, Professor
Lendal H. Kotschevar, Professor Emeritus
Gerald W. Lattin, Professor Emeritus
Anthony G. Marshall, Dean Emeritus
Steven V. Moll, Associate Professor and Director, Broward Program
Elisa Moncarz, Professor
Michael J. Moran, Instructor
William J. Morgan, Jr., Professor Emeritus
Diann R. Newman, Assistant Professor
William G. O’Brien, Associate Professor
Alan J. Parker, Professor and Director, Center for Tourism and Technology
Nestor Portocarrero, Professor
Roger Probst, Instructor
William J. Quain, Professor
Joan S. Remington, Instructor and Director, Career Development; Director, The Center for Hospitality and Tourism Education and Research
J. Kevin Robson, Associate Professor
Donald G. Rosellini, Visiting Associate Professor
Kennard Rutkowski, Academic Advisor and Instructor
David M. Talty, Instructor
Mary L. Tanke, Associate Professor

The School of Hospitality Management offers Bachelor’s and Master’s Degrees and Certificate Programs that combine practical experience with classroom theory to assist the student to gain the understanding, skills, and techniques needed to qualify for job opportunities and to achieve his or her career goals in the hospitality industry.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, resorts, restaurants, clubs, airlines, travel agencies, and cruise lines as practice labs for students. The advanced phase of the graduate internship program provides each student a structured management training experience normally not available to a student until he or she has entered the industry after graduation.

An Industry Advisory Board - which includes outstanding executives in the hotel, food and tourism industries - works regularly with the faculty, staff, and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality industry.

The School has been designated a Program of Distinction by the Florida Board of Regents.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.

Location
The School is located on 200 tropical acres in a resort-like setting at the scenic North Campus at Biscayne Boulevard (U.S.1) and Northeast 151 Street, North Miami, Florida.

Admission
Applicants to the School must submit an Application for Admission to the University and must follow the regular University admission procedures described in the Admission section of the catalog. Applicants must be eligible for admission to the University before admission to the School.

Each candidate for admission to the graduate program must present his or her score on the GRE or the GMAT and proof of a Bachelor's Degree from an accredited institution.

To be admitted, a candidate must have maintained a 'B' average in all upper division work and attain a minimum score of 1000 on the GRE (verbal and quantitative aptitude sections) or a minimum score of 450 on the GMAT. Students entering with a 3.0 GPA may be "provisionally admitted" pending receipt of an acceptable GRE or GMAT score. The GRE or GMAT exam must be taken during the student’s first semester at FIU. A minimum TOEFL score of 500 is required for international applicants. (Effective Fall 2001 the minimum TOEFL score will increase to 550). Students scoring below 550 on the TOEFL may be required to take an intensive course in conversational English offered by the FIU English Language Institute for hospitality students.

Applicants who meet admissions criteria but do not have undergraduate preparation in Hospitality Management must complete a series of undergraduate preparatory courses. Specific courses will depend upon the individual's undergraduate preparation. Twenty-four credit hours of preparatory courses normally will be required. A maximum of six semester hours of related graduate credit may be transferred from another university or from the graduate programs of this University. There is a requirement that all students complete 1000 hours of practical training work experience in the Hospitality Industry in addition to the Graduate Internship of 300 hours. A minimum of 800 hours of the total 1300 hours must be completed while enrolled at FIU.

Degree Requirements
To be eligible for a Master’s degree, a student must:
1. Satisfy all University requirements for a master’s degree.
2. Complete a minimum of 39 semester hours of graduate level course work in the Hotel and Foodservice Management curriculum. (Exception: Executive Hospitality Management Track).
3. Earn a minimum grade point average of ‘B’ (3.0) in all approved courses in the student’s graduate program of study.
4. Earn an acceptable score on the GRE or GMAT.

No courses in which a grade below ‘C’ is earned may be counted toward the
Master's Degree in Hospitality and Tourism Management. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded 'D' or 'F'.

Non-Degree Seeking Students

Individuals currently employed in the hospitality field, who do not have the educational requirements to meet degree admission standards, may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a Non-Degree Seeking Student for a total of 12 semester hours.

Master of Science in Hospitality and Tourism Management*

Undergraduate Prerequisites (24)

HFT 3403 Accounting for the Hospitality Industry 3
HFT 4464 Financial Analysis in the Hospitality Industry 3
HFT 4474 Management Accounting for the Hospitality Industry 3
FSS 3230C Introductory Commercial Food Production 3
FSS 4234C Advanced Food Production 3
HFT 4802 Catering Management 3
HFT 3503 Hospitality Marketing Strategy 3
HFT 3603 Law for the Hospitality Industry 3
HFT 4227 Travel Industry Law 3
ENC 3311 Advanced Research Writing 3

Graduate Hospitality Management Electives: 12

HFT 6477 Financial Management for the Hospitality Industry 3
HFT 6476 Feasibility Studies for the Hospitality Industry 3
HFT 6478 Restaurant Development 3
HFT 6299 Case Studies in Hospitality Management 3
HFT 6946 Graduate Internship 0

Graduate Hospitality Management Electives: 12

HFT 6477 Financial Management for the Hospitality Industry 3
HFT 6476 Feasibility Studies for the Hospitality Industry 3
HFT 6478 Restaurant Development 3
HFT 6299 Case Studies in Hospitality Management 3
HFT 6946 Graduate Internship 0

Graduate Hospitality Management Travel and Tourism Track Electives: 12

HFT 6xxx Tourism Planning and Regional Development 3
HFT 6xxx Tourism and Economics 3
HFT 6xxx Tourism Marketing on the Internet 3
HFT 6xxx Environmental Management Systems for Tourism 3

Graduate Internship

Required for all graduate students unless prior experience warrants a waiver of this requirement (see advisor for information).

For students in the Travel and Tourism Track, this internship must be track related.

Industry Experience Requirement: 1300 hours

1000 hours of hospitality related practical training work experience is required plus 300 hours for the Graduate Internship. A minimum of 800 hours must be completed while enrolled in the graduate program at FIU. Work experience documentation required.

Master of Science in Hospitality and Tourism Management*

Executive Masters Track

Hospitality and Tourism Management: (30)

Management Experience

A minimum of five years hospitality related management experience required for acceptance into this track. Applicants must currently hold a
management position in the hospitality industry. A Bachelor's degree and an acceptable score on GRE or GMAT exam required.

Undergraduate Prerequisites: 9
HFT 3403 Accounting for the Hospitality Industry 3
HFT 4464 Financial Analysis in the Hospitality Industry 3
HFT 4474 Management Accounting for the Hospitality Industry 3

Core Requirements (30)
HFT 6226 Motivation and Leadership in the Hospitality Industry 3
HFT 6697 Hospitality Law Seminar 3
HFT 6xxx e-Commerce for the Hospitality Industry 3
HFT 6296 Strategic Management for Hospitality and Tourism 3
HFT 6xxx Hospitality/Tourism Service Operations Analysis 3
HFT 6446 Hospitality Enterprise Technologies 3
HFT 6477 Financial Management for the Hospitality Industry 3
HFT 6476 Feasibility Studies for the Hospitality Industry 3
HFT 6478 Restaurant Development 3
HFT 6xxx Emerging Topics in Food & Beverage Management 3
HFT 6299 Case Studies in Hospitality Management 3

*The revised curriculum for the Master's degree in Hospitality and Tourism Management is subject to approval by the Florida Board of Regents in July 2000.

Course Descriptions

Definition of Prefixes
FSS - Food Service Systems; HFT - Hotel, Food, Tourism.

FSS 6108 Purchasing and Menu Planning (3). Advanced information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods, including development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

FSS 6365 Foodservice Systems (3). Principles of system analysis applied to the foodservice industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

FSS 6452 Advanced Foodservice Design Operations (3). Advanced planning, programming, and project documentation for commercial food service facilities. Spatial, environmental, and electro-mechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: HFT 4343

FSS 6834 Foodservice Research (3). The planning, executing, and reporting of an individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation, and interpretation.

HFT 5545 Leadership Training for Team Building (3). Students will learn leadership skills to facilitate team building activities in order to improve group communication, trust, problem-solving, and productivity.

HFT 5595 Problems in Marketing (3). Team-work analysis and recommended solution of actual marketing problems and case studies. Prerequisite: HFT 3503.

HFT 5655 Franchising and Management Contracts (3). A comprehensive course designed to examine the franchise/franchisor–franchisee and owner/manager relationships in hotel and foodservice operations and the mutual obligations created by each type of contract. Prerequisite: HFT 3603.

HFT 5718 Quality Service Management in the Hospitality and Tourism Industries (3). Course offers hospitality/tourism students information on TQM as it relates to service quality. Elements necessary to implement and achieve quality service in the visitor industry are considered.

HFT 5719 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on developing tour packages for international and developing nation's situations. Prerequisites: HFT 3700 or equivalent.

HFT 5901, 5906, 5911 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study.

HFT 6xxx Managing Self and Others in the Hospitality Industry (3). Students will increase managerial effectiveness by learning and applying a model for enhancing self-esteem and integrating that model into their managerial philosophy for the hospitality industry.

HFT 6xxx Tourism and Economics (3). Provides an in-depth examination of the Global Tourism Market utilizing quantitative methods to measure and forecast the development of tourism as a strategic economic activity. Prerequisites: HFT 3403 and HFT 4464.

HFT 6xxx Environmental Management Systems for Tourism (3). An in-depth examination of the environmental cost of tourism development. The effective implementation of international models as well as environmental practices for sustainable tourism development will be studied.

HFT 6xxx Tourism Planning and Regional Development (3). An in-depth examination of the process of identifying needs, objectives, and strategies for tourism development. The formulation and evaluation of tourism policies and plans will be studied. Prerequisite: HFT 6476.

HFT 6xxx Tourism Marketing on the Internet (3). An in-depth study of Internet Web site Hosting for tourism managers, including a detailed examination of the current practices of online tourism marketing and tourism destination management systems. Prerequisite: HFT 3503, HFT 6xxx eCommerce.

HFT 6xxx eCommerce for the Hospitality Industry (3). Planning and managing eCommerce for hospitality global distribution systems, including major opportunities, limitations, issues and risks from managerial perspectives. Prerequisite: HFT 3503 and computer literacy.

HFT 6xxx Emerging Topics in Food and Beverage (3). An in-depth study of current issues and topics confronting the food and beverage industry and how they impact future business.
practices. Management implications addressed.

HFT 6xxx Hospitality/Tourism Service Operations Management (3). Application of techniques to create, operate staff and evaluate service systems for hospitality/tourism enterprises. Emphasis on queues, forecasting demand, route and scheduling and quality management.

HFT 6225 Multicultural Human Resources Management for the Hospitality Industry (3). A study of personnel, consumer relations, and diversity in the hospitality industry within a multicultural, multiracial, and multiethnic society through an examination of value systems and cultural characteristics.

HFT 6226 Motivation and Leadership (3). Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

HFT 6227 Hospitality Management Training Systems (3). A course designed to develop and provide applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used.

HFT 6246 Organizational Behavior in the Hospitality Industry (3). A survey of the concepts of organizational behavior and industrial psychology theory, from both the research and practical points of view. The course is designed to assist students in making sound decisions in the hospitality area by making them sensitive to the organizational parameters which influence their decisions.

HFT 6256 International Hotel Operations (3). A consideration of various environments within which the international hospitality firm operates. Organizational, financial, and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature. Prerequisite: HFT 3403, HFT 3452, HFT 3503.

HFT 6278 Timeshare Management (3). Course covers management, marketing, sales legislation, financing, and budgeting of timeshare and vacation ownership properties. Opportunity to gain AEl certification.

HFT 6296 Strategic Management for Hospitality and Tourism (3). Developing competitive advantage in the Hospitality Industry including a strategy project where an incumbent faces off against a new entrant. Team will develop strategic business plans. Prerequisite: HFT 4464, HFT 3503, and computer literacy.

HFT 6297 Seminar in Management Methods (3). Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HFT 6299 Case Studies in Hospitality Management (3). Case studies are used to analyze and integrate the various disciplines of hospitality management and the visitor industry. A critical attitude toward all administrative and management thought is encouraged.

HFT 6325 Hospitality Facilities Engineering and Management (3). Hospitality facilities management from value-oriented system engineering perspective emphasizing management responsibilities for efficiency in building design, operations and utilities systems. Prerequisites: HFT 3403 and HFT 3453.

HFT 6346 Design and Planning of Restaurants and Hotels (3). Advanced level of study of all aspects considered in designing and planning a restaurant or hotel. Includes lectures, case studies, and laboratory drawing exercises. Scheduling and cost controls considered. Prerequisite: HFT 3263

HFT 6404 Non Commercial and Contract Foodservice Management (3). Advanced management of foodservice operations in noncommercial facilities, self operated and contract managed. Includes business and industry, health care, campus dining, correctional, and foodservice vending.

HFT 6446 Hospitality Enterprise Technologies (3). Advanced course in information technology in the hospitality industry. Includes study of ERP software and data. Prerequisite: Basic computer skills.

HFT 6447 Hotel Information Systems (3). A seminar on computer systems and their applications within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined, from reservations to the back office through a series of assignments and projects. Prerequisites: HFT 3423 or HFT 6446.

HFT 6456 Operations Control (3). Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotel or restaurant enterprises.

HFT 6476 Feasibility Studies for the Hospitality Industry (3). In-depth study of the tools and techniques available for evaluating financial feasibility of a hospitality investment. Feasibility study required. Prerequisites: HFT 3503 and HFT 4464. (F,S)

HFT 6477 Financial Management for the Hospitality Industry (3). A study of financial management and its application in the Hospitality Industry. Topics include capital investment analysis, mergers and current financial issues. Emphasis is placed on maximizing shareholder value. Prerequisite: HFT 4464, HFT 4474, and computer literacy.

HFT 6478 Restaurant Development (3). A study of the procedures to research and develop a restaurant from concept to opening. Emphasis will be on market research, site development, financial feasibility, and the formulation of an operating plan for an individual restaurant. Prerequisites: HFT 3504 and HFT 4464.

HFT 6486 Investment Analysis for the Hospitality Industry (3). Advanced investment methods and opportunities with emphasis on securities of the hospitality industry, financing techniques, syndication, negotiations. Prerequisites: HFT 6446 and HFT 4464.

HFT 6494 Restaurant Information Systems (3). An in-depth study of principles relating to use of computer systems in the restaurant and foodservice industry. The student is required to implement a simulated restaurant on computer systems. This simulation includes personnel files, daily management, menu explosion and analysis, and inventory tracking. A research project will be assigned. Prerequisite: HFT 3423 or HFT 6446.
HFT 6525 Sales Tactics for Hospitality Industry (3). Advanced course investigating sales tactics and procedures used in hospitality sales environment. Practical application role plays and skill rehearsals used. Prerequisite: HFT 3503.

HFT 6526 Sales Management for the Hospitality Industry (3). Analyzes strategic processes for competitive sales management in hospitality industry. Uses critical thinking models, decision-making simulations and field operation assessments for managing sales function. Prerequisite: HFT 3503.

HFT 6586 Research and Statistical Methods (3). A practical study of basic research and statistical methodology applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation, and methods of reporting are considered.

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem and development of a marketing plan for hospitality business. Prerequisite: HFT 3503.

HFT 6605 Legislation and the Hospitality Industry (3). An advanced study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment. Prerequisite: HFT 3603.

HFT 6697 Hospitality Law Seminar (3). New laws and their impact on the hospitality industry are examined. Students research current legal issues and problems and explore the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603.

HFT 6705 Management of Nature-Based Tourism (3). Exploration of research methods and findings related to eco-tourism. Review of effective management strategies for controlling nature-based tourism operations.

HFT 6756 Convention and Meeting Management (3). Advanced study of planning, arranging, marketing, implementing, and managing conventions and meetings. Prerequisite: HFT 3503.

HFT 6806 Recreational Foodservice Management (3). Advanced study of financial planning and operational methods used by recreational food service management companies at stadiums, coliseums, arenas, convention centers, amusement parks, pari-mutuels, state and national parks, and other recreational areas.

HFT 6916 Hospitality Industry Research Project (3-9). An individualized business research-oriented project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course. (F,S,SS)

HFT 6946 Graduate Internship (0). Structured hospitality practical training work experience involving training program and job rotations not previously performed. Ten week/300 hour minimum. Report and management project required. Prerequisite: Documented completion of 1000 hospitality related work hours of which at least 500 hours must be completed while enrolled at FIU. Permission of instructor. (F,S,SS)
School of Hospitality Management

Dean
Joseph J. West

Associate Dean
Lee C. Dickson

Associate Dean
Adele E. Smith

Associate Dean
Rocco M. Angelo

Faculty

Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean
Beitler, Sidney, Ed.D. (Florida Atlantic University), Visiting Assistant Professor, Hospitality Technology
Bellucci, Elio C., J.D. (Boston College), Professor, Law
Carter, Cheryl M., M.S. (Florida International University), Instructor, Tourism
Cassidy, Patrick J., B.S. (Florida International University), Instructor, Wine Technology
Darby, Percival, M.S. (Florida International University), Assistant Professor, Management
Del Risco, M. Nancy, Ph.D. (University of Paris), Visiting Associate Professor, Tourism
Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management and Marketing and Associate Dean
Escoffier, Marcel R., M.S. (Florida International University), Associate Professor, Management
Goffe, Peter, J.D. (University of Miami), Associate Professor, Marketing and Director, Luzern Program
Hagenmeyer, Fritz, G., M.A. (Cornell University), Professor, Hotel Engineering
Hansen, William M., M.S. (Florida International University), Instructor, Club and Catering Management
Hurst, Michael E., M.A. (Michigan State University), Professor Emeritus
Ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Professor, Accounting and Finance
Kotschevar, Lendal H., Ph.D. (Columbia University), Professor Emeritus
Lattin, Gerald W., Ph.D. (Cornell University), Professor Emeritus
Marshall, Anthony G., J.D. (Syracuse University), Dean Emeritus
Moll, Steven V., M.S. (Florida International University), Associate Professor, Management and Director, Broward Program
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Portocarrero, Nestor, B.B.A. C.P.A. (University of Miami), Professor, Accounting and Finance
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West, Joseph J., Ph.D. (Virginia Polytechnic Institute and State University), Professor, Management and Dean
School of Journalism and Mass Communication
School of Journalism and Mass Communication

J. Arthur Heise, Professor and Dean
Lillian Lodge Kopenhaver, Professor and Associate Dean
William Adams, Associate Professor
Catherine B. Ahles, Associate Professor
Margo Berman, Associate Professor
Cheryl Berry, Visiting Associate Professor
Courtney Bosworth, Assistant Professor
Humberto Delgado, Associate Professor
Mario Diament, Associate Professor
Kathleen Donnelly, Assistant Professor
Hugh Gladwin, Director, Institute for Public Opinion Research
Ann Goracek, Coordinator, Institute for Public Opinion Research
Charles Green, Director, International Media Center
Kevin Hall, Editor-in-Residence
David L. Martinson, Professor
Michael McQueen, Associate Professor and Chairperson, Department of Journalism and Broadcasting
Patricia B. Rose, Professor and Chairperson, Department of Advertising and Public Relations
Don Sneed, Professor
Adriana Stella, Assistant Director, Student Services
Carlos Suris, Director, Student Resource Center
Saul Sztam, Director, Student Services
Lorna Veraldi, Associate Professor
John Virtue, Deputy Director, International Media Center

Master of Science in Mass Communication

The School of Journalism and Mass Communication is fully accredited by the Accrediting Council on Education in Journalism and Mass Communications. Only 25 percent of all Schools of Journalism and Mass Communication in the United States are fully accredited. The graduate program of the School of Journalism and Mass Communication offers professional education leading to the M.S. in Mass Communication with current specializations in student media advising, integrated communications: advertising and public relations, journalism and Spanish-language journalism. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates’ abilities to work in the mass communication professions.

Admission Requirements
To be eligible for admission to the graduate program, applicants must meet the following requirements:

1. All applicants must have a bachelor’s degree from a regionally accredited college or university.
2. All candidates must show promise of success in graduate studies. The faculty will consider the following criteria in making this determination:
   a. Minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the junior and senior undergraduate years.
   b. Graduate Record Examination (GRE): The GRE or upon request from the candidate in certain cases - the Graduate Management Admission Test (GMAT) is required. Passing score for the GRE is at least 1000 on the verbal and quantitative portions; passing score for the GMAT is 500. However, if the undergraduate GPA is higher, a lower GRE score can be accepted. No applicant will be admitted to the master’s program if his or her GRE score is lower than 580 or GMAT score is lower than 425 or if he/she scores lower than 500 on the verbal portion of the GRE or lower than the 55th percentile on the verbal portion of the GMAT. Applicants who have taken the GRE more than five years from the date of admission have to repeat the GRE examination.
   c. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
   d. All candidates whose native language is not English must present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). This requirement may be modified for applicants for special versions of the master’s program taught, in part, in languages other than English. Candidates who have passed a TOEFL more than two years before they apply for admission to the program have to repeat the test with the required score.

Application Procedures
A student applying for admission to the graduate program must:

1. Submit an application for admission to the University Admissions Office.

2. Have two official copies of transcripts from all colleges or universities attended sent to the Admissions Office. (Copies submitted by applicants will be rejected.)

3. Submit scores of the GRE and TOEFL to the Admissions Office.

Admission Deadline
Students wishing admittance to the graduate program must apply at least six weeks prior to the start of classes in their first term of graduate study and submit all required scores and paperwork.

Degree requirements
Plan of Study/Commencement of Program

Upon admission to the graduate program in mass communication, each student will be assigned a faculty advisor by the appropriate department chair. In most cases, this will be the director of the appropriate graduate program. The advisor will be responsible for developing the student’s plan of study, requesting applicable transfer of credit where appropriate, monitoring the student’s academic progress, and ensuring the fulfillment of the requirements for the master’s degree by completing the student’s Program of Studies with the student. This will also include a timetable for completion of the work. Any changes in the plan must be approved by the faculty advisor and the appropriate chairperson. It is also the faculty advisor’s responsibility to complete a Graduate GPA Course Inclusion Form for classes that are part of the master’s program but were taken prior to the student’s full admission and/or are lower division classes.

In addition to the development of a plan of study, the advisor must evaluate any deficiencies including, but not limited to the following areas which may require additional course work.

Competence in Statistics

Competence in the fundamentals of statistics is required. Competence is demonstrated by students showing that a course has been taken in statistics before they are allowed to register for MMC 5445 (Applied Research Methods in Mass Media). A student who has not taken a statistics course must register for and take an
undergraduate course prior to taking
MMC 5445.

Writing and Word Processing
Proficiency

Students must pass a grammar
proficiency exam with a score of 70 in
order to graduate from the program.
The exam is provided each semester
and is a prerequisite for MMC 6950
(Professional Project.) Students who
fail the test must re-take it. Students
can schedule time in the SJMC Writing
Lab which is available for self-tutoring
or, as an alternative, complete the
school's undergraduate writing course,
MMC 3104C, with a grade of B or
better. (No grade credit is given for
this course.) The proficiency exam
consists of multiple choice grammar
and syntax questions. *When Words
Collide* by Kessler/MacDonald and the
accompanying Exercise Book may be
used to prepare for the exam. Students
must have computer word processing
skills. Typed work will be required
throughout the program.

Students in the Spanish-language
master's program must pass a
proficiency exam in Spanish, which
will include grammar and syntax. The
test will be taken on campus at the
beginning of the program of study.
Passing the exam is a graduation
requirement. Students who do not pass
the exam will be recommended to
enroll in additional courses or provided
additional review materials to assist
them. Other opportunities to take the
exam will be provided each semester.

Professional Experience

Professional experience in a field
directly related to the specialization the
student plans to pursue is an advantage.
Applicants without such professional
experience may be required to
complete up to 9 credits of additional
undergraduate course work and/or to
complete an internship with a
professional organization. After an
interview with the applicant, the
student's faculty advisor will determine
the amount of undergraduate work and
the undergraduate courses to be
determined.

Transfer Credit

Students may petition the appropriate
advisor to transfer up to six hours of
graduate credit toward the degree. To
be approved for transfer, the courses
must have been previously taken at a
regionally accredited college or
university; the student's advisor must
judge the courses relevant to the
student's plan of study; the student
must not have used the credits toward
another degree; and the student must
have earned a 'B' or higher in the
courses. No transfer courses will
substitute for skills courses in any area
of specialization in the SJMC master's
program. All transfer credit must have
been completed within the six-year
period preceding the date the degree is
granted.

Time Limit

All work applicable to the degree,
including transfer credit, must be
completed within six years.

Grades

Students must maintain a minimum
GPA of 3.0 in all courses required for
the degree. No more than two 'C'
grades will be allowed in computing
that 3.0 GPA.

Foreign Language Requirements

No foreign language will be required
unless the student's plan of study
includes proficiency in another
language.

Professional Project, Thesis

Students complete a professional
project in their areas of specialization.
Work on the project will generally be
taken during the final semester.
Projects will be graded by the student's
graduate committee. Students must
receive a 'B' or higher on the project
for it to be accepted. Students may also
opt to do a thesis; grade requirements
are the same.

Required Courses

To earn the M.S. in Mass
Communication, students must meet the
following requirements:

1. Students must take at least 36
hours of acceptable graduate credit. Of
those hours, all courses in the SJMC
taken toward graduation must be at the
graduate level.

2. At least 27 hours must be in
School of Journalism and Mass
Communication courses.

Student Media Advising

Designed primarily for journalism
teachers and/or student media advisors
on all levels, the program will train
teachers/advisors or those aspiring to
the profession in areas related to
everyday work.

Core Curriculum

All students must take the following
core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 6042</td>
<td>Theories of Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>MMC 5445</td>
<td>Applied Research Methods in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Professional Project</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6635</td>
<td>Contemporary Issues in Mass Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to the core courses, students in the student media advising specialization must take the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 5806</td>
<td>Student Media Advising</td>
<td>3</td>
</tr>
<tr>
<td>MMC 5207</td>
<td>Ethical and Legal Foundations of the Student Press</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6635</td>
<td>Contemporary Issues in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>VIC 5205</td>
<td>Trends in Graphic Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must also take two
additional three-credit graduate
courses in the School of Journalism and Mass Communication in an appropriate area
of emphasis. Courses must be approved
by the student's advisor.

Nine hours must be in a field of
concentration outside the School of
Journalism and Mass Communication.
A minimum of three of those credits
have to be at the graduate level (5000
or 6000 level).

Integrated Communications:
Advertising and Public
Relations (ICAP)

This evening and Saturday morning
ICAP program is designed to give
students a general background in
strategic communications and to help
them prepare for advancement in
advertising, public relations and integrat-
ed communications careers – whether
corporate, agency or non-profit. It is
designed for students who work full
time. While a few students take nine
credit hours per semester, many take
only three or six.

For additional information about the
ICAP program, please contact the
program coordinator at 305-919-5625
or email SJMC@FIU.EDU

Core Curriculum

All students must take the following
core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 6402</td>
<td>Theories of Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>MMC 5445</td>
<td>Applied Research Methods in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Professional Project</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6635</td>
<td>Contemporary Issues in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>ADV 6805</td>
<td>Creative Advertising and Public Relations Execution</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6635</td>
<td>Contemporary Issues in Mass Communication</td>
<td>3</td>
</tr>
</tbody>
</table>
Integrated Communications: Advertising and Public Relations – Creative Track

The ICAP creative program is a rigorous, tuition-plus-fee program that is limited to a select number of qualified students who have shown average creative potential and wish to combine a theoretical knowledge of communications with a more in-depth exposure to creative concepts. A portfolio review is required for admission.

The ICAP Creative Track incorporates these unique features:
• The Advice of the Miami Ad School
• Dialogue with top creative personnel
• Access to Miami Ad School guest speakers and facilities
• Five semesters of courses, offered on a lock-step basis
• The option of the fourth semester away

For more detailed information about the ICAP Creative Track please contact the program director at 305-919-5520 or by email SJMC@FIU.EDU

Core Curriculum

All students must take the following core courses:
MMC 6402 Theories of Mass Communication 3
MMC 5445 Applied Research Methods in the Mass Media 3
MMC 6950 Professional Project 3

In addition to core courses, ICAP students must take the following program courses:
ADV 6805 Creative Advertising and Public Relations 3
PUR 5602 Integrated Communications Proseminar 0
PUR 5406 Multi-Cultural Communications 3

Second Semester
MMC 5445 Applied Research Methods in Media 3
MMC 5932 Special Topics Seminar 3
RTV 6309 Advanced Broadcast News 3
ECS 7405 Economics of Latin America 3

Certificate Programs
Integrated Communications

Advertising and Public Relations
The objective of the Integrated Communications: Advertising and Public Relations certificate is to train interested community professionals in up-to-date strategies and methodologies in integrated communications: advertising and public relations.

Required Courses:
ADV 6805 Creative Advertising and Public Relations 3
PUR 5602 Integrated Communications Proseminar 0
PUR 5607 Advertising and Public Relations Management 3
PUR 5806 Integrated Advertising and Public Relations Planning and Evaluation 3

Plus any two of the following:
MMC 5445 Applied Research Methods in the Mass Media 3
MMC 6635 Contemporary Issues in Mass Communication 3
PUR 5406 Multi-Cultural Communication 3
PUR 6935 Advanced Advertising and Public Relations Seminar 3

Student Media Advising

This professional certificate program is designed primarily for journalism teachers and for student media advisors on all levels and for those aspiring to the profession. This program will satisfy the requirements of the certification, re-certification or incentive credits for current public school teachers in the field. The Certificate in Student Media Advising requires 15 credits to be taken as follows:

Required Courses:
JOU 5806 Student Publications 3
MMC 5207 Ethical and Legal Foundations of the Student Press 3
VIC 5205 Trends in Graphics and Design 3

Elective Courses

Students must take two of the following:
JOU 4208 Magazine Editing and Production 3
MMC 6402 Theories of Mass Communication 3
MMC 6635 Contemporary Issues in Mass Communication 3
PUR 4101 Publications Editing and Design 3
RTV 5936 Seminar in New Communication Technologies 3

other courses upon approval of the faculty advisor.

**Spanish Language Journalism**

The objective of the Professional Certificate in Spanish Language Journalism is to develop skills and techniques that will allow working journalists to be more responsive to the demands of their profession as well as the opportunity to become more familiar with Spanish-language journalism in general. The focus of the program will be on reading, writing, and thinking. All courses will be taught in Spanish. Some courses may be offered off-campus.

Interested students should contact the department for additional information and course requirements.

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**Course Descriptions**

**Definition of Prefixes**

ADV-Advertising; JOU-Journalism; MMC-Mass Media Communication; PUR-Public Relations; RTV-Radio-Television; VIC-Visual Communication.

All courses required for the degree will be offered at least once during the term of the student's enrollment.

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues. (Offered at least once a year).

ADV 6503 Seminar in Advanced Creativity (3). Theoretical and practical application of variable topics including creative problem solving, design, web advertising, pop culture, and IMC tools. Progressive level of difficulty. Prerequisite: Permission of the instructor.

ADV 6805 Creative Advertising and Public Relations Execution (3). Writing and visualization relevant to developing creative executions for integrated communications problems. Prerequisite: PUR 5806. (Offered at least once a year).

JOU 5806 Student Media Advising (3). Designed to assist teachers and advisors of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks, and magazines, as well as the legal and ethical considerations facing today's advisor. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction. (Offered at least once a year).

JOU 6107 Advanced Public Affairs Reporting (3). A journalist's examination of the judicial system, from police headquarters to the courtroom. Prerequisite: Graduate standing.

JOU 6118 Project Reporting (3). Working one-on-one with a faculty member, the student completes research for Professional Project while learning to shape and report an ambitious, extended article or series.

JOU 6119 Advanced Print Reporting (3). Traditional and innovative reporting techniques, from searching archives and interviewing, to manipulating databases and scouring the Internet. Students also wrestle with legal, ethical dilemmas.

JOU 6125 The Cyberjournalist (3). Students progress beyond a simple knowledge of how to use electronic databases into the realm of mining and manipulating vast data pools such as the U.S. Census.

JOU 6185 Covering the City I (3). Basic reporting. Students cover breaking stories against daily deadlines. Readings/viewings are aimed at helping students analyze and compare a wide range of media. Prerequisite: Graduate standing.

JOU 6186 Covering the City II (3). Theme coverage of forces (economics, politics, etc.) that shape cities. Enterprise reporting with significance and context, and its legal and ethical implications. Includes municipal-budget analysis. Readings/viewings: Original works or original thinkers.

JOU 6187 Covering the City III (3). Students produce the prototype for a city magazine, from start to finish. Readings: a broad sampling of magazines.

JOU 6193 Thinking Like a Writer I (3). Principles and techniques that are common to good writing, regardless of the medium. Students learn to read, observe and think as writers. Helps students reach professional level in grammar. Prerequisite: Graduate standing.

JOU 6194 Thinking Like a Writer II (3). Continuation of 1st writing course, with emphasis on elegance at sentence level. Also explores interrelationships of story telling, editing and design. Readings: Poynter anthology.

JOU 6196 Thinking Like a Writer III (3). Continuation of 1st and 2nd semester writing courses, with emphasis on producing the long piece. Direct support of the writing of Professional Project. Readings/viewings: Pulitzer, Emmy winners.

JOU 6931 Seminar on Special Topics (1-3). Instruction in specialized areas of journalism. Prerequisite: Graduate standing.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examine ethical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both. (Offered at least once a year).

MMC 5445 Applied Research Methods in the Mass Media (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies. Students will conduct an original proprietary study. Prerequisite: STA 3013 or equivalent. (Offered at least once a year).

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication. (Offered at least once a year).

MMC 6402 Theories of Mass Communication (3). Examines theories and processes of mass communication as well as media responsibility to society and the social and ethical responsibility of communicators. (Offered at least once a year).

MMC 6503 The Literature of Integrated Communication (3). Survey of current and important literature in the field of integrated communication and its importance and application for ICAP managers.

MMC 6635 Contemporary Issues in Mass Communication (3). Contemporary issues regarding media responsibility to society and the social responsibility of communicators. Analysis and evaluation of media ethics and performance. Prerequisite: Graduate standing. (Offered at least once a year).
MMC 6950 Mass Communication Professional Project (3). The professional project is designed to demonstrate the student’s excellence in an area of communication study. Must be completed within one semester. Prerequisites: Completion of all required courses. Completion of 27 credit hours and Permission of the instructor.

PUR 5406 Multi-Cultural Communications (3). Explores the multicultural dimensions of communications with diverse audiences both internationally and within the United States. Prerequisite: Permission of the Instructor.

PUR 5602 Integrated Communications Proseminar (0). Lectures/discussion by distinguished educators/industry professionals and graduate faculty on topics designed to introduce participants to the various components and applications of Integrated Communications: Advertising and Public Relations (ICAP) graduate study.

PUR 5607 Advertising and Public Relations Management (3). Operations and objectives of integrated advertising and public relations activities and programs utilizing case studies on budgeting, ethics, media planning/relations, promotions and direct marketing. Prerequisite: PUR 5806.

PUR 5806 Integrated Communications: Account Planning (3). Advanced study in developing, planning and evaluating strategic integrated communications programs and campaigns. Prerequisite: Permission of the instructor. (Offered at least once a year).

PUR 6935 Advanced Public Relations Seminar (3). A series of readings, discussions and presentations immerse students in contemporary issues in Advertising and Public Relations. Prerequisite: Permission of the instructor. (Offered at least once a year).

RTV 5806 Telecommunication Management Structures (3). Intensive study of telecommunication management problems, theory of same, solutions of same through practical application and examination of case studies. Prerequisite: Graduate standing.

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or Permission of the instructor.

RTV 5936 Seminar in New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing.

RTV 6309 Advanced Broadcast News (3) Live, on-camera reports. Selection of video in planning coverage. Writing to video. Analysis of the camera’s influence on news situations. Law and ethics in editing.

RTV 6465C Field Production Practicum (3). The student will be responsible for the organization and complete pre-production, production, and post-production of his/her project(s). Prerequisite: Graduate standing.

RTV 6468C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

RTV 6937 Decision Making in Broadcast Journalism (3). The roles and ratings, research, visuals, technology and non-news management in choice of news personnel, assignments, content and scheduling. Analysis of legal and ethical implications. Prerequisite: Graduate standing.

VIC 5205 Trends in Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design. (Offered at least once a year). (Supplies fee assessed)
School of Journalism and Mass Communication

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Associate Dean Lillian Lodge Kopenhaver
Chairperson, Advertising and Public Relations Patricia Rose
Chairperson, Journalism and Broadcasting Michael McQueen

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Virtue, John, B.A. (Carleton University), Deputy Director, International Media Center
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Florida International University

University Park
Miami, Florida 33199

North Campus
North Miami, Florida 33181

Broward Center
at Broward Community College
Liberal Arts Building
2912 College Avenue
Davie, Florida 33314

University Tower
220 SE 2nd Avenue
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Fort Lauderdale, Florida 33301