1995

Graduate catalog (Florida International University). [1995-1996]

Florida International University

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Florida International University

1995-1996
Graduate Catalog

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Florida International University
Member of the State University System
Miami, Florida

1995 - 1996 Graduate Catalog

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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 and the requirements imposed upon students by State law rests with the students.

This public document was produced at a cost of $18,011 or $1.20 per copy to inform the public about University Programs.

Fees given in this catalog are tentative pending legislative action.
# ACADEMIC CALENDAR 1995-1996*

**Fall Semester 1995**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 31</td>
<td>Last day for International Students to submit applications and all required supporting documents for Fall Term admission.</td>
</tr>
<tr>
<td>April 3 - 7</td>
<td>Control Cards available for student pick-up for Multi-term Pre-Registration</td>
</tr>
<tr>
<td>April 10 - 14</td>
<td>Official Multi-term Pre-Registration Week (Degree-Seeking Students only) by appointment time and day.</td>
</tr>
<tr>
<td>April 17 - 21</td>
<td>Open Multi-term Pre-Registration Week.</td>
</tr>
<tr>
<td>May 31</td>
<td>Admission application priority consideration (except international students).</td>
</tr>
<tr>
<td>July 6 - 7</td>
<td>Freshman Orientation (University Park and North Campus)</td>
</tr>
<tr>
<td>July 10 - 11</td>
<td>Freshman Orientation (University Park)</td>
</tr>
<tr>
<td>July 13 - 14</td>
<td>Freshman Orientation (University Park)</td>
</tr>
<tr>
<td>July 15</td>
<td>Fall Housing Fees due.</td>
</tr>
<tr>
<td>July 17 - 18</td>
<td>Freshman Orientation (University Park and North Campus)</td>
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<tr>
<td>July 19 - 20</td>
<td>Freshman Orientation (University Park)</td>
</tr>
<tr>
<td>July 21</td>
<td>Transfer Student Orientation (University Park and North Campus)</td>
</tr>
<tr>
<td>July 24 - 28</td>
<td>Control Cards available for student pick-up.</td>
</tr>
<tr>
<td>July 27 - 28</td>
<td>Freshman Orientation (North Campus)</td>
</tr>
<tr>
<td>July 31 - August 4</td>
<td>Official Registration Week (Degree-Seeking Students only) by appointment time and day.</td>
</tr>
<tr>
<td>August 7 - 11</td>
<td>Open Registration Week.</td>
</tr>
<tr>
<td>August 11</td>
<td>Last day (by 5 p.m.) to pay tuition and fees to retain registered courses.</td>
</tr>
<tr>
<td>August 16</td>
<td>Last Day (by 5 p.m.) to apply for graduation at the end of Fall 1995 semester.</td>
</tr>
<tr>
<td>August 16 - 17</td>
<td>Freshman Orientation (University Park)</td>
</tr>
<tr>
<td>August 21 - 22</td>
<td>Freshman Orientation (University Park and North Campus)</td>
</tr>
<tr>
<td>August 23</td>
<td>Short Term Tuition Loan Applications available to students planning to register on Registration Days.</td>
</tr>
<tr>
<td>August 24</td>
<td>Telephone Registration available.</td>
</tr>
<tr>
<td>August 24 - 25</td>
<td>Registration Days (Thursday 7 a.m. - 7 p.m. — Friday 7 a.m. - 5 p.m.)</td>
</tr>
<tr>
<td>August 25</td>
<td>Last day to register without incurring a $100.00 late registration fee.</td>
</tr>
<tr>
<td>August 28</td>
<td>Classes Begin.</td>
</tr>
<tr>
<td>Aug. 28 - Sept. 1</td>
<td>Registration for State Employees using fee waivers.</td>
</tr>
<tr>
<td>September 1</td>
<td>Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.</td>
</tr>
<tr>
<td>September 4</td>
<td>Labor Day Holiday (University closed).</td>
</tr>
<tr>
<td>September 22</td>
<td>Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td>September 25 - 26</td>
<td>Rosh Hashanah**</td>
</tr>
<tr>
<td>October 4</td>
<td>Yom Kippur**</td>
</tr>
<tr>
<td>Oct. 6 - Dec. 10</td>
<td>Fall 1995 Mini-Semester</td>
</tr>
<tr>
<td>October 7</td>
<td>CLAST Test.</td>
</tr>
<tr>
<td>October 20</td>
<td>Last day (by 5 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>Last day (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
</tbody>
</table>
November 10 - 11 Veterans' Day Holiday (University closed).
November 23 - 24 Thanksgiving Holiday (University closed).
December 8 Classes End.
  • Last day (by 5 p.m.) to apply for graduation at the end of the Spring 1996 semester.
December 9 - 15 Official Examination Period.
December 16 Housing Check-out deadline.
December 18 Commencement Exercises.
December 19 Grades due.
December 20 Grades mailed to students.
December 25 Christmas Holiday (University Closed).

Spring Semester 1996

August 31 Last day for International Students to submit applications and all supporting documents for Spring Term admission.
September 29 Admission application priority consideration deadline (except International students).
November 6 - 10 Control Cards available for pick-up.
  • Short Term Tuition Loan Applications available to students planning to register for Spring Term.
November 7 - 8 Freshmen Orientation (University Park and North Campus)
November 9 Transfer Student Orientation (University Park and North Campus)
November 13 - 17 Official Registration Week (Degree-Seeking Students only) by appointment time and day.
November 15 Spring Housing Fees due.
Nov. 20 - Dec. 1 Open Registration.
November 23 - 24 Thanksgiving Holiday (University closed).
December 1 Last day (by 5 p.m.) to pay tuition and fees to retain registered courses.
  • Last day for Financial Aid recipients to validate class schedules to retain registered courses.
  • Last day for students already registered to apply and to sign Short Term Tuition Loan promissory notes and validate class schedules.
December 8 Last day (by 5 p.m.) to apply for graduation at the end of the Spring 1996 semester
December 18 Registration continues. Telephone Registration available.
January 1 New Year's Day (University Closed).
January 2 Short Term Tuition Loan Applications available to students registering on Registration Day.
January 4 - 5 Registration Days (Thursday 7 a.m. - 7 p.m. — Friday 7 a.m. - 5 p.m.)
January 4 Housing check-in 9 a.m. - 8 p.m.
January 5 Last day to register without incurring a $100.00 late registration fee.
January 8 Classes Begin.
January 8 - 12 Registration for State Employees using fee waivers.
January 12 Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
  • Last day (by 5 p.m.) to complete Late Registration.
  • Drop/Add Period ends at 5 p.m.
  • Last day to change grading option.
  • Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
  • Last day for Financial Aid recipients who registered on or after Registration Days to validate class schedules to retain registered courses.
  • Last day for students who registered on or after Registration Days 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 to register for the February 17th CLAST exam.
February 2 Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
Feb. 16 - April 21 Spring 1996 Mini-Semester
February 17 CLAST Test.
March 1 Last day (by 5 p.m.) to drop a course with a DR grade.
  • Last day (by 5 p.m.) to withdraw from the University with a WI grade.
March 11-17 Spring Break.
April 4-5 Passover**
April 5 Good Friday**
April 10 - 11  Passover**
April 19  Classes End.
  • Last day (by 5 p.m.) to apply for graduation at the end of the Summer 1996.
April 20 - 27  Official Examination Period.
April 28  Housing Check-out deadline.
April 29  Commencement Exercises.
April 30  Grades due.
May 1  Grades mailed to students.

**Complete Summer Semester 1996**

February 1  Last day for International Students to submit applications and all supporting documents for Summer Term admission.
March 1  Admission application priority consideration deadline (except international students).
April 1 - 5  Control Cards available for pick-up.
  • Short Term Loan Applications available to students planning to register for Summer Term.
April 8 - 12  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
April 15 - 19  Open Registration.
April 19  **Last day (by 5 p.m.) to pay tuition and fees to retain registered courses.**
  • Last Day for Financial Aid recipients to validate class schedules to retain registered courses.
  • Last day for students already registered to apply and to sign Short Term Tuition Loan promissory notes and validate class schedules.
  • Last day (by 5 p.m.) to apply for graduation at the end of the Summer 1996 semester.
April 29  Short Term Tuition Loan Applications available to students who plan to register on Registration Days.
May 2  Housing Check-In 9 a.m. to 8 p.m.
May 2 - 3  Registration Days (Thursday 7 a.m. - 7 p.m. — Friday 7 a.m. - 5 p.m.)
May 3  Last day to register without incurring a $100.00 late registration fee.
  • Last day to register for the June 1st CLAST exam.
May 6  Classes Begin.
May 6 - 10  Registration for State Employees using fee waivers.
May 10  **Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.**
  • Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
  • Last day (by 5 p.m.) to complete Late Registration.
  • Drop/Add Period ends at 5 p.m.
  • Last day to change grading option.
  • Last day for Financial Aid recipients who registered on or after Registration Days to validate class schedules to retain registered courses.
  • Last day for students who registered on or after Registration Days to apply and to sign Short Term Tuition Loan promissory notes and validate class schedules.

May 27  Memorial Day Holiday (University closed).
May 31  Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
June 1  CLAST Test.
June 28  Last day (by 5 p.m.) to drop a course with a DR grade.
  • Last day to withdraw from the University with a WI grade (by 5 p.m.)
July 4  Independence Day Holiday (University closed).
August 14  Classes End.
  • Last day (by 5 p.m.) to apply for graduation at the end of Fall 1996 semester.
August 16  Grades due.
August 17  Housing Check-out deadline for the Complete Summer Term and Summer Term B.
August 19  Grades Mailed to Students.
Summer Term A

May 3
Last day to register for the June 1st CLAST exam.

May 2 - 3
Registration Days (Thursday 8 a.m. - 7 p.m. — Friday 8 a.m. - 5 p.m.)

May 6
Classes Begin.

May 6 - 10
Registration for State Employees using fee waivers.

May 10
**Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.**
- Last day (by 5 p.m.) to complete Late Registration.
- Drop/Add Period ends at 5 p.m.
- Last day to change grading option.
- Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
- Last Day for Financial Aid recipients to validate class schedules to retain registered courses.

May 27
Memorial Day Holiday (University closed).

May 31
**Last day (by 5 p.m.) to drop a course with a DR grade.**
- Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
- Last day (by 5 p.m.) to withdraw from the University with a WI grade.

June 1
CLAST Test.

June 21
Classes End.***

June 23
Housing Check-out deadline.

June 25
Grades Due.

June 26
Summer Term A grades mailed to students.

August 14
Last day (by 5 p.m.) to apply for graduation at the end of Fall 1996 semester.

August 23
Final grades and GPA calculation mailed to students.

Summer Term B

June 20 - 21
Freshmen Orientation (University Park and North Campus)

June 24 - 25
Freshmen Orientation (University Park and North Campus)

June 26
Registration Day.
- Housing check-in 9 a.m. - 8 p.m.
- Classes Begin.

July 1
Registration for State Employees using fee waivers.

July 4
Independence Day (University closed).

July 5
**Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.**
- Last day (by 5 p.m.) to complete Late Registration.
- Drop/Add Period ends at 5 p.m.
- Last day to change grading option.
- Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
- Last Day for Financial Aid recipients to validate class schedules to retain registered courses.

July 26
Last day (by 5 p.m.) to drop a course with a DR grade.
- Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
- Last day (by 5 p.m.) to withdraw from the University with a WI grade.

August 14
Classes End.
- Last day (by 5 p.m.) to apply for graduation at the end of Fall 1996 semester.

August 16
Grades Due.

August 17
Housing Check-out deadline

August 19
Grades mailed to students.

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*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 19.*
General Information

State Board of Education
Lawton Chiles Governor
Sandra B. Mortlam Secretary of State
Robert Butterworth Attorney General
Robert F. Milligan Comptroller
Bill Nelson State Treasurer and insurance Commissioner
Bob Crawford Commissioner of Agriculture
Frank T. Brogan Commissioner of Education

Florida Board of Regents
Jon C. Moyle Chairman, West Palm Beach
James F. Heekin Jr. Vice-Chairman, Ocaia
Andrea I. Anderson Ft. Myers
Julian Bennett Jr. Panama City
Frank T. Brogan Commissioner of Education
Paul Cejas Miami
Charlton B. Daniel, Jr. Gainesville
Perrl Hartman Miami Lakes
Elizabeth Lindsay Sarasota
Gwendolyn F. McInl Okahumpka
Dennis Ross Tampa
Steven J. Uffelder Tallahassee
Welcom H. Watson Fort Lauderdale
Charles B. Reed Chancellor, State University System
Jason J. Rosenberg Student Regent

University Officials
Modesto A. Maidique President
James A. Mau Provost and Vice President for Academic Affairs
Richard J. Correnti Vice President for Student Affairs
Paul D. Gallagher Vice President for University Advancement, and Budget (Acting)
Mary L. Pankowski Vice President for North Campus and University Outreach, and Vice Provost of Academic Affairs
Leonardo Rodriguez Vice President for Business and Finance

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 Brian Crosby. Gregory Baker 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.

Goals
Florida International University (FIU), a comprehensive, multi-campus urban research institution, is committed to providing both excellence and access to all qualified students desiring to pursue higher education. FIU offers a comprehensive undergraduate liberal arts education structured around a rigorous core curriculum. The University also offers a number of highly-regarded master’s and doctoral programs in six of its colleges and schools.

The University’s academic programs are designed to achieve four major goals:

1. To provide an excellent university education for all qualified students, challenging and stimulating them at the lower-division level and preparing them to choose a major field in the upper division, leading to selection of a profession or occupation or further study at the graduate level. FIU encourages its graduates, as educated citizens, to pursue lifetime opportunities to contribute to the development of their community’s cultural, aesthetic, and economic environments through participation.

2. To generate new knowledge through a vigorous and ambitious commitment to research in all academic disciplines and to encourage creativity by fostering an atmosphere conducive to the expression of ideas, artistic development, and communication with the external community.

3. To serve the university’s external community, with special attention to Dade, Broward, and Monroe counties, enhancing South Florida’s capacity to meet its cultural, economic, social and urban challenges as we move into the 21st century.

4. To foster greater global understanding as a major center of international education for the people of the Americas and the international community.

Campuses
The University operates two campuses in Dade County and two educational sites in Broward County.

The main campus is located at University Park in west Dade County, approximately 10 miles west of downtown Miami.

The North Campus is adjacent to Biscayne Bay, at Northeast Biscayne Boulevard and 151st Street.

The Broward County area is served cooperatively by FIU and FAU with locations on the campus of Broward Community College in Davie and the University Tower in downtown Fort Lauderdale.

University Park
The University Park is sited on 342 acres of land. The campus has 11 major buildings. The campus development plan envisions four major expansion phases to the Library building, planned as a 14 story tower, beginning with the $29 million base construction in 1995; an $11 million Arts Complex to be completed in 1995; a $1.5 million Baseball Stadium Complex to be completed in 1995; a Nautilus/Fitness Center to be completed in 1995; a new $10 million Residence Hall; a $7.5 million Education building to be completed in 1995; an $8.4 million Campus Support Complex to be completed in 1995; and major campus infrastructure improvements.
North Campus
The North Campus encompasses 200 acres on Biscayne Bay, including a large natural mangrove preserve. Campus facilities include six campus buildings, an Olympic-standard Aquatic Center, apartment-style housing for 552 students, and the Library with a capacity of 500 seats and 232,000 volumes, classrooms, a modern foreign language laboratory and an instructional media laboratory and a recently completed Student Health/Wellness Center. A $4 million remodeling was recently completed to accommodate the growing Hospitality Management program, including a 250 seat auditorium, a restaurant, lecture demonstration labs and multipurpose commercial kitchens.

Future development plans envision a $2 million project to complete classroom and lab space in the Hospitality Management building; $5.3 million expansion/renovations of the Wolfe university Center to be completed by 1996; and a new $7.5 million Conference Center to be completed by late Fall 1995.

FIU Broward
FIU faculty and administrators provide a comprehensive university presence in Broward County in cooperation with Broward Community College (BCC) and Florida Atlantic University (FAU). FIU offers a select number of full degree programs and a variety of supplementary courses at two Broward locations.

Undergraduate and graduate programs are held at the Central Campus of BCC, which is located in Davie. In concert with BCC, a “2+2” program permits students to enroll at BCC for the first two years of study and then to transfer to FIU for the completion of their undergraduate work, receiving a bachelor’s degree.

The University Tower in downtown Fort Lauderdale serves as the administrative headquarters for the FIU Broward Programs as a major instructional facility. It is utilized for graduate programs, research, administrative offices, and services. Both FIU Broward facilities are staffed to provide support services such as academic advisement, admissions, registration, and student activities.

General Academic Information
Florida International University offers over 200 academic programs at the bachelor’s, master’s, and doctorate degree levels which are designed to respond to the changing needs of the growing metropolitan areas of South Florida. Degree programs are offered in the College of Arts and Sciences, College of Business Administration, College of Education, College of Engineering and Design, College of Health, School of Hospitality Management, School of Journalism and Mass Communication, School of Nursing, and College of Urban and Public Affairs.

For the past five years in a row, FIU has been named as “One of America’s Best Colleges” by U.S. News & World Report’s magazine in its annual college ranking.

Accreditation and Memberships
All academic programs of the University are approved by the State Board of Education and the Florida Board of Regents. The University is an accredited member of the Southern Association of Colleges and Schools. 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.

The University is also an affiliate member of the Association of Upper Level Colleges and Universities, the American Association of State Colleges and Universities, the Florida Association of Colleges and Universities, the American Association of Community and Junior Colleges, National Association of Land-Grant Colleges, a Charter Member of the Southeast Florida Educational Consortium, and numerous other educational and professional associations.

The following agencies have accredited professional programs at the University:
- Accreditation Board for Engineering and Technology
- Accrediting Council on Education in Journalism and Mass Communications
- American Assembly of Collegiate Schools of Business
- American Association of Colleges of Teacher Education
- American Chemical Society
- American Council of Construction Education
- Council of Graduate Schools in the United States
- Florida Consortium on Multilingual and Multicultural Education
- National Accrediting Agency for Clinical Laboratory Sciences
- National Association of Colleges of Nursing
- National Association of Schools at Public Affairs
- National League of Nursing
- The American Dietetics Association
- The American Medical Association
- The American Health Information Management Association
- The American Occupational Therapy Association
- The American Physical Therapy Association
- The American Society of Clinical Pathologists
- The Council on Social Work Education

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 Arts and Sciences
Master of Arts In:
  Comparative Sociology
  Economics
  English
  History
  International Studies
  Linguistics
  Political Science
  Spanish
Master of Fine Arts in Creative Writing
Master of Science In:
  Biology
  Chemistry
  Computer Science
  Environmental and Urban Systems
  (jointly with the College of Engineering and Design)
  Geology
  Mathematical Sciences
  Psychology
  Physics
Doctor of Philosophy in:
  Biology
  Computer Science
  Economics
  Geology
  History
  International Relations
  Psychology
  Sociology

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 Languages 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
Community College Teaching
Curriculum and Instruction
Educational Leadership
Exceptional Student Education

College of Engineering and Design
Master of Science In:
  Civil Engineering
  Computer Engineering
  Construction Management
  Electrical Engineering
  Environmental Engineering
  Environmental and Urban Systems
  Industrial Engineering
  Mechanical Engineering
  Master of Landscape Architecture
Doctor of Philosophy in:
  Electrical Engineering

College of Health
Master of Science In:
  Dietetics and Nutrition
  Medical Laboratory Sciences
  Occupational Therapy
  Physical Therapy
Master of Public Health

School of Hospitality Management
Master of Science In Hotel and Food Service Management

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

School of Nursing
Master of Science in Nursing

College of Urban and Public Affairs
Master of Science in Criminal Justice
Master of Health Services Administration
Master of Public Administration
Master of Social Work
Doctor of Philosophy in Public Administration (jointly with FAU)
Doctor of Philosophy in Social Welfare

North Campus Programs

College of Arts and Sciences
Master of Fine Arts in Creative Writing

College of Education
(Contact the College for information.)

College of Health
Master of Public Health

School of Hospitality Management
Master of Science in Hotel and Food Service Management

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

School of Nursing
Master of Science in Nursing

College of Urban and Public Affairs
Master of Science in Criminal Justice
Master of Health Services Administration
Master of Public Administration
Master of Social Work
Doctor of Philosophy in Public Administration (jointly with FAU)
Doctor of Philosophy in Social Welfare
Broward County Programs

College of Business Administration
Master of Accounting (BC)
Advanced Certificate in Accounting (UT)
Master of Science in Finance (UT)
Master of Science in Taxation (UT)
Doctor of Philosophy in Business Administration (UT)

College of Education
Master of Science in Adult Education and Human Resource Development (BC)
Master of Science in Elementary Education (BC)
Courses for Teacher Education (BC)
Courses in Vocational Education (BC)

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

School of Hospitality Management
Courses in Hospitality Management (BC)

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

Primary Location:
BC = Broward Program - Davie
UT = University Tower - Fort Lauderdale

In addition to the degree programs, a variety of support courses are offered from the College of Arts and Sciences.

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
Awarded by an academic unit to a student at the time of awarding a bachelor's degree; or upon completion of the appropriate coursework to a student who already has a bachelor's degree.

An 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. An 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
- Gerontological Studies
- International Studies
- Judaic 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
Banking
International Bank Management
International Business Marketing

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 and Design
Professional Certificates in:
- Heating, Ventilation, and A/C Design
- Industrial Safety Production and Manufacturing

College of Health
Occupational Therapy

School of Hospitality Management
Lodging Management
Food Service Management
Travel and Tourism Management

School of Journalism and Mass Communication
Professional Certificate in Student Media Advising

College of Urban and Public Affairs
Professional Certificates in:
- Gerontology
- Human Resource Policy and Management
- International Comparative and Development Administration
- Justice Administration and Policy Making
- Public Management
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 Languages 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
Community College Teaching
Curriculum and Instruction
Educational Leadership
Exceptional Student Education

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

College of Health
Master of Science in
Dietetics and Nutrition
Medical Laboratory Sciences
Occupational Therapy

Master of Public Health

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

College of Urban and Public Affairs
Master of Science in Criminal Justice
Master of Social Work

For more information, call the Office of Adult and Student Information Services (OASIS) at (305) 940-5669; or the appropriate college or school.
Office of Admissions

Florida International University encourages applications from qualified applicants without regard to sex, physical handicap, or cultural, racial, religious or ethnic background or association.

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 an 'B' average in upper level work, or a combined score of 1500 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 500 or higher on the Test of English as a Foreign Language (TOEFL). 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. The applicant must check the individual departmental requirements. For TOEFL 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.

Application Dates

Summer
February 1: Last day for International students to submit applications and all supporting documents for Summer Term.
Last day to submit applications for Summer Term.

Fall
April 1: Last day for International students to submit applications and all supporting documents for Fall Term.
Last day to submit applications for Fall Term.

Spring
September 1: Last day for International students to submit applications and all supporting documents for Spring Term.
Last day to submit applications for Spring Term.

All international applications not received by the deadline date will be considered for the following term.

Transfer of Graduate Credit from Other Institutions
Doctoral programs may accept a maximum of 36 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

e. the course was completed within the six years preceding admission to the program (does not apply to credits earned as part of a completed graduate degree)

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
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 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.
Office of the Registrar

The Office of the Registrar is responsible for directing the University Registration activities, including off-campus course registration, and establishing, maintaining, and releasing students' academic records. The office is also responsible for space and scheduling, enrollment certification, Veteran's Affairs, and graduation.

The University Park office is located in PC 130, 348-2383, the North Campus office is located in ACI-160, 940-5750, and the Broward Programs at Broward Community College, Central Campus, 475-4160 and University Tower, 355-5236.

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 it.

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 will 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 15 undergraduate level and 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, obtaining admission into a formal Certificate Program or obtaining 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 approved 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 the 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 by 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 usually 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 require-
ments 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 obtaining and submitting the form to 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-160, North Campus; or at the Broward Program, BCC Central Campus, 475-4160 and University Tower, 355-5236.

Registration for courses is as follows:

Registration Week 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 Registration Week and lasts for one week only. 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.

Registration Day is held prior to the beginning of the term. Students who have not registered should do so at this time to avoid a $100.00 late registration fee. (Check the Academic Calendar for the date.)

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

Telephone Registration
All students are able to register, add and drop courses using a touchtone telephone. Students able to use this system are given a security access code and information on the Voice Response Telephone Registration system by the Office of Registration and Records.

Immunization
To register for courses, students, under the age of 40, must provide the University Health Clinic (Student Health Center, University Park; HM 110, North Campus) with documentation of immunization against measles and rubella. Students should contact the Health Clinic for more information.

Late Registration Fee
Any student, degree-seeking or non-degree-seeking, who initiates registration after Registration Day is assessed a $100.00 late registration fee. A student 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 (Refer to the Academic Calendar for specific dates). During this period a student may add courses or register with a late registration fee. Students may also drop courses or withdraw from the University with no records kept of the courses and without a tuition fee liability. The student must submit a drop/add card to the Office of the Registrar to officially drop a course. If the tuition fee has already been paid, the student must fill out a Refund Request Form with the Cashier’s Office.

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

Late Drops
Courses officially dropped after Drop/Add period and through the eighth week of the term (summer terms have different deadlines. Please refer to 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. The student must submit a Course Drop Form to the Office of the Registrar to officially drop a course. 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 for Late Drop 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. The instructor will designate whether the student was passing or failing the course at the time of the appeal to drop. A ‘WP’ grade indicates the student withdrew from the class with a passing grade. A ‘WF’ grade indicates the student withdrew from the class with a failing grade. The ‘WF’ grade is calculated in the students term and cumulative GPA. The deadline to submit this appeal is the last day of classes of the term.

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 filled out 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 Drop/Add (first week of classes) period will contain no reference to the student being registered that semester and no tuition fee will be assessed. If the tuition has already been paid, a Refund Request Form must be filled out with the Cashier’s Office. If a student withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund, less a bonding fee, will be made.

The transcript of a student who officially withdraws after Drop/Add period and before the end of the eighth week of the term will receive contain a ‘WI’ 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 by submitting the Appeal for Late Withdrawal form. A withdrawal 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 submit appropriate documentation. The instructor will designate whether the student was passing or failing the course(s) at the time of the appeal to withdraw. The deadline to submit this appeal is the last day of classes of the term.

Grading System

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<td>A-</td>
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<td>EM</td>
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</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 on 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 Drop/Add period (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 way in which students may repeat a limited number of courses to improve their grade point average (GPA) by having only the grade received on the last repeat used in its 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. 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’, ‘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 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 during 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.

Grade Reports
At the end of each semester, the Office of the Registrar mails registered students a copy of their final grades.

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. The Application for Graduation must be signed by the academic advisor prior to being submitted to the Office of the Registrar.

Students who do not graduate must complete the remaining requirements needed for graduation and must re-apply for graduation. Failure to do so will result in a cancellation of graduation. The student will need to re-apply for graduation.

Academic Warning, Probation, and Dismissal

Warning
A student whose cumulative GPA falls below a 3.0 (graduate) will be placed on warning, indicating academic difficulty. The warning will appear on the student’s end-of-term grade report.

Probation
A 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 to enroll.

Dismissal
A student on Probation whose cumulative and semester GPAs fall below a 3.0 (graduate) 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 Educational Records
The release 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.

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;

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 procedure 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

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.

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 3-5 working days 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 penalize students arbitrarily 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 130, University Park; and in ACI-160, 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 in order to expedite the processing of paperwork required to obtain educational allowances from the Veterans Administration.

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

Rate of Payment Number of Dependents
For rate of monthly payment of educational allowances for veterans and dependents, please contact Office of Veteran’s Affairs.

For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs at University Park, PC 130, 348-2838.

Enrollment Certification
The Veterans Affairs Office also verifies the status of all past and present students for purposes of Social Security, tuition reimbursement, employment, loan deferrals, and other types of certifications.

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

The preceding enrollment status is for continuous enrollment for the semester that the student is attending. Reduction of course load will reflect the student’s status. See certification office 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 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 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 bono 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 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.
11. Proof of admission to a licensed practicing profession 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.

b. No contrary evidence establishing residence elsewhere.
c. 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

The University adheres to the philosophy that a student is entitled to a college education regardless of his or her financial condition. The Financial Aid Program at the University includes scholarships, grants, loans, and employment.

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.
- Students loans are available to students and/or their parents at low interest rates (5 to 11%) with the option to defer repayment until after graduation or after the student drops below half-time.
- Student employment allows students to earn money toward their education by working part time while attending school.

Applying for Assistance

Applying for financial aid is a lengthy process, therefore it is important to begin early. 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.

Completing your financial aid forms correctly and getting them in by the published deadline increases your potential to receive the maximum financial aid for which you are eligible.

Admissions

To be eligible for most financial aid programs, you must be admitted to a degree program; however, you should not wait until you are admitted to apply for assistance. Students pursuing or enrolled in qualified Certificate Programs are only eligible for Federal Family Education Loans.

Summer Assistance

Most financial aid funds are exhausted after students are awarded assistance for the Fall and Spring semesters. Typically, Federal Family Education loans are the primary source of assistance for Summer enrollment.

Transfer Student Procedures

Generally, financial aid cannot be transferred from one post-secondary institution to another during the academic year. If you plan to transfer in mid year, apply to both your current institution and Florida International University to insure consideration for all applicable financial assistance.

Eligibility Criteria

To qualify for most need-based financial assistance you 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 study; and,
- maintain satisfactory academic progress.

Additional requirements may apply depending on the aid programs awarded to you.

Determining Financial Need

Financial need is defined as the difference between the estimated cost of attendance and the amount you and your family can reasonably be expected to contribute towards your educational expenses. Need analysis is a federally mandated formula which measures, in an equitable and systematic way, how much individual students and their families can afford towards their higher education. Income, assets (other than your 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

Students who complete their files by the priority deadline of March 15, have the greatest opportunity of being considered for those financial aid programs they requested and are qualified to receive for the academic year. Files are processed according to the completion date.

A financial aid package may consist of a combination of gift-aid (grants) and self-help (loans, work) funds. Other sources of assistance such as merit awards, 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

Walk In Services

A Financial Aid Officer is available Monday through Friday from 8 a.m. - 5 p.m. to help you with:

- Answering general questions.
- Distributing/Accepting Application Materials.
- Making an appointment with a Financial Aid Administrator for more complex questions.

Financial Aid Counseling

A Financial Aid Administrator is available by appointment, to assist students with special problems.
technical questions, exceptions, etc. All appointments should be scheduled at least a week in advance.

Scholarship Search Service
A Computerized Scholarship Data Base, which provides information on additional sources of financial aid, is now available free of charge. Students who wish to access this information, must make an appointment at the Financial Aid office.

For additional information and application materials contact the Financial Aid Office:

University Park, PC 125, Miami, FL 33199

North Campus, 3000 NE 145 St., ACI 160, Miami, Florida 33181-3600, VRU (305) 348-2431
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 fees for 1999-96 are as follows:

<table>
<thead>
<tr>
<th>Credit Hour Fees</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$56.49</td>
<td>$219.90</td>
</tr>
<tr>
<td>Graduate, Thesis or Dissertation</td>
<td>$108.41</td>
<td>$361.43</td>
</tr>
</tbody>
</table>

Student Fees
- Athletic: $10.00
- Health: $30.00

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 Registration and Records. 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 as part of the fee payment must present the original and the student copy to the Cashier's Office at the time of payment, 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. 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. 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.

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.

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 120, or at North Campus ACI 140. Broward students may pay at the Broward Community College Cashier's Office, by mail or at the Cashier's Office at University Park or North Campus. Night drop boxes outside the Cashier's Offices are available 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. 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 a $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 University Controller's Office, PC 510 on the University Park Campus or at the Cashier's Office ACI 140, on the North Campus before the published 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 and their final fee assessment and have their class schedule validated at the Cashier's Office prior to the published last day to pay fees. Failure to have the schedule validated will result in the cancellation of all classes for the semester. The validation process cannot be handled through the night drop or by mail, but must be done in person.

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.

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
registration has 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.

Vehicle Registration Fee
A non-refundable annual vehicle registration fee is applicable to all persons operating or parking a motor vehicle on both the University Park and North Campuses. Upon payment of the applicable fee and registration of the vehicle at the University Public Safety Department each vehicle will be assigned a parking decal which must be permanently affixed on the vehicle. The decal is required for all vehicles parking on campus. Parking and traffic regulations are strictly enforced.

Other Fees
Library Fines
Per book per library hour .25
Maximum fine per book $5.00
Lost book fine $35.00

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 of $15 or 5% of the amount of the check (whichever is greater) be assessed on a check returned unpaid by the bank for any reason. 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 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 two years 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

General Education requirements; the University Learning Center, providing CLAST counseling and academic preparation, national test administration, and assistance in improving academic skills; the Faculty Scholars and Invitational Scholars awards and the University Honors Program; Academy for Art of Teaching; and ROTC. The office is located in DM 368, University Park, 348-2099; and ACI-180, North Campus, 940-5754.

Office of Graduate Studies

Richard L. Campbell, Dean Ruben D. Jaen, Coordinator

The Office of Graduate Studies is under the administration of the Dean of Graduate Studies, who reports directly to the Provost and Vice President for Academic Affairs.

The Graduate Dean is assisted by a Coordinator of Graduate Studies, 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, acquisition and distribution; University clientele linkages for development support and productivity; graduate program external advisory councils; graduate program review and accreditation; and planning, development, budgetary support and external resources in cooperation with academic deans.

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.

Human Research Committee. Dr. K. Galen Kroeck, Professor of Management, Chairs the University Research Council which, among other things, is in charge of making decisions and giving approval to the use of human subjects on projects and research conducted by University professors and students. In addition, 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 520, University Park, or call 348-2455 for an appointment.

Information Resource Management (IRM)

All computing and telecommunications activities on FIU campuses are under the direction of the Associate Vice-President for Information Resource Management (IRM). The three major units of IRM are University Computer Services (UCS), the Southeast Regional Data Center (SERDAC), and Telecommunications.

University Computer Services (UCS)

University Computer Services (UCS) provides instructional and research computing support to the faculty and students of all FIU academic departments on the University Park, North Campus, and Broward cam-
puses. Computer hardware accessible to students includes a DEC Alpha 7620 super minicomputer running Open VMS, a SUN SPARCserver 690MP and SPARCserver 390 running Solaris, and numerous IBM-compatible and Macintosh microcomputers, X terminals, and Unix workstations. Services of most interest to students include: introductory seminars and workshops on the most widely used equipment and software; comprehensive documentation libraries; open access terminal labs; dial-up and direct VAX/SUN access; open microcomputer labs; a discount microcomputer store; assistance with micro-to-larger system data communications; and peer and professional consultation on various other computer-related problems, within the limits defined by the academic departments.

In addition to instructional computing support, UCS, through its Application Systems and User Services Groups, provides support for the administrative functions of the University, including Admissions, Registrations, and Financial Aid and Cashiers.

Lab Use: Students are required to have a valid FIU picture ID card to use UCS terminal and micro labs. Occasionally, 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. The University Park student lab facility is located in PC 411, PC 413, PC 414, PC 415, PC 416, PC 419, PC 422, PC 322, BA 150, BA 160, and GC 111. The North Campus combined micro and terminal lab is located in ACI-293. For a recorded message with current student lab hours, call 348-2174. Please direct other University Park inquiries to the staff offices in PC 413A, 348-2568. Call 340-5589 for information concerning the North Campus facility.

Part-time Student Employment:
Each semester, University Computer Services employs over 35 part-time, student user consultants. Although primarily responsible for maintaining a good working environment and flow of users through lab facilities, these consultants also diagnose and resolve system and equipment malfunctions, and train other students to use the tools and computing resources available in the labs. Given the many different disciplines of the lab users, exposure to a large variety of hardware and software, and direct training by UCS professional staff, working as a user consultant for several semesters provides an excellent career experience and reference. Students with better than average interpersonal and computer skills are invited to apply.

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 SUN/Unix and DEC VMS cluster services.

SERDAC’s computers allow convenient access to the Internet and BITNET international computer networks. Information on these services may be obtained by calling 348-2700.

SERDAC’s word processing facility offers a multitude of services, from the high volume generation of personalized letters and envelopes, to the electronic scanning of most printed materials. For information concerning this facility, please call 348-3069.

Primary operations and dispatch services for faculty, student, and administrative printout are located in University Park, PC-436. Please call 348-2109 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 service center for Zenith and Apple personal computers. Please call 348-2117 for information.

Telecommunications
This organization is responsible for providing voice and data communications services to the University community. Faculty and staff are the primary users of the University telephone system, and they share with students several intercampus data communications networks. These provide users access to all University computing resources, and gateways to statewide, national, and international computer networks.

FIU Telephone Operators are on duty seven days a week. They are responsible for servicing incoming information calls for the University Park (348-2000) and North Campus (940-5500) Campuses.

Since FIU Operators can notify the proper authorities in case of on-campus emergencies, they may also be reached by dialing "0" at University Park and ext. 5500 at North Campus. However, in an emergency, direct contact should also be made with Public Safety by dialing ext. 2911 at University Park and ext. 5911 at North Campus.

International Education, Programs and Activities
Dennis Gayle, Director
The University Office of International Education, Programs and Activities coordinates all international programs and activities within Florida International University. The staff work with students, as well as with faculty who are interested in international exchange opportunities at cooperating universities in other countries, or in other forms of education abroad, such as internships and study abroad. This Office develops agreements with foreign universities and governments, in order to extend the range of such opportunities. The staff provides information concerning student Fulbright programs and National Security Education Fellowships, inter alia. This Office proposes international initiatives, in consultation with Colleges and Schools, assesses current international programs, develops long-term plans for international activities, and secures external funds for program development. In addition, the International Office encourages the further internationalization of the University’s curriculum, and interacts with local as well as international interest groups, in support of FIU’s international mission, while also collecting and disseminating information about the international activities of faculty and students.

Located in PC 538, University Park, 348-1913.
Libraries

Lawrence Miller, Director
Antione Downs, Associate Director

The University Libraries are housed in the Athenaeum (AT) at University Park, and in a new Library building (LIB) on the North Campus.

The total library collection comprises more than a million 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 7,025 scholarly journals and other serials.

A computerized catalog of library holdings provides a listing of materials in both FIU Libraries, and other libraries in the State University System. 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.

In keeping with the University’s commitment to day and night operation, the libraries are open when the University is in session and during vacation periods. For exact library hours, please consult the posted schedules at LUIS, the Library’s online catalog. 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 of the other campuses of the State University System. For access to libraries in the southeast Florida region, students, faculty and staff should check at the circulation desk concerning SEFLIN library privileges.

A state-of-the-art system of interlibrary loan links the libraries with others throughout North America. It includes the use of telefacsimile for time-critical requests.

Instructional Media Services

Blanca Riley, Director

Instructional Media Services specializes in the development, production, and utilization of various types of audiovisual and communication media for educational purposes. The services offered are listed below.

The Centers for Instructional Technology are do-it-yourself media and graphic arts production labs, providing technical assistance to faculty, staff and students in the creation of visual aids such as slides, overheads, flyers, posters and charts for classroom presentations, papers or projects. Professional help and instruction is available on the premises in the use of Macintosh computers, letter machines, copystand cameras, overhead-makers, laminators, etc. While consumable items such as films, posterboard and transparencies are to be provided by students, there is no fee for either the help provided or the use of the facilities. (AT-134 at University Park; LIB-150 at North Campus).

Photography Services provides still photographic support and services to faculty and staff for educational, training and informational purposes. (AT-139 at University Park; services available to all FIU campuses).

Instructional Graphics prepares artwork, graphs, illustrations, charts and posters for faculty and staff. (AT-135 at University Park; serves other campuses through fax and inter-office mail).

Instructional Television (VH-245 at University Park) provides technical, creative and professional services in the production of video and multimedia programs for instructional, research and general information/training purposes. This area provides a wide range of video services, including: the design and production of educational and training programs; the documentation of classroom guest speakers and special presentations; and programs for individual or group instruction.

Equipped for studio productions or taping at remote locations, post-production facilities may be used to produce a finished edited program. In the field of distance learning, the department will provide the means of transmitting live interactive classes to remote locations. Two electronic classrooms located at University Park offer faculty the opportunity to expand the walls of the traditional classroom to reach students throughout South Florida. The department also arranges for satellite teleconferences (both uplink and downlink), schedules and maintains video conference equipment on both campuses to allow two-way audio and video for classes, meetings and conferences, and assists in interactive video projects.

Available to faculty and staff only.

Equipment Distribution and Scheduling provides a large variety of educational audiovisual equipment for use by faculty and staff. Services are available to students for classroom use and when sponsored by professors. (PC-236 at University Park; ACI-193 at North Campus). (These services are available to students, as well as faculty and staff.)

Other services available are consultation on the purchase, rental, and installation of audiovisual equipment; and professional guidance on a wide range of audiovisual instructional topics and technology. For more information, contact 348-2811, AT-136, University Park; or 940-5929, LIB-150, North Campus.

Consortium Media Privileges

Faculty, staff and students can use the audiovisual services on any campus of the Consortium. AV materials and equipment cannot be borrowed.

Sponsored Research and Training

Thomas A. Breslin, Vice Provost
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 contracts and grant pro-
The Art Museum

Dahila Morgan, Director

The Art Museum at Florida International University has served the South Florida community for the last 15 years presenting exhibitions and art lectures of local and national 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 Students for the Art Museum, a student organization that promotes awareness of the Museum’s progress on campus.

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 Family Collection. One of the world’s most important international outdoor sculpture collections, includes works by Calder, De Kooning, Miro, 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 has been recognized for its excellence by the grants it has received, most recently the National Endowment for the Arts; The Institute for Museum Services; The National Endowment for Humanities; The Florida Endowment for the Humanities; The Dade County Council of Arts and Sciences; The Metropolitan-Dade County Cultural Affairs Council and the Florida Arts Council.

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: Alberto Giacometti, Draftsman and Sculptor; Mira, Mira, Mira: Los Cubanos de Miami; Adolph Gottlieb: Paintings and Works on Paper; Marcel Duchamp; Louise Bourgeois: The Phillips Collection in the Making: 1920-1930; imagenes Liricas: New Spanish Visions; CUBA-USA: The First Generation; Antoni Tapiés in Print; Agustín Fernandez: A Retrospective; and the annual American Art Today series featuring contemporary artists exploring traditional themes including Still Life, The Figure in the Landscape, The Portrait, Narrative Painting, The City, Surface Tension; and Clothing as Metaphor.

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, David Ross, and Michael Kimmelman.

The Museum is operated by the Director, the Coordinator of University Collections, the Registrar/Preparator, the Community Relations/Education Coordinator, and the Program Assistant plus a staff made up partially of University students working through an internship program.
Business and Finance

Environmental Health and Safety
The Environmental Health and Safety department administers the health, safety and risk management related programs that either directly or indirectly assure the health and safety of the University community, and reduce the potential for worker’s compensation and other liability claims to be brought against the State. These programs are in large part responsive to various state and federal regulatory requirements. Among the programs and activities managed by the Department are: Chemical and biological materials and waste management; asbestos operations and maintenance planning; fire code inspections, enforcement and planning; radiation and laboratory inspections and safety compliance programs; emergency operations planning; employee accident and injury investigations; indoor air quality investigations; and various insurance/risk management services for the University community.

The department’s mission is accomplished through close coordination with other university departments.

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

Auxiliary Services also supervises the Duplicating Services which includes a Print Shop, Convenience Copiers and a Total Copy Reproduction Center.

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 traveling 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 a Cashier’s Office at each campus.

American with Disabilities Act
The Assistant Vice President, 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 of other members of the University community. The University has established an HIV/AIDS Committee which includes representation from major University divisions and other University 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, Assistant Vice President, Office of Equal Opportunity Programs, PC 215; Counseling Services, GC 340; and Student Health Services, OE 115; and on North Campus, Counseling Services, SC 261, or Student Health Clinic, TC 110.

Sexual Harassment/
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 policies prohibit 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 policies, 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 an intimidating, hostile or offensive environment as a result of their belonging to a protected class or having a protected status. Illegal sexual harassment includes unwelcome physical contact of a sexual nature, overt or implicit 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 the victim of unlawful discrimination may file a complaint with the Office of Equal Opportunity Programs, PC 215, University Park, Florida 348-2785, in accordance with this procedure.

Facilities Management

Facilities Management provides professional support to plan, design and construct physical facilities to accommodate all aspects of the university mission as defined in the Campus Master Plan. The department is responsible for long-range capital expenditure planning, programing all physical facilities, and campus development. These activities include campus utilities, roads, landscape, building programs, and design coordination, construction administration, furnishing and occupancy coordination. The department is also responsible for space assignment and management. Facilities Management provides staff to the University Space Committee, coordinating all standards and requirements related to facilities and infrastructure for all campuses.

Human Resources/
Personnel Relations

The Office of Human Resources/Personnel Relations 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 the University Park, North and Broward campuses. All services provided by the office are in compliance with applicable federal and state regulations, and include six major human resource management areas: Employment and Recruitment, Training and Development, Classification and Compensation, Benefits, Personnel Records, Employee Assistance and Labor Relations.

In addition to the above mentioned human resource management areas, the Office of Human Resources and Personnel Relations is responsible for the Volunteer Program, Incentive Efficiency Program, Convocation and Employee Awards Ceremonies, American Red Cross Blood Drives, Customer Service Employee of the Month/Year and Savings Bond Campaigns.

The University Park office is located in PC 224, 348-2181; the North Campus office is located in Library 322-A, 940-5545.

Office of Inspector General

The Office of Inspector General assists all levels of management in accomplishing their goals and objectives by furnishing them with independent appraisals, recommendations and pertinent comments concerning the activities reviewed.

The independent appraisal activity includes evaluation of financial results, legal compliance, program results, economy and efficiency, and internal accounting control procedures. The office is also the contact point to receive and investigate allegations of fraud, waste, and other abuses in state government.

Legal Affairs

Legal services are provided to the university under a contract with the law firm of Gunster, Yoakley, Valdes-Fauli and Stewart, P.A. The Office of Legal Affairs provides representation and advice to University administrators, faculty and staff concerning legal issues affecting the university.

Physical Plant

The Physical Plant Department at University Park and North Campus is responsible for the operation and logistics of physical resources; including the maintenance, enhancement, repair and alteration of all university buildings, utilities systems, grounds, roads, and parking lots.

Purchasing Services

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. This same organization structure has been in operation since the university opened in 1972. Most key positions are filled with personnel with over 10 years of service in their units. The stability of personnel as well as the high level of cooperation between the related units of purchasing help to better serve the university.

Training and Development

The Department of Training and Development offers a variety of training and career development programs for University staff.

These programs are carefully designed and planned to cover relevant and timely topics. Program length and presentation techniques
vary according to the objectives of each course, although time for exercises, practice, feedback, and questions is always provided. Program offerings are listed in the Training and Development Calendar. Upon request, programs can be individually scheduled for departments or special interest groups. The programs are tailored to meet the specific needs of the department requesting the training.

The career development programs for targeted employee groups are designed to enhance professional growth and provide promotional opportunities for participants.

The Department of Training and Development also provides internal consulting services in organizational development/transformation. Call 940-5783 for more information.
North Campus, University Outreach, and Enrollment Services

University Outreach
Mory L. Pankowski, Vice President, University Outreach
Arthur J. Bustomante, Director of Marketing
Kurt W. Salsburg, Director Conference Center and Conference Services
J. Patrick Wagner, Director, Academic Credit Programs

The University extends academic credit and non-credit learning opportunities through University Outreach. Courses of instruction are developed and offered in a variety of formats. These include professional development seminars, short courses, workshops, lecture series, and career training. Degree programs and courses for academic credit are offered at levels and locations to increase opportunities for students to access the higher education they desire. Learning opportunities are made available at locations throughout Dade and Monroe counties, on the University campuses, and other locations as appropriate. Schedules are designed to meet student needs. Credit instruction and professional development may be delivered at the worksite upon request. Study abroad courses are available in several disciplines, and are offered in Asia, Africa, Latin America and Europe.

The central office of University Outreach is located in ACI-100, North Campus, 940-5669. Once the Conference Center is completed, it will serve as the headquarters for University Outreach.

Administered through the Vice President of North Campus and University Outreach, the unit carries out its mission to extend lifelong learning opportunities to adult and nontraditional students by providing increased access to University programs.

Academic Credit Programs
Over 200 courses for academic credit are offered annually off-campus in Dade and Monroe counties. Weekend degree programs for working professionals are offered on campus in collaboration with the University’s nine Colleges and Schools. Instruction using telecommunications is offered between campuses, public schools, and other locations with equipped receive sites. An individual, business, agency or association can request that a specific course or degree program be offered.

Registration for Continuing Education credit courses may be accomplished at the office of Registration and Records at University Park and North Campus, and the FIU office at Broward Community College, Central Campus. Special registration arrangements are made to accommodate students meeting at off-campus sites.

An employer, public agency, or professional organization may contract with the University to provide credit courses and degree programs at the worksite. These educational enhancement benefits are arranged to serve the needs of a designated group of individuals at a location and time convenient to them.

To request a course or to find out more about Academic Credit Programs available through the Department, call 940-5663 in Dade, or 1-(800) 310-5548 from other locations.

Professional Development and Conferences
Non-credit programs to develop professional competence, and provide personal enrichment are offered through short courses, workshops, seminars, and certificate programs in collaboration with academic units.

University faculty or professional experts in many disciplines conduct these educational activities.

Continuing Education Units applicable to professional licensing requirements are available in appropriate programs.

A catalog of Outreach program information is published each semester by the Division and is available at the North Campus offices, or by telephone, 940-5669 (Dade and Monroe), 1-(800) 310-5548 (from other locations). Registration is initiated by mail, phone or fax 956-5484 at the above locations, or at the first session of each program on a space available basis MasterCard, Visa, checks or money orders are accepted.

University Conference Center
The Florida International University Conference Center is scheduled to open in September 1995. Designed by Bermello, Ajamil, and Partners, Inc., architects, and overlooking Biscayne Bay at North Campus, the FIU Conference Center will have 28,000 square feet of meeting space to accommodate 1,100 persons on any given day. The Center will feature two computer laboratories, a waterfront dining/multipurpose room, meeting and seminar space, two state-of-the-art case-study rooms, and will be equipped for interactive telecommunications and simultaneous translation of three languages. It will be the site of academic conferences, lectures, workshops, professional development, and personal enrichment programs.

Office of Community College Relations
The Office of Community College Relations serves as the University’s liaison with the 28 Florida public community colleges. A primary responsibility of the office is to provide current academic program information to community college administrators, academic advisors and counselors, faculty and students. This is accomplished in part by the annual publication of the FIU Transfer Student Counseling Manual which is distributed to all community colleges. The manual outlines the requirements of each discipline for the bachelor’s degree at FIU and lists prerequisite courses which should be completed at the community college prior to transfer. Special admission criteria are also included.

The office also publishes a newsletter each term which updates academic programs, academic policies and regulations as well as student support services.

Community college students are strongly encouraged to complete the associate in arts (AA) degree which is designated by the State-
Enrollment Services

Office of Admissions

The Office of Admissions is responsible for the recruitment and admission of undergraduate applicants. Staff provides information to prospective students, guidance counselors, and the general public to inform them of the academic and other educational programs offered by the University. The department also collects and processes official application materials for all graduate admissions. For specific information on the application process and requirements for admission please refer to the General Information section of this catalog.

Location: PC 140, University Park, 348-2363; ACI 160, North Campus, 940-5760; Trailers, Broward Program, 475-4150.

Office of Financial Aid

Financial Aid is provided to students who otherwise would be unable to pursue their educational goals at the University. Financial Aid includes scholarships, grants, loans and campus employment. Financial need is determined on an individual basis using a standard formula provided by the U.S. Department of Education. For specific information on types of assistance, eligibility, application procedures and other requirements, please refer to the General Information section of this catalog.

Location: PC 125, University Park, 348-2431; ACI-160, North Campus, 348-2431.

Office of the Registrar

The Office of the Registrar is responsible for coordinating the University registration activities, including off-campus course registration, and establishing, maintaining and releasing students' academic records. The office is also responsible for Space and Scheduling, Veteran's Affairs, and Graduation.

The Office of the Registrar staff has the responsibility to assist the student, faculty, other administrative offices, and the general public; to hold safe and preserve the confidentiality of the student's records; and to ensure the integrity of the University's policies and regulations.
Student Affairs

The Division of Student Affairs seeks to educate a diverse body of students by supporting their growth, both personal and academic. We promote cross-cultural outreach and understanding, provide programs and services to encourage student development, and prepare students to become contributing members of their communities.

The Division is comprised of the following departments and programs: Campus Ministry, Career Planning and Placement, Disability Services for Students, Greek Organizations, Intercollegiate Athletics, International Student Services, Minority Student Services, Orientation, Precollegiate Programs, Public Safety, Student Activities, Student Counseling, Student Government, Student Health Services, Student Judicial Affairs, University Centers, University Housing, Victim Advocacy, Volunteer Action Center, and Women's Center.

Student Affairs offices are located at University Park in Graham Center, the Golden Panther Arena and the Modular Building on the west side of campus. On the North Campus, offices are located in the Wolfe Center and the Health Center.

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: GC 340, University Park, 348-2215; SC 265, North Campus, 940-5609, or 940-5610, and 956-5247.

Career Planning and Placement

Career Planning & Placement (CP&P) is user friendly and assists students with information about majors, jobs, and careers. To help students in these areas, CP&P has four programs: Career Advisement, Career Mentoring, Career Placement, and Experiential Education (Co-op, Internships and career related volunteer work).

CP&P is highly automated and uses the Internet (GOPHER), the Electronic Bulletin Board (EBB), and Voice Mail to provide students and alumni with up-to-date information regarding the World of Work and networking opportunities. The offices have a 24-hour Golden Panther Jobline which offers students and alumni an opportunity to listen to employers describe actual job vacancy announcements. For students who register with CP&P, there is a resume referral system which automatically refers students' resumes to interested employers; and a PhoneMaster system which calls students at home with specific career-related information.

CP&P offers numerous workshops and seminars, schedules on-campus interviews, Career Fairs, and Law/Graduate School days. The Office houses a comprehensive Career Library, has an information hotline (FIU-GOAL), and provides evening hours at University Park.

Location: GC 230, University Park, 348-2423; SC 260, North Campus, 940-5813 and University Center at Davie, 474-1404.

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, chronic health problems, psychological disorders, and temporary 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 is 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 225, University Park, 348-3532; Wolfe Student Center 260, North Campus, 356-5305; Bldg. 9, Room 224, Broward Program, 948-6793; TTY/TDD 348-3852.

Both the University Park and North Campus offices will be relocating in Fall 1995. The University Park office will be on the first floor of the Graham Center and the North Campus office will be on the first floor of the Wolfe Center. The North Campus office will be in temporary locations until further notice.

Greek Organizations

Greek organizations contribute to the University by promoting leadership, scholarship, service, social activities and brotherhood and sisterhood. There are nine fraternities and eight sororities coordinated by a Greek Advisory Board. An Interfraternity Council governs fraternities and a Panhellenic Council governs sororities. There is a National Pan-Hellenic Council governing body for historically black fraternities/sororities and an Order of Omega, an honorary and leadership society that promotes scholarship among Greeks. A formal rush period is held in the Fall semester, and an informal rush is held during the Spring term.

Location: GC 316, University Park, 348-1293.

Intercollegiate Athletics

FIU is a member of the National Collegiate Athletic Association (NCAA), and the Trans America Athletic Conference (TAAC) for men and women. The University has competed at the Division I-AAA 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. Women's
programs consist of basketball, volleyball, soccer, golf, tennis, track and cross country. Men's programs consist of basketball, soccer, baseball, golf, tennis, 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 16 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
Campus Recreation offers a variety of intramural sports and recreation activities designed to improve physical fitness and develop an appreciation for the value of physical exercise.

Active sport clubs include Crew, Fencing, Softball, Rugby and Boxing. Our nine intramural sports include bowling, basketball, flag football, golf, soccer, softball, co-recreational softball, and volleyball. Events such as power-lifting competitions, golf, soccer, racquetball and tennis tournaments, deep sea fishing trips, and other recreation interests are featured each semester.

Campus Recreation also offers non-credit classes in a variety of subjects.

Athletic and Recreational Facilities
The Golden Panther Arena is a multipurpose facility which serves as the base for University programs in physical education, athletics, and recreation. The Arena has a seating capacity for 5,000. It contains racquetball courts, basketball courts, an auxiliary court area, and meeting rooms. The arena is open to students, faculty, staff, and alumni with valid University identification cards. FIU students are admitted to all regular season home athletic events free of charge upon presentation of a valid University Identification card.

The Baseball and Soccer stadiums are lighted and each have a seating capacity for 1,500 spectators.

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 $50 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/or sun-bathing. 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 two full-sized basketball courts near their Racquet Sports Centers.

For additional information or hours of operation call:

Campus Recreation: 348-2951
University Park; 948-4571 North Campus.

Fitness Center: 348-2575, University Park; 940-5678, North Campus.

Golden Panther Arena: 348-2900.

Racquet Sports Center: 348-2763, University Park; 948-4572, North Campus.

Aquatic Center: 948-4595.

International Student and Scholar Services
International Student and Scholar Services provides assistance on matters regarding immigration regulations and procedures related to non-immigrant legal status. The staff provides counseling and advice on academic, personal and financial concerns, and serves as a liaison to academic and administrative departments throughout the University. An orientation program is offered each semester as well as international and inter-cultural programs to assist students in adapting more effectively to the University community and to living in Miami.

An active International Student Club 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 educational community.

Location: GC 217, University Park, 348-2421; UC 260, North Campus, 940-5813.

Minority Student Services
Minority Student Services provides minority students with personal, academic, social, and cultural support needed for the achievement of educational goals. Staff provides orientation, leadership development, counseling, career and academic advisement, financial assistance and tutorials; and serves 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' physical, mental and social well-being.

Location: GC 216, University Park, 348-2436; North Campus, 940-5817.

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 340, University Park, 348-3828; UC 363, North Campus, 940-5804.
Pre-collegiate Programs

Pre-collegiate Programs provides academic enrichment, career planning and scholarship opportunities to promising minority students at the high school level. Pre-collegiate programs also expose high school students to the university environment and facilitate their transition to college.

Location: GC 216, University Park, 348-2619.

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 and local laws and University regulations.

Public Safety also enforces University Parking Rules and Regulations. A parking decal or permit is required in order to park any vehicle (including motorcycles, motorbikes, and mopeds) on campus. Decals may be purchased in the Cashier's office, or in Public Safety's Parking Services office if paid by check or money order. If paid at the cashier's office a receipt will be issued which must be presented at Parking Services along with a copy of the current vehicle registration. After the vehicle is registered a decal will be issued. The entire decal (uncut and unaltered) must be permanently affixed to the vehicle at the designated location. All regulations are strictly enforced. For more specific information please refer to the University Parking Rules and Regulations brochure available on either campus.

Location: Tower, University Park, 348-2626 (Information), 348-2911 (Emergency); SO II, North Campus, 940-5556 (Information), 940-5911 (Emergency). Parking Services: University Park, 348-3615; North Campus, 940-5960.

Student Activities

Student Activities provides learning opportunities for students to practice and develop leadership, communication, problem-solving, program planning, organization, implementation, and evaluation skills. Activities are co-curricular and cover all aspects of the educational experience. Over 125 registered student organizations exist to enrich campus life and contribute to the social, cultural, and academic growth of students. Students may organize additional groups that promote the University's educational mission.

Student Activities is also responsible for new student Orientation, Student Handbook, Student Government Association, Student Organizations Council, Student Programming Council, the Volunteer Action Center, and student media.

Location: GC 340, University Park, 348-2137; SC 363, North Campus, 940-5804; LA building, room 203, Davie, 236-1518; University Tower, room 506, Broward, 355-5279.

Student Counseling Center

The Student Counseling Center focuses on enhancing the emotional and cognitive well-being of students. The following services are provided:

1. Individual, couple and group counseling for problems associated with anxiety, depression, interpersonal relationships, coping skills and self-esteem;
2. Relaxation techniques and biofeedback training;
3. Psychological testing when appropriate and ethical workshopping on mental health and wellness issues.

The Student Counseling Center also offers a structured, supervised training program for graduate level students who are specializing in the mental health field.

The Student Counseling Center is staffed by licensed psychologists and mental health counselors with expertise in dealing with student concerns and development. All services are provided to students free of charge. Complete confidentiality is assured.

Location: GC 211A, University Park, 348-2434; SC 260, North Campus, 940-5305.

Student Health Services

The Student Health Service provides affordable, quality & professional primary health care for routine, non-emergency illness and injuries. The department promotes health education, wellness programs, and preventive medicine. The Health Center stimulates student awareness of holistic health behaviors which may be integrated into lifestyle practices to maintain optimal physical and mental health.

Services include routine office-based medical care; physical examinations; health planning; diagnosis and treatment; HIV testing; laboratory testing; 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 be immediately called 24 hours a day.

Office visits are free to students who present an identification card valid for the current semester. Laboratory, immunizations, and pharmacy services are provided for a nominal fee. In addition, the student is responsible for the cost of all services rendered at off-campus medical facilities. Therefore, the University strongly recommends that all students have adequate health insurance coverage. Brochures describing low group-rate health insurance coverage exclusively for
students may be obtained at the student Health Center on both campuses.

Students may participate in many health educational programs that stress proactive prevention, including Student Health Advocates of Peer Education (SHAPE), and the Student Health Advisory Council (SHAC), fitness testing, EMPOWER motivational diet groups, running/walking club, AIDS peer educators, and many others.

The Wellness Center features a library of health educational resources including textbooks, journals, audiotapes, videotapes, computer interactive software programs, CD-ROM programs, and laser videodisc media. All of these resources are available for student, faculty and staff use within the Wellness media room, upon presentation of a valid FIU I.D.

Please see the Student Handbook for more detailed information on Student Health Services.

Location: Student Health & Wellness Center:

University Park
Appointments and Information 348-2401
Administration 348-3080
Immunization 348-2688
Health Education/Wellness Center 348-4020

North Campus
Student Health and Wellness Center 940-5620 or 956-5307

Student Judicial Affairs

The Office of Student Judicial Affairs is established to ensure that the policies and procedures regarding student rights and responsibilities and the Code of Conduct, which supports 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.

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 Affairs. 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 extra-curricular activities.

The "Student Handbook" provides specific information regarding the "Student Code of Conduct". Location: GC 214A, University Park, 348-3939.

University Housing

University Housing offers convenient accommodations at both University Park and the North Campus. All units are apartment style and have kitchens, private or semi-private baths, and basic furnishings including beds, desks, tables, chairs and window blinds. A variety of floor plans are available, including studio, one bedroom, and two bedroom units. A few four bedroom suites are also offered. Prices vary depending on the type of unit and campus location. All housing agreements are issued for the academic year with summer assignments available. A $100 damage deposit is required at the time of application.

Each housing facility is located conveniently to library and classroom buildings and provides ready access to a variety of on-campus recreational, social, and cultural activities. By electing to reside on campus, a student may enjoy the benefit of regular interactions with faculty, staff and students.

The department also serves as a liaison between commuter students searching for housing and community members seeking renters. Current listings. Contact: Jim Wassenacker, UP, Location(s): UP 102, Residence Hall, North Campus, Phone(s): 348-4190, UP; 940-5583, North Campus.

Victim Advocacy Program

The Victim Advocacy Center provides emergency crisis intervention, on-going support, advocacy, and resource referral to students who have been victims of crime or abuse. The Center provides awareness and prevention workshops and educational programs. 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 may make anonymous reports to the Victim Advocacy Center staff.

On-going training and support for C.O.R.E. (Campus Organizers for
Response and Education), a volunteer peer education team at FIU, is also provided. Location: HWC 213, University Park (305) 348-1215; trailer #7, North Campus, (305) 940-5813; Crisis Response Line, 24 hours (305) 348-3000.

Volunteer Action Center
The Volunteer Action Center (VAC) is the central office for community service and volunteer activities on 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 331, University Park, 348-2149.

Women's Center
The Women's Center offers various programs and services related to the intellectual, social and professional growth of women within the student body. Through collective efforts, the Center advocates for systematic changes that will improve the lives of women and men. Programming focuses on the particular needs of the female student population at the University and encourages women to learn more about themselves, other women, and the environment in which they live. Workshops, guest speakers and films are some examples of Center programming. The Center offers a Common Room for students to hold meetings, a library of books, journals and articles focusing on women, and various opportunities for internships. Location: GC 318, University Park, 348-3692.
University Advancement and Budget

The Division of University Advancement and University Budget is responsible for the operation of all University programs relating to external relations and institutional advancement, and the University Budget.

University Advancement

University Advancement is responsible for the operation of all University programs relating to external relations, and institutional advancement. Activities are centered in three departments:

Alumni Affairs

The Office of Alumni Affairs seeks to maintain contact and encourage communication with and participation in special events with the more than 55,000 FIU alumni of record. Alumni participation is stimulated through activities by the FIU Alumni Association and through programs sponsored by this office, including publications, alumni social events, collegiate marketing projects and alumni benefits.

Development

The Development Office coordinates the University’s efforts to raise funds in support of the University and its programs from alumni and other individuals, corporations, foundations, and other private sector organizations. The Office develops and implements numerous programs to raise funds annually from alumni and others through the Fund for FIU, and works closely with the Board of Trustees of the FIU Foundation and other volunteers to increase private support for the University and its students.

The Vice President for University Advancement serves as the principal University liaison to the Board of Trustees of the FIU Foundation, Inc., a group of leading South Florida business and community leaders dedicated to securing community support and private funds for the University.

University Relations

The Office of University Relations comprises four units providing professional staff and services to support the University’s public relations and advancement activities.

Public Relations plans and administers community-oriented public relations activities and projects, including those directed to the local and national Hispanic communities.

Publications produces effective and informative publications to advance the University’s mission. It provides services including design/graphics, electronic typesetting and desktop publishing, mechanicals and production supervision. In conjunction with the typesetting auxiliary, this office produces internal and external University publications, forms and letterheads, promotional collateral and advertisements.

University Communications facilitates communications to FIU’s internal audiences and alumni community, and provides specialized public relations and editorial services to the division and executive staff. The office also manages the editorial contents of Inside, the University’s quarterly publication, FIU NOW, the biweekly faculty/staff newsletter, the FIU Alumni News, and the FIU Magazine.

University Events strengthens ties between the University and community through planning and coordinating major community held on the FIU campuses. The office hosts special campus visitors and manages events including Commencement, Convocation, dedications, and recognition activities.

University Budget Planning Office

The University Budget Planning Office is responsible for the development of all operating and biennial budgets in all budget entities, legislative budget request, operating budget request and internal operating budget plan. The office is staffed by a director, a secretary, and three professional staff.
Centers and Institutes

Center for Accounting, Auditing, and Tax Studies

The Center for Accounting, Auditing, and Tax Studies (CAATS) conducts sponsored research. Major ongoing projects focus on the audit impact of emerging technology and on 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 earned 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 BA 2458, University Park, 348-2581.

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 the banking and financial institutions. The Center for Banking and Financial Institutions was established to provide additional services to banks and financial institutions located in the Southeast United States and in Latin America and the Caribbean.

Associates of the Center for Banking and Financial Institutions are a select group of highly qualified functional specialists in the areas of accounting, finance, information systems, marketing and human resources management, who are interested in the application of their functional specialties in solving contemporary organizational problems in banks and financial institutions.

The Center for Banking and Financial Institutions at FIU meets the demands of the banking and financial service sector through four major activities:

Education: The Center for Banking and Financial Institutions along with the Department of Finance, co-sponsored the Banking Certificate program. Upon completion of a four course sequence of banking and financial institution courses, students are awarded a Certificate in Banking from the College of Business Administration. The Center also supports educational opportunities for bank and financial institution employees and other individuals who wish to continue their education in the area of banking and financial institutions, through other off campus programs.

Management Development: The Center for Banking and Financial Institutions develops and conducts high quality training programs and conferences on topics that are of interest to and demanded by banks and financial institutions. The Center also offers custom in-house training programs for those institutions who desire a more focused or specialized program.

Research: The Center for Banking and Financial Institutions supports theoretical and applied research on problems and issues in the financial service sector.

Consulting: The Center for Banking and Financial Institutions serves as a consulting clearinghouse. The Center will assist banks and other financial institutions in contacting experts from FIU and nationwide to assist them in solving unique problems in their organizations.

The Center for Banking and Financial Institutions is located in BA-320, University Park, 348-2771.

Children’s Creative Learning Center

The Children’s Creative Learning Center at FIU is an Educational Research Center for Child Development.

Since its inception in 1975, this model program has become well known for providing developmentally appropriate hands-on experience for children of students, faculty, staff, alumni and the neighboring community.

The C.C.L.C. is designed to meet the needs of children between the ages of two years and six months (toilet-trained) through five years.

A creative atmosphere exists to enhance and promote involvement in activities such as: circle time, stories, art, music, action songs, finger plays, puppetry, movement, science, cooking, unstructured play, outdoor play, water play, pre-reading, pre-math, and developmental tasks along with the introduction of
educational concepts to convey awareness of the world around us. Full day sessions are available Monday through Friday year round except at both University Park and North Campus locations. EduCare/Flex Care (7:45 a.m. - 9:00 p.m.) is available at the North Campus. For more information call 348-2143.

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. With an emphasis on prevention, early intervention and major reforms in crisis and out-of-home care, the Institute has generated a series of multi-cultural, multi-generational and multi-modal initiatives. These include training and instructional design for child welfare workers in South Florida.

Research and capacity-building functions of the Institute encompass a range of family support strategies including family-support villages, refugee, immigrant and migrant service initiatives, services and systems integration, consumer-driven practice and policy, community campaigns for culturally-responsive services and missions, and refinancing strategies. The Institute also designs and evaluates improvements in “helping” technologies for all service systems supporting at-risk children, families and communities.

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 Rehabilitation 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.

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; studying black band disease of corals.

While the Center has a complete array of instrumentation for the water quality analyses necessary in the course of its research projects, time and staff constraints do not permit routine testing of water for individuals.

The DWRC does not conduct academic classes. However, qualified students often have an opportunity to work as a research assistant 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 and Design and is located in VH 326, University Park, 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 314, University Park. Its phone number is 348-3283.

Center for Educational Development
The Center for Educational Development (CED) 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 domestically; (2) increased minority group access to and achievement in educational systems; (3) acquisition of state and external resources for development of educational systems; and (4) multi-institutional collaboration in educational development projects and research.

The Center is governed and supported jointly by Florida International University, Miami Dade Community College, and the University of Miami. It is comprised of two specialized institutes: the International Institute of Educational Development and the Urban Educational Development Institute.

For more information call 348-3418, or write to the Executive Director, Center for Educational Development, College of Education, University Park Campus, Miami, Florida 33199.
Elders Institute

The Elders Institute, a continuing education unit within the Southeast Florida Center on Aging, serves the educational needs of the senior adults on 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 retired 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. Additional benefits are increased social opportunities which can lead to new friendships and meaningful relationships. The Institute also serves as a resource for community agencies and professionals in the field of gerontology. The Institute is located in ACI-383B, North Campus, 940-5910.

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.

Classes in reading, grammar, writing, and conversation are taught at five 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 Testing and Placement Center regularly administers the Test of English as a Foreign Language (TOEFL). Finally, the Center provides certification in oral English proficiency through the FIU Oral English Proficiency Exams in cooperation with English language agencies abroad.

ESL Evening and Saturday 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.

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

FAU-FIU Joint Center for Environmental and Urban Problems

Florida's environmental and urban problems derive in large part from the state's rapid growth and development. Recognizing the need to address these problems through effective growth management, the Florida Legislature established the Joint Center for Environmental and Urban Problems at Florida International University and Florida Atlantic University in 1972. In the two decades since then, most of Florida's growth management laws and policies have taken shape, and the Joint Center has been a frequent and important contributor to policy formation at the state, regional, and local levels. The Joint Center has made its contribution by taking an interdisciplinary approach to these complex and interrelated areas of study.

The Joint Center functions as an applied research and public service facility that carries out programs supportive of government agencies, educational institutions, and non-profit organizations. The Center is active in the following program areas: (1) research projects, with public and private agencies that address environmental and urban problems; (2) community service projects; (3) production, in conjunction with FIU's media services, of video documentaries concerning urban and environmental issues; (4) workshops, assemblies, conferences and lectures; and (5) publication of the Joint Center's quarterly journal, Environmental and Urban Issues.

The Joint Center maintains offices at FIU's University Park Campus, at FAU's Broward Campus at University Tower in Fort Lauderdale, and at the FAU Boca Raton campus.

The FIU office is staffed by an associate director, senior research associate, secretary, and several research assistants. University faculty specialists from the School of Design, Environmental Studies, and several other programs frequently work with Joint Center staff on specific projects.

Research and Service: Research at the Joint Center focuses on the development and implementation of public policy in the areas of growth management, natural resources management, and integrated community, urban, and regional planning. The Joint Center is committed to assisting government agencies and communities in these areas. Recent research topics have included economic development for central Miami neighborhoods; energy-efficient urban design; military environmental policy; affordable housing and community development strategies in the non-profit sector; and transportation and land use.

Research clients have included the U.S. Army Environmental Policy Institute, the Florida Department of Community Affairs, Homestead for Homestead, Homestead at Homestead, the City of Miami, and the Metro-Dade Planning Department.

Through in-house research and through collaboration with FIU faculty, the Joint Center will continue to link university resources to communities and to the region, and will focus interdisciplinary expertise on the problems of south Florida's urban, agricultural, and natural landscapes.

The Center has recently expanded its scope with international linkages to Latin America and South Africa. In 1994, The Joint Center and the FIU School of Design collaborated in the formation of the FIU Ecotourism Research Council. The Council provides a forum for faculty members to pursue multidisciplinary applied research on environmentally sensitive tourism development. The Council's initial efforts are proceeding under an agreement be-
between FIU and the Nicaraguan Ministries of Natural resources and Tourism.

Working with the South African Institute of Town and Regional Planners, the Joint Center has developed an internship program for recently graduated South African planners. The program was initiated in late 1993. The experience gained from this, and the opportunities created by the post-apartheid era, have led to a commitment to make the program permanent.

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 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.

International Institute for Housing and Building

The International Institute for Housing and Building is established by the College of Engineering and Design, to provide expertise in the design, engineering, architectural, and management aspects of construction. The Institute provides academic research, and service programs to Southeast Florida, Latin America, the Caribbean, and developing nations throughout the world.

The Institute emphasizes the following activities related to housing environment:
1. To initiate and carry out research on problems related to building planning and construction, considering especially the technology, economic, financial, and managerial aspects of the topic.
2. To generate funds from outside sources to finance theoretical and applied research activities.
3. To disseminate the results of research projects and encourage their implementation.
4. To provide technical services to private and official organizations with a special emphasis on service to the housing production industries.
5. To act as an interface between new developments in Housing Science and their application in the field of housing and planning in South Florida and to assess their relevance to the housing industry.
6. To collect documents and disseminate information on the latest advances in building science and housing.
7. To attract researchers of international stature and reputation to the University and South Florida.
8. To develop a learning environment in the area of building sciences relevant to the needs of low- and medium-income people of the world.
9. To collaborate with other research institutes, government agencies, and universities to increase the effect of its research program.
10. To organize scientific meetings, symposia conferences, seminars, and workshops at the University and elsewhere.
11. To incorporate the use of alternative energy, energy conservation, and efficient use of natural resources in the planning of large projects, and to encourage the utilization of indigenous materials and labor sources.
12. To help implement programs to alleviate the impact of various disasters on housing including the coordination of disaster preparedness activities related to housing.

An underlying concern of the Institute is to establish an interdisciplin-
nary environment in which many disciplines within the University and the community can arrive at feasible solutions to housing and building problems. It is located in VH 176, University Park, 348-3171.

The HRS/Children, and Families Professional Development Centre

The HRS/Children, and Families Professional Development Centre (PDC) at FIU is responsible for providing child welfare staff with both a knowledge base and a set of practical skills. The training builds competency in the practices, policies, and procedures that are essential to carrying out the mission of the CF program.

The PDC provides a foundation of skills and knowledge to ensure that all new staff have basic competencies; and offers specialty and in-service training to increase and develop specialized competencies for experienced staff and private child welfare service providers.

The purpose of these focused training programs is to enable staff to make better casework decisions regarding children and families, resulting in improved service outcomes for these clients.

Institute of Judaic Studies

The Institute of Judaic Studies (IJS) 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 348-3225.

Center for Labor Research and Studies

The Center for Labor Research and Studies (CLR&S) was established in 1971 to promote research, curriculum development and community service in labor relations at the University. Accredited through the University College Labor Education Association (UCLA), 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) to 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 on labor relations and the changing nature of work in Florida as well as curriculum development and community service. 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 activities have educated labor and management participants in labor relations, pension fund administration, dispute resolution, dynamics of worker participation and international labor issues.

The Center houses various projects which serve to carry out its research and training functions. Among them are individualized non-credit courses, a Union Leadership Academy Certificate Program, a Contemporary Issues Program, and various theoretical research projects. Faculty research is distributed through its various publication series as well as journals and books.

A credit certificate in Labor Studies, a Professional Certificate in Labor Studies and Labor Relations, and a Labor Studies Concentration in Liberal Studies are offered as well as conferences, workshops, and consultation and research services. The Center is located at the University Park Campus, 348-2371, fax: 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 both degree and non-degree seeking students, combines research in the social sciences and the humanities, graduate and undergraduate instruction and offers publications, and public education activities that address the full range of issues affecting hemispheric relations.

Since it was founded in 1979, LACC has become one of the country's leading programs in contemporary Latin American and Caribbean studies. Over 100 language and area studies faculty regularly offer courses on diverse topics related to the region. 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.

Several other programs and institutes are part of LACC. Two of these, the Florida Caribbean Institute (FCI) and the Florida-Mexico Institute (FMI), are programs of the Florida International Affairs Commission, created by the state legislature to improve Florida's cultural, commercial, and educational ties with strategic regions. Both FCI and FMI administer competitive scholarship programs which allow students from Mexico and the Caribbean to attend any institution in the State University System at the in-state rate.
Other LACC affiliated programs include the Cuban Research Institute, the only academic center in the United States devoted exclusively to the study of Cuba and Cuban-Americans; and the InterCultural Dance and Music Institute, which organizes regular seminars and performances by artists and scholars of the arts.

LACC regularly places students in foreign study programs and local internships. More information is available in DM 353 University Park, 348-2894.

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**Center for Management Development**

The Center for Management Development, located in the office of the Dean, College of Business Administration, was created by the Board of Regents in 1980.

**Contract Training:** Management training and executive development programs are provided in the community and on campus. Programs are created to meet the specific training needs of each client. Faculty/trainers use highly interactive, practical, and industry-specific activities aimed toward developing job-related competencies. Certificates, Continuing Education Units (C.E.U.'s), and Contact Hours may be earned.

**Certificate Programs:** Professionals who desire to advance their careers by upgrading their knowledge and skills will benefit from participating in the appropriate Certificate program. Certificates may be earned in:
- Personnel Administration
- Training & Human Resource Development
- Managing Quality Health Care Systems
- Management Skills for Physicians

**Technical Assistance and Consultation:** The Center is a clearing house for matching a variety of faculty resources to complex and specialized needs of the community. It draws on a variety of disciplines in the College of Business Administration to serve the private and public sectors.

The Center is located in BA 326A, University Park Campus, 348-4237.

**The Family Business Institute:** The Family Business Institute was created to provide an ongoing series of small, personal, in-depth seminars focusing on challenges faced by multigenerational family business owners, their family, and their non-family staff. A newsletter will augment the educational programs. The following corporate sponsors are partners in dedicating their resources toward supporting health family businesses: Arthur Andersen & Co., First Union National Bank, Bankers Trust Co. of Florida, Steel Hector & Davis, and The Equitable Suquet Musibay Agency.

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**Center for Multilingual and Multicultural Studies**

The Board of Regents established the Center for Multilingual and Multicultural Studies as a center of excellence in order to improve the quality of foreign language, bilingual education, linguistics, and multicultural programs offered in the State.

The main purpose of the Center is to develop, plan and coordinate research and training programs in the areas of foreign languages and literature, linguistics, bilingual education, multicultural approaches to the humanities in international and domestic contexts, and international studies. Its primary research programs focus on language policy, migration, and ethnicity.

The Center houses several projects which serve to carry out its research and training functions. Among these are the African-New World Studies Initiative and the documentary project: Living History: A Reflection on the Cuban Nation and Exile.

**Cuban Exile History and Archives Project:** The Cuban Exile Archives collects rare Imprints, manuscripts, audiovisuals, ephemeral artifacts, recorded oral testimonies and machine readable records illustrating and documenting the Cuban-American heritage. It seeks to disseminate them through historical research by members of the University, other area institutions, and the general public. The resulting research is published in Cuban Heritage: A Journal of History and the Humanities which appears quarterly. The preservation of the Cuban community's living testimony through the techniques of oral history is also one of the Project's main concerns. The Project encourages the donation of historically significant materials to the Cuban Exile Archives or to other appropriate repositories.

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**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. The Institute administers a multi-faceted municipal development and democratic institution-building project in South America through a grant from the United States Agency for International Development. The project's primary focus is on Chile and Paraguay. In support of this project, the Institute has developed a close working partnership with the senior management of Metropolitan Dade County by drawing on its expertise and experience in local governance issues.

The project's Paraguayan program, its most elaborate component, involves activities at the national, departmental, and municipal levels of government with the goal of strengthening that country's young democratic institutions through a variety of strategies. The Institute is very much involved in helping Paraguayan policy makers identify means to promote governmental decentralization, citizen participation, and the enhancement of local government capacity. Project staff assist high-level Paraguayan officials through resource identification and as advisors.

The Institute has provided both financial and intellectual assistance to Chilean non-governmental organizations and public officials through the funding of conferences and seminars on decentralization, privatization, and public finance. Drawing on the wide-ranging expertise of scholars and practitioners across the Western Hemisphere, the Institute successfully provides educational opportunities for the practitioners of local government in Latin America.

Institute staff have published various articles and monographs, served as resources to visiting international dignitaries to the Metropolitan Dade County area, have consulted around the world, and were active in the organization of the Summit of the Americas, held in Miami in 1994.
Institute for Public Opinion Research

The Institute for Public Opinion Research (IPOR), a research arm of the School of Journalism and Mass Communication, conducts public opinion polls from its survey research lab on the North Campus. The institute was founded in 1983 and was quickly recognized by public and private organizations throughout South Florida as a valuable survey research resource. IPOR's primary function is to provide decision-makers with timely and relatively inexpensive information on how a scientifically-selected cross-section of the public stands on various issues. Ways in which IPOR is fulfilling this function include:

1. The annual FIU/Florida Poll which is the most comprehensive public opinion survey conducted in the state. The FIU/Florida Poll asks Floridians about the important issues facing them - crime, education, transportation, health, taxes, politics, etc. - and asks many of the questions year after year, providing valuable longitudinal information not available elsewhere. The publication of the results in book form and on computer disk of the FIU/Florida Polls provides public officials, academics, businessmen, and the general public with a ready reference resource about opinion in the state. The information provided in the FIU/Florida Poll books is unique in the United States, and gives planners and decision makers in Florida an additional valuable information resource.

2. IPOR provides survey research expertise to members of the FIU community needing such expertise in conjunction with their official duties at the university. This includes assistance in the preparation of research proposals which call for survey research, provided that the survey research part of the project is funded, is conducted under subcontract by IPOR in cooperation with the director of the funded project.

3. IPOR's staff and facilities are available in support of instructional activities at the graduate and undergraduate level involving public opinion research and survey research methodology.

4. IPOR continues to seek external funding in support of its long-standing interest in the area of public-policy communication. That may, for example, include the development of an annual South Florida survey, development of a standard metropolitan area assessment instrument which would be readily available to major cities and counties in the state, or development of a standard instrument by which state and local legislators can quickly and inexpensively gauge the sentiments of their constituents on policy issues.

5. IPOR, in cooperation with the Central American Journalism Project of the SJMC, involves itself in the development of affordable and scientifically acceptable survey research methodology usable in the developing democracies of Latin America and the Caribbean.

IPOR is located in ACI, Room 266, on the North Campus. For more information call 940-5991.

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 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, 348-2917.

Small Business Development Center

The Small Business Development Center (SBDC) is a program designed to provide comprehensive small business management and technical assistance to the small business community. The Center serves as a focal point for linking resources of the federal, state, and local governments with those resources of the University and the private sector. These resources are utilized to counsel and train small businesses in resolving start-up, organizational, financial, marketing, technical, and other problems they might encounter.

The Small Business Development Center is a basic services center. It disseminates business management information, performs financial analyses and management audits, assists in market and feasibility studies and provides business management counseling and training.
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 an academic interdisciplinary certificate program in Women’s Studies, which was established to 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—a 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, nationality, race, ethnicity, class, age, and sexual identity. The program is directed toward specialists and generalists alike: It offers a plan of study for students in the various majors who wish to earn a certificate in women’s studies, and it welcomes students who wish to enroll in its courses without fulfilling the requirements for the certificate.

The center fosters faculty research in Women’s Studies through various means including 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 reentry women’s counseling, 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 commu-
nity, and everyone is welcome to visit or inquire about our services.

The center is located in DM 212, University Park, 348-2408.

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 two 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 to 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 _900_999 series (e.g., ART 2905)
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 Gabriela Yanni in the Registrar's Office at (305) 348-2389, 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.
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Assistant Director, Technical Services Phoebe Phillips

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Director, Elders Institute Diane Otis
Director, English Language Institute Luis Sanchez
Associate Director (Acting), FAU-FIU Joint Center for Environmental and Urban Problems Thomas D. Wilson
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Director, Institute for Public Opinion Research J. Arthur Heise
Director, International Institute for Housing and Building Oktay Ural
Director, Small Business Development Center Eduardo A. Gamarra
Director, Southeast Florida Center on Aging Max B. Rothman
Director, Women’s Studies Center Marilyn Hoder-Salmon

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Acting Director, Physical Plant: Nick DiClacco
Director, Purchasing: Judy Weech
Director, Training and Development: Fern Alcoff

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Assistant Vice President, University Outreach: Elaine Gordon
Director, North Campus Administration and Operations: Angelina Davis
Director, Community College Relations: Susan Lynch
Director, Academic Credit Programs: Patrick Wagner
Director of Marketing, University Outreach: Arthur Bustamante
Director, Conference Center and Conference Services: Kurt Salsburg
Director, Admissions: Carmen A. Brown
Director, Financial Aid: Ana R. Sarasti
University Registrar: Jerry Montag

Student Affairs

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Associate Vice President, North Campus: Helen Ellison
Associate Vice President, Minority Programs: E. George Simms
Associate Vice President, Student Development: Thomas A. Syracuse
Assistant to the Vice President: John A. Bonanno
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Director (Acting), Counseling Center: Patricia Telles-Irvin
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Director, Housing: James R. Wassenaar, Jr.

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Director, International Student and Scholar Services: Ana Sipin
Director, Minority Student Services, University Park: Robert Cootie
Director, Minority Student Services, North Campus: Ozzie Ritchey
Director, Student Activities: Larry Lunsford
Director, University Center, North Campus: M. Whit Hollis
Director, Health and Wellness Center: Robert Dollinger
Director, University Center, University Park: Ruth A. Hamilton
Director, University Public Safety: Harvey Gunson

University Advancement, and Budget

Vice President (Acting): Paul D. Gallagher
Associate Vice President, Development: Dale C. Webb
Assistant Vice President, University Relations: Connie Crowther
Director, Alumni Affairs: Eduardo Hondal
Director, Budget Planning: Charles L. Tinder
Director, Development Communications: Roger E. Wyman
Director, Publications: Terry Wilherell
Director, University Events: Lane Coleman
College of Arts and Sciences
College of Arts and Sciences

The College of Arts and Sciences further 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 20 departments, in addition to the School of Computer Science, and several interdisciplinary programs.

Graduate Programs

The College has academic programs leading to Master's degrees in biology, chemistry, comparative sociology, computer science, creative writing, economics, English, environmental and urban systems (offered jointly with the College of Engineering and Design), geology, history, international studies, linguistics, mathematical sciences, physics, political science, psychology, and Spanish.

The College offers academic programs leading to the Ph.D. in biology, computer science, economics, geology, history, international relations, psychology, and comparative sociology.

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 or 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 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.

Biological Sciences

L. Scott Quackenbush, Associate Professor and Chairperson
Brad Bennett, Assistant Professor
Charles Biggar, Associate Professor
Richard Campbell, Research Scientist
Chun-tan Chen, Associate Professor
Dan Childers, Assistant Professor
Wan-ling Chiu, Research Scientist
Leon A. Cuervo, Professor
George H. Dalrymple, Associate Professor
Maureen Donnelly, Assistant Professor
Kelsey Downum, Associate Professor and Graduate Program Director
Jeff Elhal, Assistant Professor
James Fourquean, Assistant Professor
Brian Fry, Associate 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, Associate Professor
David N. Kuhn, Associate Professor
David W. Lee, Professor
John Makemson, Professor
Gerald L. Mutilson, Professor
Steven F. Oberbauer, Associate Professor
Case K. Okubo, Associate Professor and Head Undergraduate Advisor
Thomas E. Pilske, Lecturer
Jennifer Richards, Professor
Laurie L. Richardson, Assistant Professor
Barbara A. Roller, Lecturer
Philip Stoddard, Assistant Professor
Martin L. Tracey, Professor
Joel Trexler, Assistant Professor
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 un-
dergraduate program or a com-
ined score (verbal and quanti-
tive) of 1000 or higher on the
Graduate Record Exam.

3. Two letters of recommenda-
tion of the student’s academic po-
tential.

4. Be accepted by a faculty
sponsor.

5. Receive approval from the De-
partmental Graduate Committee.

6. Foreign students whose native
language is not English must take
the TOEFL (Test of English as a For-
egn Language) and obtain a score
of 550 or higher.

Degree Requirements
The Master of Science in Biology
consists of 36 credits, including a the-
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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>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</td>
<td>1</td>
</tr>
<tr>
<td>BSC 5975</td>
<td>Thesis 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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<tr>
<td>Workshops and Laboratories</td>
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<td>4</td>
</tr>
<tr>
<td>BSC 6971</td>
<td>Master’s Thesis</td>
<td>6</td>
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<td>Electives</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

Foreign language competency

1. Following graduate committee
approval, students may fulfill this re-
quirement with any combination of
graduate workshops, graduate labor-
atories, and graduate techniques
(courses of transferable credits)

2. To be taken after qualifying exam
is passed.

3. These must include at least 16 cre-
bits of any 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 6000-level (excluding thes-
isis credits). Credits taken at the 4000-
level beyond six, or at a lower levels,
will not count towards 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
 towards graduation. As an alterna-
tive, students may substitute either
six credits of computer program-
ming or mathematics beyond Cal-
culus II.

Graduation Requirements
A grade of ‘C’ or higher must be
obtained in all courses with a cumula-
tive average of 3.0 or higher in the
36 credits, and a thesis must be com-
pleted and accepted after presenta-
tion 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 pro-
gram in Biology, a student must:

1. Hold a Bachelor’s degree in a
relevant discipline from an accred-
ted college or university;

2. Have a 3.0 grade point aver-
age during the last two years of
the undergraduate program or a Mas-
ter’s degree in a relevant discipline;

3. Have a combined score (ver-
bal and quantitative) of 1,000 on
the general Graduate Record Exam
(GRE).

4. Be sponsored by a Biology fac-
ulty member

5. Arrange to have three letters of
recommendation sent to the Biol-
ogy Graduate Program Director
valuating the applicant’s potential
for graduate work

6. Receive approval from the De-
partmental Graduate Committee.

7. Foreign students whose native
language is not English must take
the TOEFL (Test of English as a For-
egn Language) and obtain a score
of 550 or higher.

Degree Requirements
The Ph.D in Biology is conferred on in-
dividuals in recognition of their dem-
strated ability to master a specific
field of knowledge and to conduct
significant independent, original re-
search. A minimum of 90 credits
in graduate work beyond the bac-
calaureate are required, in-
cluding a dissertation based upon
the student’s original research. A
maximum of 36 credits may be trans-
ferred from another graduate pro-
gram with the approval of the
Advisory Committee.

Recommended Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5931</td>
<td>Thesis Proposal Seminar</td>
<td>2</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>
</tr>
<tr>
<td>Workshops and Laboratories</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BSC 7980</td>
<td>Ph.D. Dissertation</td>
<td>24</td>
</tr>
<tr>
<td>Electives</td>
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<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

Foreign Language Competency

1. Following graduate committee
approval, students may fulfill this re-
quirement with any combination of
graduate workshops, graduate labor-
atories, and graduate courses (mini-
um three separate courses).

2. No more than 36 credits may be
transferred from another graduate
program, subject to the approval of
the Graduate Committee.

3. 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 alterna-
tive, students may substitute either
six credits of computer program-
ming or mathematics beyond Cal-
culus II.

Graduation Requirements
A grade of ‘C’ or higher must be
obtained in all courses with a cumula-
tive average of 3.0 or higher in the
90 credits; demonstration of foreign
language competency, and a dis-
sertation 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 - Bio-
chemistry; BOT - Botany; BSC - Intro-
ductory Biology; MCB - Micro-
biology; OCB - Oceanography (Bi-
ological); PCB - Process Cell Biology;
ZOO - Zoology.

F - Fall Semester offerings; S - Spring
Semester offerings; SS - Summer Se-
semester offerings

BCH 5134C Workshop in Chromatog-
raphy 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 (S). 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: BCH 3033 and Lab, PCB 4524 and Lab 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 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 instructor.

BCH 6132C Workshop in Electrophoresis (1). Workshop in the application of electrophoresis to biochemical and genetic experimentation. Students may use material from their own research in the laboratory section. Prerequisite: Graduate status and permission of 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 instructor.

BCH 6507C Workshop in Radiometry and Spectrophotometry (1). Interaction of light with matter (absorption, fluorescence, light scattering) and emission (chemical bioluminescence); analysis of spectra and enzyme kinetics. Prerequisite: Graduate status.

BOT 5406 Algal Physiology (3). Physiology and metabolism of eukaryotic algae, including ecological aspects of the aquatic environment and algal roles in aquatic biogeochemical cycling. Prerequisite: BOT 4405, one year of chemistry or instructor consent. (S)

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: CHM 3211 or BCH 3033. (S)

BOT 5575 Photobiology (3). BOT 5575L Photobiology 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 instructor.

BOT 5602 The Functional Ecology of Tropical Plants (3) BOT 5602L The Functional Ecology of Tropical Plants Lab (1). The relationship of climate to soils to the distribution and function of the major plant groups of the tropical regions. Prerequisites: Two courses in botany or permission of instructor.

BOT 5605 Plant Ecology (3). In-depth study of plant ecology at three levels: individual, population, and community. Laboratory and field exercises will examine lecture topics.

BOT 5605L Plant Ecology Laboratory (1). Field and lab exercises will examine plant ecology of individuals, populations, and communities. Prerequisites: BSC 3043 or permission of instructor, Corequisite: BOT 5605.

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 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: BSC 3043 or permission of instructor.

BOT 5816 Ethnobotany (3). Review the use and management of plants by indigenous people. Discuss emerging theories in ethnomedicine, examine the role of ethnobotany in conservation and resource utilization. Prerequisites: BOT 3810, BOT 3723, ANT 3403, or permission of instructor. (F)

BOT 5816L Ethnobotany Workshop (1). Field methods in the study of plant use by traditional and modern societies. Examine botanical documentation, ethnological description and experimental design. Prerequisite: Permission of instructor.

BOT 5924 Workshop in Tropical Families (3). An introduction to important spermatophyte families, including systematics, ecology, and conservation. Includes laboratory and field experience. Prerequisite: Permission of instructor.

BOT 6275 Plant Breeding Systems (3). Ecology, evolution, genetics and development of plant breeding systems. Prerequisite: Permission of 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 instructor and graduate status.

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 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 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 standing.

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 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 5409C Biology Laboratory Instrumentation for Secondary Teachers I (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 instructor and graduate status.

BSC 5596C Environmental Instrumentation (3). Theory and techniques for measurement of environmental parameters of interest to field biologist. Prerequisite: Permission of instructor.

BSC 5606 Biological Systematics (3). Systems of nomenclature and contemporary topics in classification, including molecular evidence, numerical methods and cladistics. Prerequisite: Permission of instructor.

BSC 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: BSC 3043 or permission of instructor.

BSC 5825 Wildlife Biology (3). The study of game and non-game wildlife with emphasis on management and population regulation. Prerequisite: Permission of 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 standing.

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. Offered in spring semester. (S)

BSC 5945 Supervised Teaching in Biology (1-2). Teaching in a biological discipline, under the supervision of departmental faculty. Prerequisite: Graduate standing.


BSC 6415C 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: Consent of instructor.

BSC 6456C Microcomputer Use in Biology (1). Introduction to microcomputer operating environments, the utility of microcomputers in biology, and computer interfacing to biological instrumentation. Prerequisite: Permission of instructor.

BSC 6457 Introduction to Biological Research (3). Analysis of existing biological data and experimental design. Prerequisite: Graduate standing.

BSC 6926 Workshop in Biology (1-2). A short intensive treatment of a specialized research topic or technique. Prerequisite: Permission of instructor.

BSC 6948 Laboratory Visitation (1-2). Student visits to three laboratories to learn techniques and concepts applicable to M.S. or Ph.D. research. Prerequisite: Permission of instructor.

BSC 6971 Master's Thesis (1-12). Completion of thesis. Prerequisite: Permission of major professor.

BSC 7980 Ph.D. Dissertation (1-12). Completion of dissertation. Prerequisite: Permission of major professor.


MCB 5405 Biology of Photosynthetic Bacteria (3).

MCB 5405L Biology of Photosynthetic Bacteria Lab (1). Study of the physiology and ecology of photosynthetic bacteria, including Blue-green algae (cyanobacteria), purple and green bacteria, and Halobacteria.

MCB 5505 Virology (3) MCB 5505L Virology Lab (1). Principles and methods of study of bacterial, plant, and animal viruses. Molecular aspects of viral development, virus pathogens, and carcinogens. Prerequisites: Biochemistry, Genetics, and Organic Chemistry. (S)

MCB 6418 Bacterial Mineral Cycling (3). Energy and metabolic processes: detrital food chains; carbon, nitrogen, sulfur and trace mineral cycling; chemosynthesis; global element cycles. Prerequisite: Permission of instructor.

MCB 6445 Microbial Bioluminescence (3). Molecular mechanisms, physiology, genetics and ecology of bioluminescence in micro-organisms, particularly bacteria. Prerequisite: Permission of instructor.

MCB 6635 Marine Microbiology (3) MCB 6635L Marine Microbiology Lab (1). Physiological-ecological study of the distribution and biology of marine bacteria; diseases of marine animals; bacterial role in oceanic mineral cycling. Prerequisites: MCB 3023 L and BCH 3033 L or MCB 4404 and MCB 4404L.

MCB 6935 Advanced Topics in Microbiology (3). An intensive study of particular microbiological topics not otherwise offered in the curriculum. May be repeated for credit with dif-
different subject content. Prerequisite: Graduate standing.

OCB 5634 Marine Ecology (3)
OCB 5634L Marine Ecology Lab (1). Laboratory to accompany Marine Ecology. Prerequisite: PCB 3043. Corequisite: Marine Ecology.

OCB 5670L Techniques in Biological Oceanography (1). A laboratory course designed to acquaint the student with biological sampling techniques at sea. Shipboard experience will be required as part of the course. Prerequisites: Previous course in marine biology and permission of instructor.

PCB 5185 Workshop in Microtechnique (1). Laboratory techniques required for preparation of tissues for light microscopy/histological study. Prerequisite: Senior or graduate student status.

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: Biochemistry or Cell Physiology.

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 instructor.

PCB 5259 Topics in Developmental Biology (3). Molecular and cellular mechanisms in the development of plants and animals. Prerequisite: Senior status or permission of instructor.

PCB 5303 Limnology (3)
PCB 5303L Limnology Lab (1). Chemical and physical properties of standing and flowing freshwater systems; eco-physiology 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: PCB 3043 and MAC 3311 or permission of instructor.

PCB 5344L 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: PCB 3043 Ecology or permission of instructor.

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 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 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 and Biochemistry.

PCB 5665 Human Genetics (3)
PCB 5665L Human Genetics Lab (2). Principles and techniques in the analysis of humans and primates. Prerequisites: PCB 3513 and lab, permission of the instructor. Corequisite: PCB 5665.

PCB 5676 Evolution and Development of Sex (3). The evolutionary explanations for the evolution of sexual reproduction and models of sexual differentiation. Prerequisites: Genetics and Evolution or permission of 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 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, evolution, or permission of instructor. Corequisite: PCB 5686.

PCB 5687C Evolutionary Ecology (4). Adaptations and interactions of plants and animals in natural and disturbed habitats. Prerequisite: PCB 3043 or equivalent.

PCB 5785 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transduction. Prerequisites: PHY 3048, PHY 3049, BCH 3033 or PCB 3203.

PCB 5806 Endocrinology (3). Biochemistry, physiology and anatomy of the endocrine systems of vertebrates and invertebrates. Endocrine pathways, functions and pathways of hormones which control reproduction, growth, and other parameters. Prerequisites: CHM 3211, one physiology course. (S)

PCB 5835 Neurophysiology (3)
PCB 5835L Neurophysiology Lab (1). Comparative neurophysiology: physico-chemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequisites: Biochemistry or Cell Physiology, Calculus.

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: PCB 4703 or PCB 3703 and PCB 3203 or 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:
Course in Ecology, permission of instructor.

PCB 6175C 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 instructor.

PCB 6235 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of 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 6255 Gene Expression in Animal Development (3). Introduction to the molecular biology of animal development; DNA structure, chromatin, transcription, post-transcriptional gene regulation molecular control mechanisms in development. Prerequisite: Permission of Instructor.

PCB 6345C Quantitative Field Ecology (6). Methodology in the description and analysis of populations and communities. Prerequisites: Permission of instructor and STA 3123 or equivalent.

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 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 Instructor.

PCB 6786 Membrane Biophysics (3). The structure and function of cell membranes; ionic transport, passive electrical properties, and excitation. Prerequisite: Permission of Instructor.

PCB 6875 Trends in Neurobiology (2). Critical analyses and discussions of selected research articles of current interests. Seminar format. Prerequisite: Permission of 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 standing.

PCB 7675 Reproductive Immunology (3). Molecular and cellular interactions in early development, ontogeny, and mother and fetus. Prerequisite: Permission of instructor.

PCB 7676 Evolution and Development of Sex (3). Models of sexual differentiation and reproduction treated in an evolutionary context. Prerequisite: Permission of 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 instructor.

ZOO 5266 Biology of Crustaceans (3).

ZOO 5266L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5376 Animal Design and Movement (4). Basic biomechanical and behavioral theories of how animals feed and move. Prerequisites: BSC 1011, PHY 3053, and PHY 3054 or equivalent.

ZOO 5456 Ichthyology (3). Systematics, structure, function, ecology, and evolution of fishes. Prerequisites: BSC 1010, BSC 1011, PCB 3043. (S)

ZOO 5456L Ichthyology Lab (1). Accompanies ichthyology lecture. Prerequisite: PCB 3043. (S)

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: ZOO 3733L and ZOO 3734L or permission of 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: ZOO 4743 or permission of instructor.

ZOO 5754 Comparative Pathology (3). General mechanisms of disease and comparative evaluation of animal diseases of specific organ systems in various animals including fish, reptiles, birds, and mammals. Prerequisites: ZOO 3753 or permission of instructor.

ZOO 5754L Comparative Pathology Laboratory (1). A laboratory to complement the lecture utilizing gross specimens and histopathologic material including glass and projection slides. Prerequisites: ZOO 3753 or permission of instructor.

ZOO 6378C Experimental Approaches to Functional Morphology (4). The use of mechanical analysis, electromyography, high-speed cinematography and other experimental techniques to solve problems in functional morphology. Prerequisite: A course in Anatomy.

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 standing.
Chemistry

Ramon Lopez de la Vega, Associate Professor and Chairperson
David Becker, Assistant Professor
William Cooper, Associate Professor
Yitwei Deng, Assistant Professor
Kenneth G. Furton, Associate Professor and Graduate Coordinator
Arthur W. Herrigott, Professor and Dean
Gary G. Hoffman, Assistant Professor
Rudolf Jaife, Associate Professor
Jeffrey A. Joens, Associate Professor
Webe Kadima, Assistant Professor
Leonard S. Keller, Professor and Coordinator of Organic Chemistry Laboratories
John T. Landrum, Associate Professor
Kevin E. O'Shea, Assistant Professor
John H. Parker, Professor
J. Martin Quirke, Professor
Stephen Winkle, Associate Professor

Master of Science in Chemistry

The requirements for completion of the Master of Science degree are:

A minimum of 32 credits of coursework, 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:

1. At least 18 credits in graduate-level chemistry courses (excluding research and seminar) approved by the thesis committee in consultation with the graduate coordinator with the following guidelines:
   a. The 18 credits must include courses in at least three of the five major areas of chemistry (Analytical, Biochemistry, Inorganic, Organic, and Physical).
   b. The courses must be at the 5000 or 6000 level chemistry courses (CHM or CHS prefixes) or approved cognates (up to a maximum of six credits).
   c. The following courses cannot count toward the 18 credits: CHM 5150 - Graduate Analytical Methods; CHM 5225 - Graduate Organic Chemistry; and CHM 5425 - Graduate Physical Chemistry.
   2. Two credits of CHM 6935 - Graduate Seminar
   3. Two credits of CHM 6910L - Graduate Research
   4. Eight credits of CHM 6970 - Thesis Research Involving Independent thesis research under the direction of a faculty member in the department.

5. Two credits of CHM 6971 - Master’s Thesis
   Presentation and submission of a satisfactory research thesis to the Thesis Committee.

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

Note: Laboratories may not be taken prior to the corresponding course. Laboratories must be taken concurrently where noted. Students must register for the laboratory separately.

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, spectroanalytical techniques, chromatography, survey of new analytical methods. Prerequisite: Graduate standing or permission of 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 instructor. (S)

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 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 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. Prerequisite: 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 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 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 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 instructor.

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 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 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 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 3211, 3211L. Corequisite: PHY 4604 or CHM 5490.

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 4305 or permission of 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 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 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 instructor.

CHM 5765 Aquatic Chemistry (3). Redox chemistry, chemistry of sediments, organic biogeochemistry, chemodynamics, and fate or organic pollutants in aqueous environments. Prerequisites: CHM 3211, CHM 4130, or permission of 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 instructor.

CHM 6157 Advanced Analytical Chemistry (3). Modern analytical methods, applications, and instrumentation. Topics include spectroscopy, chromatography, electrodechemistry, optimization theory, and computerized instrumentation. Prerequisite: CHM 4130 or permission of instructor.

CHM 6281 Environmental Organic Chemistry (3). Characteristics, origins, fate and transformation of organic compounds in air, water, sediments and biota. Prerequisites: CHM 3211, CHM 3411, or permission of 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 instructor.

CHM 6340 Organic Geochemistry (3). Organic geochemistry of recent and ancient environments. Characteristics, origins, and transformation of organic matter in the geosphere, including formation of crude oil. Prerequisites: CHM 3211, CHM 3411, CHM 4130, GLY 1010, or permission of 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 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 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 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 instructor.

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 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 hr/wk per credit hour. Results to be presented as a seminar. Permission of instructor.

CHM 6935 Graduate Seminar (1). An examination of various current research topics in chemistry. Prerequisite: Graduate standing.

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 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.

CHS 5531 Forensic Analysis (3). An introduction to established chemi-
School of Computer Science

Michael Evangelist, Professor and Director
Bill Kraynek, Associate Director
Wailid Akache, Instructor
Paul C. Attie, Assistant Professor
Toby S. Berk, Professor
David Barton, Professor
John C. Comlort, Professor
Yi Deng, Assistant Professor
Timothy Downey, Instructor
Ralmund Ege, Associate Professor
Mbola Fanomezantsoa, Instructor
Dawn J. Holmes, Assistant Professor
Masoud Milanl, Associate Professor
Jainendra K. Navlakha, Professor
Cyril. U. Orji, Assistant Professor
Ana Pasztor, Professor
Alexander Pekin, Associate Professor
Norman Pestalina, Instructor
N. Prabhakaran, Associate Professor
Naphal Rishe, Professor
Orlando Saulea, Instructor
Wel Sun, Associate Professor
Mark A. Weiss, Associate Professor

The School of Computer Science offers both a Master's 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. 'B' average or better in all coursework attempted while registered as an upper-division student in the Bachelor's degree.

3. Acceptable courses in Calculus and Statistics.

4. GRE scores of at least 1650 combined on the verbal, quantitative, and analytical portions. The GRE must have been taken with 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

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<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>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5602</td>
<td>Introduction to Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CEN 5120</td>
<td>Expert Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5701</td>
<td>Advanced Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6501</td>
<td>Distributed Processing</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6400</td>
<td>Statistical Computer Performance Evaluation</td>
<td>3</td>
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<tr>
<td>COP 5621</td>
<td>Compiler Construction</td>
<td>3</td>
</tr>
<tr>
<td>COT 6421</td>
<td>Theory of Computation II</td>
<td>3</td>
</tr>
<tr>
<td>COP 6545</td>
<td>Advanced Topics in Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CDA 5312</td>
<td>Micro Processing for Software Designers</td>
<td>3</td>
</tr>
<tr>
<td>COP 6556</td>
<td>Semantics of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>MAD 5405</td>
<td>Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>MAP 6127</td>
<td>Simulation and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>COT 6936</td>
<td>Topics in Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, the student must satisfy one of the following two options:

Thesis Option

CIS 6970 Thesis 6

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 a Reading Committee. An oral defense is required before the Reading Committee.
Non-Thesis Option

Additional Coursework 6

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 coursework. This examination may not be taken more than two times, except by permission of the Graduate Committee.

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 degree in Computer Sciences, or equivalent degree in a related field as judged by the School's Graduate Committee.
2. Present 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 GRE 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.

Required Courses

All students must complete the following courses and receive a grade of 'B' or higher in each.

CDA 5312 Micro Processing for Software Designers 3
CEN 6501 Distributed Processing 3
CEN 5011 Software Engineering 3
COP 5645 Advanced Topics in Database Management 3
COP 6611 Advanced Operating Systems 3
COT 5420 Theory of Computation I 3
COT 6405 Analysis of Algorithms 3
COT 6421 Theory of Computation II 3
MAD 5405 Numerical Methods 3
STA 6807 Queueing and Statistical Models 3
COP 5621 Compiler Construction 3

In addition, all students

1. Must successfully pass a Qualifying Examination based on the student's coursework.
2. Must take at least 15 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 spend at least one academic year in full-time residence. Normally, this will be after passing the Qualifying Examination.

For additional information and for specific rules and regulations relating to the above, please write to:

Graduate Program Director
School of Computer Science
Florida International University
University Park
Miami, Florida 33199

Course Description

Definition of Prefixes

CAP-Computer Applications; CDA-Computer Design/Architecture; CIS-Computer Information Systems; CGS-Computer General Studies; COC-Computer Concepts; COP-Computer Programming; COT-Computer Theory;

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

CAP 5602 Introduction to Artificial Intelligence (3). Presents the basic concepts and applications of AI and their applications to game playing, problem solving, automated reasoning, natural language processing and expert systems. Prerequisite: COP 3530. (F)

CEN 5120 Expert Systems (3). Introduction to expert systems, knowledge representation techniques and construction of expert systems. A project such as the implementation of an expert system in a high level AI-language is required. Prerequisite: COP 3530 or permission of instructor. (S)

CIS 5990 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations.

CIS 5910 Project Research (1-6). Advanced undergraduate or master's level research for particular projects. Repeatable. Prerequisite: Permission of Department.
CIS 5931 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CEN 6400 Statistical Computer Performance Evaluation (3). An introduction of the tools for quantitative, statistical and rational design, analysis, and optimization of complex computer systems. Prerequisites: STA 6807 and COP 6611.

CIS 6612 Special Topics: Advanced Topics in Software Engineering (3). This course deals with selected topics in software engineering. Prerequisite: Permission of instructor. (S, alternate years)

CIS 6931 Special Topics: Advanced Topics in Information Processing (3). This course deals with selected special topics in information processing. Prerequisite: Permission of Instructor. (S, alternate years)

CIS 6932 Special Topics: Advanced Topics in Numerical Methods (3). This course deals with selected topics in numerical methods. Prerequisite: Permission of Instructor.

CIS 6935 Seminar in Contemporary Computer Science (3). Research Seminar in Contemporary Computer Science. Topics will vary from term to term. Prerequisite: Permission of Instructor.

CIS 6970 Thesis (1-10). Completion of all other requirements for the M.S. Degree in Computer Science.

CIS 7910 Graduate Research (1-25). Doctoral research prior to candidacy. Repeatable. Prerequisite: Permission of Department.

CIS 7980 Ph.D. Thesis (1-10). Prerequisite: Permission of Instructor.

COP 5621 Compiler Construction (3). Basic techniques of compilation; self-compilers; syntax encoding and recognition; code generation and optimization. Prerequisites: MAD 3512 and CIS 4610. (F)

COP 6611 Advanced Operating Systems (3). Topics in operating system design: concurrent scheduling, security and protection, virtualizable architectures and monitors. Prerequisite: COP 4610. (S)

COP 6545 Advanced Topics in Database Management (3). Architecture and implementation aspects of DBMS; Distributed databases; Semantic models; advanced database languages, including Prolog-like languages; Semantic aspects of databases; Database machines. Prerequisite: COP 4546. (F)

COP 6556 Semantics of Programming Languages (3). This course provides an overview of systematic and effective approaches to programming. Abstraction; formal specification techniques; program verification and; semantics of programming languages. Prerequisite: COP 5420. (F, alternate years)

COT 5420 Theory of Computation I (3). Abstract models of computation; halting problem; decidability and undecidability; recursive function theory. Prerequisite: MAD 3512. (F)

COT 6936 Topics in Algorithms (3). Advanced data structures, pattern matching algorithms, file compression, cryptography, computational geometry, numerical algorithms, combinatorial optimization algorithms and additional topics. Prerequisite: COP 3530. (F, alternate years)

COT 6405 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. (S)

COT 6421 Theory of Computation II (3). Verification of program correctness; program schemes; fixed-point theory of programs; resolution and theorem proving. Prerequisite: COP 5420. (S)

COT 6930 Special Topics: Advanced Topics in Theory (3). This course deals with selected special topics in computing theory. Prerequisite: Permission of 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 instructor. (S, alternate years)
Creative Writing

Donald Watson, Professor and Chairperson
Lester Standiford, Professor and Director, Creative Writing
Lynne Barrett, Associate Professor
John Dutresne, Assistant Professor
James W. Hall, Professor
Campbell McGrath, Assistant Professor

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, the Miami Book Fair, and the Writers on the Bay Series, which has included residencies by such writers as Carolyn Forche, Louis Simpson, John Wideman, Elmore Leonard, James Crumley, Luisa Valenzuela, Tony Hillerman, and Henry Taylor. Such major writers as 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.

Degree Requirements

Forty-eight semester hours are required in studio/academic curriculum, with a minimum in each area as follows:

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature</td>
<td>15</td>
</tr>
<tr>
<td>Writing Workshop</td>
<td>18</td>
</tr>
<tr>
<td>Form and Theory</td>
<td>3</td>
</tr>
<tr>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

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.

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 coursework.

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 coursework.

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 coursework.

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.

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 graduate 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 coursework.

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 esthetic. May be repeated. Prerequisite: Permission of instructor.
Economics

Panagis Liossatos, Professor and Chairperson
Nejat M. Anbarci, Associate Professor
Hassan Arvin-Rad, Assistant Professor
Harvey Averch, Professor, Courtesy Appointment
Allison Butler, Assistant Professor
Manuel J. Carvajal, Professor
Stan Czamanski, Visiting Professor
Irma de Alonso, Professor and Graduate Program Director
Timothy Goodspeed, Assistant Professor
Alan Gummerson, Visiting Instructor
Antonio Jorge, Professor of Political Economy
Ali Cem Karayalcin, Assistant Professor
Bruce Kelley, Assistant Professor
J. Kenneth Linper, Associate Professor
Elisabetta Magnani, Assistant Professor
Raul Moncarz, Professor
Jorge Salazar-Carrillo, Professor and Director, Center for Economic Research and Education
Mira Wilkins, Professor
Maria Willumsen, Associate Professor
Ann Witte, Professor, Courtesy Appointment

The graduate programs in Economics are designed to offer advanced training in economic analysis and provide students with an opportunity to focus their graduate studies in the areas of development economics, international economics and the economics of Latin America and the Caribbean. While these are the Department's areas of greatest emphasis, graduate coursework 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 School of 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 'B' average (3.0) or higher during the last two years of undergraduate studies, or a combined score (verbal, quantitative, and analytic) of 1,500 or higher on the three-part GRE, which every candidate must take. (If a student has taken the Graduate Record Examination before the new system was introduced and scored 1000 or higher on the combined verbal and quantitative sections, the student does not have to retake the examination.) Foreign students whose native language is not English must take the TOEFL and obtain a score of 500 or higher.

2. Receive approval of the departmental graduate committee.

3. 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 7115</td>
<td>Microeconomic Theory I</td>
</tr>
<tr>
<td>ECO 7206</td>
<td>Macroeconomic Theory I</td>
</tr>
<tr>
<td>ECO 7424</td>
<td>Econometric Methods I</td>
</tr>
</tbody>
</table>

Additional Requirements: (12-15 credits)

Students will be required to write a thesis for 6 credits (ECO 6971), or take the advanced seminar in applied economics (ECO 6939), which involves writing a research paper.

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 committee must approve courses taken outside the department.

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 at 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 requirements for admission to the doctoral program in Economics are:

1. A baccalaureate degree from an accredited university or college.

2. A minimum GPA of 3.0 from the last two years of the undergraduate education or a minimum score of 1650 on the three-part GRE (which every candidate must take). Foreign students whose native language is not English must take the TOEFL and obtain a score of 500 or higher.

3. Three letters of recommendation from persons in a position to judge the applicant's suitability for graduate study in economics.

4. Approval of the Graduate Studies Committee of the Department of Economics.

5. Approval of the following courses at the undergraduate level: Intermediate Microeconomics, Intermediate Macroeconomics, Statistics, and Calculus. Unless specifically exempted, students must take these courses as required. No graduate credit will be awarded for these courses. These courses are prerequisites for most graduate courses and students cannot take the latter unless they take the prerequisites, or are specifically exempted by the instructor of the course.

The Ph.D. program is independent of the existing master's program in Economics and students in that program must apply for admission as Ph.D. students. Certain courses taken in the master's program, however, may be transferred and used to fulfill the requirements of the Ph.D. program, with the approval of the Graduate Studies Committee.

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the re-
quired coursework and fulfill dissertation requirements.

**Coursework Requirements**

Students must complete 48 hours (16 courses) of graduate level coursework. Supervised research, independent studies, seminars, and dissertation credit do not count towards this objective.

This required minimum of 16 courses consists of eight courses in the Core, six courses in three Fields of Specialization (at least two courses per field, some fields may have special requirements), and two electives as approved by the student’s advisor who will be assigned to the student at the time of admission to the program.

**Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 7115</td>
<td>Microeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7116</td>
<td>Microeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7206</td>
<td>Macroeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7207</td>
<td>Macroeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7405</td>
<td>Mathematical Methods In Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7424</td>
<td>Econometric Methods I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7425</td>
<td>Econometric Methods II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7305</td>
<td>History of Economic Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fields of Specialization**

- Advanced Economic Theory
- Economic Development
- Economics of Human Resources
- Economics of Latin America and the Caribbean
- International Economics
- Monetary Economics
- Urban and Regional Economics

**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.

**Second Year of Graduate Study**

Students will be required to take Econometric Methods II (with research paper), History of Economic Thought, and complete coursework in two major fields of specialization. The designation major field is to indicate a chosen field in which students must pass field examinations by the end of the second year. In contrast, the term minor field designates a chosen area that does not require a field examination and the courses of which do not have to be taken by the second year. Students who fail twice any of their field examinations 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:

- Conduct research and complete a dissertation
- Continue taking courses to complete a minimum of 12 credits of Advanced Workshop and 18 credits of dissertation
- Attend Advanced Workshops by enrolling in ECO 7925 in the dissertation area and present at least one paper a year on the work in the workshop.

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 MB 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 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 instructor.

**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 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, macroeconomic foundations of macrobehavior, macroeconomic models, 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 rate 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 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 7424 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 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). To be taken every semester for research on, and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Completion of field examination requirements.


ECP 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)

ECP 6715 Macroeconomic Forecasting for Management (3). Basic 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)

ECP 7035 Cost-Benefit Analysis (3). This course covers benefit-cost analysis, cost-effectiveness analysis, benefit-risk analysis, risk-benefit 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. (S)

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. (F)

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 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. Economywide planning models; project appraisal; financial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, and ECO 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 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 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 instructor. (F)

English

Donald Watson, Professor and Chairperson
Harry T. Antrim, Professor
St. George Tucker Arnold, Associate Professor
Joan Baker, Assistant Professor
Lyne Barrett, Associate Professor
Lynn M. Berk, Professor
Giseia Casines, Associate Professor
Maneck Daruwalla, Associate Professor
Theresa DiPasquale, Assistant Professor
John Dufresne, Associate Professor
Charles Elkins, Professor
Mary Jane Elkins, Associate Professor
Peggy Endel, Associate Professor
Mary Free, Associate Professor
James Hall, Professor
Tometro Hopkins, Assistant Professor
Peter Hargital, Instructor
Bruce Harvey, Assistant Professor
Jeffrey Knapp, Instructor
Kenneth Johnson, Associate Professor
Kathleen McCannack, Associate Professor
Campbell McGrath, Assistant Professor
Asher Z. Milbauer, Associate Professor
Virginia Mueller Gathercole, Professor
Carmela Pinto McIntire, Associate Professor
Adele S. Newsom, Associate Professor
Robert Ratner, Instructor
Meri-Jane Rochelson, Associate Professor and Associate Chairperson
Richard Schwartz, Associate Professor
Ronn Silverstien, Instructor
Ellen Sprechman, Lecturer
Lester Standford, Professor
Linda Strong-Leek, Assistant Professor
Richard Sugg, Professor
James Sutton, Assistant Professor
Patricia Wallace, Assistant Professor
Butler H. Waugh, Professor
Robert Weinberger, Instructor
Barbara Weltz, Instructor
C. Kemp Williams, Associate Professor
Mehmet Yavas, Associate Professor

The English Department offers three graduate degree programs: Creative Writing, Linguistics and Literature. See the description of the programs and their graduate course offerings under Creative Writing and Linguistics.

Below is a list of graduate courses that are in addition to the Creative
Writing and Linguistics courses offered by the English Department.

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. Prerequisite: Permission of instructor.

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 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 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 esthetic. May be repeated. Prerequisite: Permission of instructor.

ENG 5907 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

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 post-structuralist 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 papers, supervised classroom discussion and teaching. Course does not meet certification requirements. Prerequisite: Permission of instructor.

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. Prerequisite: Permission of instructor.

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.

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 graduate program in English and by permission of the supervising faculty.
Geology
Florentin Maurrasse, Professor and Chairperson
Bradford Clement, Associate Professor
Charles Connor, Research Associate
Grenville Draper, Professor
David Genereux, Assistant Professor
Rosemary Hickey-Vargas, Associate Professor
Martha Gamper-Longoria, Research Associate
Michael Gross, Assistant Professor
Jose Longoria, Professor
Andrew MacFarlane, Assistant Professor
Claudio Owen, Lecturer
Edward Robinson, Research Associate
Gautam Sen, Professor
Dean Whitman, Assistant 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, 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 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 (ARL/SEM-G), inductively coupled plasma emission spectrometer (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 a van for transportation to local field sites. The department has facilities for micropaleontological 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 Drinking Water Research Center in the College of Engineering and Design.

Master of Science in Geology
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 Sciences, 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 other than 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. Satisfactorily meet the University's general requirements for admission to graduate programs.

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.

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 waives of tuition. Applicants interested in an assistantship should indicate this on the FIU Graduate Application form. In order to be considered for an assistantship the application should be submitted by February 15 for 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.

The Master of Science is conferred based on satisfactory completion of required coursework, mastery of a subdiscipline of geology, and the ability to conduct independent research resulting in a Master's Thesis.

Course Requirements: A minimum of 36 credits including:

- GLY 5931/GLY 6932 Graduate Seminars 2
- GLY 5286 Research Instrumentation and Techniques in Geology 4
- Courses in field of specialization 16
- GLY 6971 Thesis 6
- Electives 8

Courses in the field of specialization and electives are chosen by the student in consultation with an advisor. All such courses are se-
Graduate Requirements:
1. A minimum GPA of 3.0 in all course work required for the 90 credits toward the Doctor of Philosophy degree.
2. Satisfactory preparation of a dissertation proposal and satisfactory performance on a qualifying examination covering general geologic skills and mastery of the field of specialization.
3. Fulfillment of the foreign language proficiency requirement.
4. Completion and successful defense of a doctoral dissertation presenting original research of publishable quantity and quality.

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 seismology 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 US 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.

Palaeobiology
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, microfossils, applied to several aspects of the paleobiology of particular fossil groups, including biodiversity, paleocology, response to global climatic changes 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 Meso-America. 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.

Graduation Requirements
1. A minimum GPA of 3.0 in all course work required for the master’s degree.
2. Satisfactory performance on qualifying examinations on general geologic skills and field of specialization. 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.
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

EVES-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 instructor. Corequisite: 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. Prerequisite: Permission of instructor. Corequisite: GLY 5021. (F.S.SS)

GLY 5158 Florida Geology (4). Detailed lithostratigraphic and biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisite: GLY 5695 or permission of instructor. (S in alternate years.)

GLY 5246 Geochemistry (3). GLY 5246L Geochemistry Lab (1). Origin of chemical elements and principles affecting their distribution in the solid system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry. (F in alternate years)

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 applications of results to research. Prerequisites: CHM 1045, CHM 1046 or permission of the instructor. (S or SS)

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 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 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 4565 or permission of instructor. (F)

GLY 5322 Igneous Petrology and Geochemistry (3). Introduction to igneous petrology and geochemistry in laboratory and discussion format. Prerequisite: Permission of 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). 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 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetic aspects, geochemistry, paleontology, mineralogy, and microfacies. Emphasizes microscopic 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 in natural rock deformation. Prerequisite: GLY 4400, MAC 3413, or permission of instructor. Corequisite: GLY 5408L. (S)


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 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 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 in instrument design. Prerequisite: GLY 5457 or permission of 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 instructor. (F)

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Survey of the stratigraphy of biostratigraphic type-sections described in the Caribbean area. Deep-sea stratigraphy from both piston-cores and Deep-Sea Drilling Project samples. Emphasis is placed on planktonic foraminifera and radiolaria species used as index species in the equatorial-tropical biozonation typified in Cretaceous and Cenozoic Caribbean sediments. Paleobiogeochemical and paleoecological considerations. Considerable time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GLY 4650 or permission of instructor. (S)

GLY 5785 Caribbean Shallow-Marine Environments (3). Four-week field study of multiple tropical environments as illustrated in the Caribbean. Physico-chemical processes in nearshore arenaceous, argillaceous and calcareous environments. Coral reef morphology, ecology and distribution patterns. Dynamical processes acting on nearshore environments, and their effects on reef growth and distribution. Reef bioerosion. Coastal evolution in response to natural processes. On-site study of some similar emerged environments in the Caribbean islands. Economic importance of tropical shallow-marine environments in world fuel resources. Course includes extensive field work both on land and underwater, and an individual research project. Qualifications. Open to advanced undergraduate and graduate students in the earth and biological sciences or cognate fields. (S-S)

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 lithic package. Prerequisite: Permission of instructor. (S-S)

GLY 5808 Mining Geology (3). Application of the theoretical models of ore formation to exploration and the use of geochemical and geophysical techniques in the search for ore deposits. Prerequisites: GLY 3200 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 3200, CHM 1045, CHM 1046. (S)

GLY 5826 Hydrogeologic Modeling (3). Introduction to the techniques used in modeling groundwater flow and solute transport in geologic systems and their application in regional studies. Prerequisites: GLY 5827, MAP 3302, or permission of instructor. (F-S-S)

GLY 5827 Hydrogeology (3). Recharge and discharge of groundwater, geologic controls on groundwater occurrence, movement and water chemistry. Prerequisite: Geology 5808, Chemistry 5827. (F)

GLY 5827L Hydrogeology Lab (1). Recharge and discharge of groundwater, geologic controls on groundwater occurrence, movement, and water chemistry. Prerequisites: GLY 5827 or Corequisite: GLY 5827L. (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 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 instructor. (F-S-S)

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 instructor. (S-S)

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 instructor. Corequisite: GLY 6247L. (F)

GLY 6247L Trace Element and Isotope Geochemistry Lab (1). Analysis of trace elements in rocks and minerals; use of trace element and isotope data in solving geologic problems. Prerequisite: GLY 5246 or permission of instructor. (F)

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 instructor. Corequisite: GLY 6328L. (S)

GLY 6328L Advanced Igneous Petrology Lab (1). Identification of rocks using microscopic and microprobe techniques. Prerequisite: Permission of 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, geothermometry, geobarometry. Origin and interpretation of zoning in metamorphic minerals. Prerequisites: GLY 5335 or permission of instructor. (F)

GLY 6345 Sedimentary Petrography (3). Comparative study and fundamental observations of sedimentary rocks in hand specimens and under the petrographic microscope; their classification, theoretical and practical implications. Prerequisites: GLY 4555 or permission of instructor. (F)

GLY 6345L Sedimentary Petrography Laboratory (1). Laboratory studies of sedimentary rocks in thin section. Prerequisites: GLY 4555 or permission of the instructor. Corequisite: GLY 6345. (F)

GLY 6353 Microlites Analysis (3)
GLY 6353L Microlites Analysis Laboratory (1). Identification and interpretation of the fossil and minera-
logical 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 instructor. (S)

GLY 6392 Topics in Igneous Petrology and Geochemistry (3). Research seminar in contemporary petrology and geochemistry. Selection of topics presented by students. Prerequisites: GLY 5322 or permission of instructor. (F.S)

GLY 6417 Caribbean Structural Geology and Tectonics (4). Students will be assigned areas and/or topics to make a presentation on. These will be introduced and supplemented by lecture material. Prerequisite: GLY 5408. (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 4460, GLY 5425 and MAP 3302 or permission of 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 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 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 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 3200 or permission of 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. Corequisite: GLY 6468 or permission of instructor. Corequisite: GLY 6468L. (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 recent 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 instructor. (F in alternate years)

GLY 6627 Stratigraphic Micropaleontology: Radiolarians (3). Nomenclature, taxonomy and biostratigraphy of Cretaceous and Cenozoic radiolarians. Studies of stratigraphically important taxa using Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of 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 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 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 instructor. (S in alternate years)

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 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, SS)

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-corers, 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 instructor. (F in alternate years)

**OGC 6280 Marine Sedimentary Petrology (3).** 
**OGC 6280L Marine Sedimentary Petrology Lab (1).** Analysis of the genesis, distribution pattern, physical and chemical properties of marine sedimentary facies, with emphasis on deep-sea sediments. Topics include deep-sea diagenetic and lithification processes, their geochemical relationship in time and space. Prerequisite: GLY 4555 or permission of instructor. (S in alternate years)

**OGC 6664 Paleoceanography (3).** Mesozoic/Cenozoic development of the major ocean basins, their circulation and sedimentation history. Use of micropaleontologic and stable isotopic techniques in paleoceanographic analysis. Prerequisite: GLY 4730 or permission of instructor. (F in alternate years)

**History**

Mark D. Szuchman, Professor and Chairperson
Daniel A. Cohen, Associate Professor
N. David Cook, Professor
Alison Isenberg, Assistant Professor
Sherry Johnson, Assistant Professor
Alan Kahan, Assistant Professor
Howard Kaminsky, Professor Emeritus
Eric J. Leed, Professor
Alex Lichtenstein, Assistant Professor
Felice Lifshitz, Assistant Professor
Joseph F. Patrouch, Assistant Professor
Brian Peterson, Associate Professor
Joyce S. Peterson, Associate Professor and Dean
Darden Asbury Pyron, Professor
Erica Rappaport, Assistant Professor
Howard B. Rock, Professor
Warren T. Treadgaid, Professor
Victor M. Uribe, Assistant Professor

**Master of Arts in History**

The Department of History offers the M.A. degree, with concentration in one of three culture areas: United States, Europe, and Latin America. Students will chose 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 coursework in History 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 coursework must be taken at FIU.

2. A minimum of 24 semester-hours of coursework.

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 toward the degree. The Latin American concentration requires proficiency in Spanish or Portuguese; the European concentration in Spanish, French or German; the United
States concentration in any of the above.

5. All students are required to take HIS 6059 (Historical Methods).

6. All students are required to take a Historiography course to be offered in alternate semesters with Historical Methods.

7. 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) are permitted.
   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.

8. Core Area. Students will select one core area for concentration in United States History, European History, or Latin American History, in consultation with the Graduate Advisor. Twelve semester-hours of course work will be taken within the core area.

9. 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.

10. Students will register for up to six semester-hours of HIS 6970 (Thesis Research).

11. 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 Supervisory Committee, substituting for one member from the Department of History.

12. The degree candidate will prepare the thesis in accordance to 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 total 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.

Three semester hours in Historiography is required of all students.

**Core Courses**

The following courses count for both the Thesis and the Report options:

- AMH 5905 Readings in American History
- AMH 6915 Research in American History
- AMH 5935 Topics in American History
- EUH 5905 Readings in European History
- EUH 6915 Research in European History
- EUH 5935 Topics in European History
- LAH 5905 Readings in Latin American History
- LAH 6915 Research in Latin American History
- LAH 5935 Topics in Latin American History
- HIS 5289 Comparative History
- HIS 5930 Special Topics
- HIS 5908 Independent Study
- HIS 5910 Advanced Research Seminar

Consultation with the Graduate Advisor is required before registering for the following courses:

HIS 6059 Historical Methods
HIS 6970 Thesis Research
HIS 6971 Master's Thesis

**Doctor of Philosophy in History**

The doctoral program in History offers students opportunities to concentrate on the areas of Latin America, 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, 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.

**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 to 12 credits will be taken as a common core consisting of: historiography and/or 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 Amer-
ica, or Europe. An additional 12 credits are required in geographical/topical areas outside the cultural 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. 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>Course Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Core</td>
<td>9</td>
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<tr>
<td>Culture Area Concentration</td>
<td>18</td>
</tr>
<tr>
<td>Out-of-Area Distribution</td>
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</tr>
<tr>
<td>Dissertation</td>
<td>24</td>
</tr>
<tr>
<td>Total</td>
<td>63</td>
</tr>
</tbody>
</table>

Common Core Courses: (9)
- Historiography 1
- Historical Methods 1
- Advanced Readings in Atlantic Civilization
- Research in Atlantic Civilization

Culture Area Concentration

Courses: (18 credits minimum from either AMH, EUH, or LAH core below).
- 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

General field concentration: (18 credits from either 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 total 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 coursework 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. 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.

Course Descriptions

Definition of Prefixes

AMH-American History; EUH-European History; HIS-General; LAH-Latin American History; WOH-World History.

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 professors. 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 schedules.) 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. 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.

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 professors. 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 topic 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 (3). The students will work under the close supervision of a regular member of the faculty in a mentorial 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 students during their first term of studies in 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, 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 6971 Master’s Thesis (3). The course is for students preparing their theses. Prerequisite: Successful completion of all graduate requirements and electives.


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 professors. 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 schedules.) 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. 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

Ralph S. Clen, Professor and Chairperson
Ken H. Goddoo, Associate Professor
Thomas A. Breslin, Associate Professor
John F. Clark, Assistant Professor
Emily Capeland, Assistant Professor
Peter R. Crummet, Assistant Professor
Damarion J. Fernandez, Associate Professor and Director of Graduate Studies
Dean L. Hansen, Assistant Professor
Farokh Jhabvala, Professor
Antonio Jorge, Professor
Paul Kowert, Assistant Professor
Charles G. Macdonald, Professor
Mohammad Mesbahi, Associate Professor
Rod Neumann, Assistant Professor
Nicholas G. Onuf, Professor
Elisabeth Prugl, Assistant Professor
Susan E. Waltz, Associate Professor
Gregory B. Wolfe, Professor

Florida International University's Ph.D. program in International Relations offers a unique approach to the study of continuity and change in global affairs from a variety of disciplinary perspectives. It provides students with a solid theoretical foundation while allowing individual latitude for rigorous research in a wide range of world problems. Our multidisciplinary approach encourages critical analysis of issues from diverse points of view. Doctoral students can look forward to working closely with a dynamic faculty in an expanding program of growing international reputation.

Admission Requirements

A Bachelor's or Master's degree from an accredited institution of higher education.

Students should meet the following criteria: a minimum of 3.2 GPA (for students holding a B.A.) and a 3.5 (for students holding a M.A.) and a combined (verbal and quantitative) score of 1100 in the GRE. For students whose native language is not English a minimum score of 500 in the TOEFL is required.

Students must complete the admissions process before their applications are considered by the Admissions Committee. A complete file includes: 1. Admissions application (and fee); 2. Official transcripts from all institutions attended; 3. A two page statement of intent; 4. Three recommendations (in forms provided by the department), and 5. GRE score. The admissions form, fee, transcripts and GRE score should be submitted to the Admissions Office of the University. The other material should be sent directly to the Department.

Deadline: February 15 (for students interested in being considered for assistantships) and April 15. Applications will be reviewed only in the Spring term for Fall admission.

Assistantships, Fellowships, and Financial Aid

The Department awards a number of assistantships which cover most of the tuition costs and carry a stipend (for 20 hours of research or teaching). Assistantships are renewable based on satisfactory academic progress. Students interested in the Caribbean may qualify, and are encouraged to apply, for the Mellon Foundation Fellowship sponsored by FIU's Latin American and Caribbean Center. In addition, all students can apply for financial aid through the university's office of Financial Aid.

Advising

All first year students will be advised initially by the Director of the Ph.D. program. Prior graduate academic work will be reviewed by the Department's Graduate Committee. The Committee will decide issues of transfer of credits and additional preparatory work required. During the first year students will choose an advisor based on the student's and faculty's research interests.

The Advisory Committee has the option to discuss issues of academic progress with particular students who are not meeting the program's expectations.

Degree Requirements

The Ph.D. requires 90 credit hours of work. The 90 hours include:

a. Core Courses (required of all students): (18 credits)
   - International Relations Theory I
   - International Relations Theory II
   - Dynamics of International Relations in the Twentieth Century
   - International Political Economy
   - Research Seminar I (Methodology)
   - Research Seminar II (Epistemology and Research Design)

b. Two functional fields: (21 credits)
   - A major (12 credits) and a minor (9 credits) field. Students choose their two fields of concentration from the three the Department offers: Development Studies, Foreign Policy and Security Studies, and international institutions and structures.
   - c. Electives, Independent Studies, Directed Readings: 27 credits
   - d. Dissertation: 24 credits

Transfer of Prior Graduate Credits

The Graduate Advisory Committee will decide on transfer of credits on a case by case basis upon review of the documentation required (transcripts, syllabi, papers). The maximum number of credits that can be transferred is 36.

Comprehensive Exams

After satisfactory completion of coursework, all students will take comprehensive exams before starting work on the dissertation; that is, before being admitted to candidacy. The comprehensive exams will cover core courses and functional fields.

Language Requirement

All students must pass a foreign language exam to assess language competency.

Dissertation

After passing the comprehensive exams, students are admitted to candidacy and start work on the dissertation. At this point students enroll for dissertation credits under the supervision of their dissertation advisor.

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: GEO 3000 or permission of instructor. (S)

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 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 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 their legal status, rule-making capacities and role in dispute settlement and maintenance of peace. (S)

INR 5607 International Relations and Development (3). An analysis and conceptualization of the process of development as it takes place in the international context. Special attention given to the role of international organizations in promoting development and the manner in which differences in developmental levels conditions international relations. (S)

INR 5906 Independent Study (VAR). Directed independent research. Requires prior approval by instructor. (F.S.SS)

INR 5935 Topics in International Relations (3). Varies according to the instructor. (F.S.SS)

INR 6008 Colloquium in International Studies (3). A systemic and International Relations theory supplemented with a consideration of legal, institutional and developmental issues. Prerequisite for MIB students: INR 6003 (World Politics). (S)

INR 6056 Environment and Development (3). Examines the relationship of development and the environment from a social theory perspective. Emphasizes 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 6604 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, motivational, and bureaucratic decision theories; leadership; and public opinion. (F)

INR 6608 International Relations Theory II (3). Surveys contemporary theories of International Relations, including neo-realism, theories of cooperation among states, approaches to international political economy, and critical theories. (S)

INR 6609 Dynamics of International Relations in the 20th Century (3). Surveys the 20th century's large events and important tendencies decade by decade, as registered by intellectual and policy elites at the time. (S)

INR 6706 Political Economy of International Relations (3). Examines contemporary theoretical and policy debates in the area of international political economy. Reviews key concepts, theories and approaches used in the study of IPE. Prerequisites: INR Theory I or permission of instructor. (F)

INR 6975 Thesis (1-6). Registration for students working on their thesis. Prerequisites: All other coursework for the Master's in International Studies. (F.S.SS)
International Studies

Damian Fernandez, Director, International Studies

Participating Departments:
Raul Manzar, Chairperson, Economics
Mark Szuchman, Chairperson, History
Ralph Clem, Chairperson, International Relations
Mary Volcansek, Chairperson, Political Science
Guillermo Grenier, Chairperson, Sociology/Anthropology

Master of Arts in International Studies

The Master's program in International Studies is an interdisciplinary program designed to prepare students for careers in government, the private sector, or international agencies. The program focuses on the broad issue of socio-economic development. Students may specialize in the area of international relations and development, social change and development, development economics, or Latin America and Caribbean studies. The interdisciplinary character of the program ensures that the subject matter is treated as a whole. Scholarships and assistantships are available.

Admission Requirements

A 3.0 GPA in upper-level work from an accredited institution and a combined score of 1000 on the Graduate Record Examination. Foreign applicants must be eligible for further study in their own country and must demonstrate proficiency in the English language.

Degree Requirements

The Master of Arts in International Studies requires a minimum of 36 semester hours of course work at the graduate level. Students may also have to satisfy prerequisites at the undergraduate level for some courses in the program. Such courses will not be counted toward the 36 hour minimum requirement. (A maximum of six semester hours of graduate coursework may be transferred from other institutions of higher education subject to the approval of the Interdepartmental Advisory Committee).

Core Courses: (15)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CPO 5035</td>
<td>Politics of Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS 5025</td>
<td>Economic Problems of Emerging Nations</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>
<td>3</td>
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<tr>
<td>SYP 5447</td>
<td>Sociology of International Development</td>
<td>3</td>
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</table>

Electives: 15

A minimum of five graduate level courses chosen from the departments of Economics, History, International Relations, Political Science, and Sociology/Anthropology. Elective courses may also be taken in other fields with the approval of the Director.

Thesis or Comprehensive Exams (6)

The thesis option will normally be undertaken after completion of a major portion of the coursework and the approval of a thesis proposal. The thesis must demonstrate the ability to organize existing knowledge, synthesizing the available information from more than one discipline, and focusing that knowledge to illustrate a problem, policy, or theory in International Studies. Students who do not pursue the thesis option must take six additional credits (for a total of 36) and a comprehensive exam.

Language Requirement

Prior to graduation, all students must demonstrate competency in the use of a modern foreign language. Language courses cannot count for credit in the program.

Linguistics

Mehmet Yavas, Associate Professor, English and Director
Kemp Williams, Associate Professor, English
Lynn M. Berk, Professor, English
Isabel Castellanos, Professor, Modern Languages
Tomofro Hopkins, Assistant Professor, English
John B. Jensen, Professor, Modern Languages
Peter A. Machonis, Associate Professor, Modern Languages
Virginia Mueller Gathercole, Professor, English
Ana Roca, Associate Professor, Modern Languages

Master of Arts in Linguistics

Admission Requirements

Applicants must meet the University's graduate general admissions requirements; a GRE score of 1000 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 in required courses, the remainder in electives. Besides maintaining an overall 3.0 average in all courses, students must also obtain a minimum of a B in each of the required courses. (A 'B-' is not acceptable in these courses) and a minimum of a 'C' in each elective course. (A 'C-' is not acceptable). Students may choose to specialize in either the General or the Applied Linguistics Track, with their coursework distributed as follows:

Required Courses (All Students): (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5018</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5206</td>
<td>Phonetics</td>
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<tr>
<td>LIN 6323</td>
<td>General Phonology</td>
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<tr>
<td>LIN 6610</td>
<td>Syntax I</td>
<td>3</td>
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<tr>
<td>LIN 6805</td>
<td>Semantics</td>
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General Linguistics Track

Required Courses: (6)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LIN 5146</td>
<td>Historical and Comparative Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6520</td>
<td>Syntax II</td>
<td>3</td>
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</tbody>
</table>

The remaining hours must be chosen from any graduate course offer-
ings with an LIN prefix, in consultation with an advisor.

**Applied Linguistics Track**

**Required Courses:** (6)
- LIN 5501 English Syntax 3
- LIN 5748 Survey of Applied Linguistics 3

The remaining hours must be selected from the following graduate offerings:
- Second Language Acquisition
- Speech Errors and Linguistic Knowledge
- Language Contact
- Language Acquisition
- Sociolinguistics
- Dialectology
- Studies in Bilingualism
- Pragmatics
- Discourse Analysis
- Contrastive Phonology
- Contrastive Syntax
- Acoustic Phonetics
- History of a Language
- Teaching Composition
- Special Methods of TESOL
- Special Topics (when designated)
- Seminar (when designated)

Also see the departments of English, Modern Language, and Urban, Multicultural, and International Education for course descriptions.

**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-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

**LIN 5017 Cognitive Linguistics (3)**

Explores the nature of human reason and categorization as revealed by language. Examines the role of metaphor, intuition, and bodily experience in human thought processes. Prerequisite: LIN 3010, LIN 3013, 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. Prerequisites: LIN 3013 or LIN 5018.

**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.

**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 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 5431 General Morphology and Syntax (3)**

The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. The student will study recent developments in linguistics that bear on language-universal and language-specific aspects of morphology and syntax. Prerequisite: LIN 3010, LIN 3013 or LIN 5018 or the equivalent.

**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, atlases, 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 languages. 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 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 General 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 re-taken for credit when content changes. (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 in sentences will be considered. Recent debate and theoretical aspects, including those touching on the nature of word meaning, presuppositional-assertional grammar, and Speech-Act theory, will be read and discussed. Prerequisite: Introductory course in Linguistics or permission of 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 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.
## Mathematics

**Core Courses**

The student must choose three courses from each of the following lists:

**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
- MAS 5312 Galois Theory 3
- MHF 5107 Graduate Set Theory 3
- MHF 5307 Graduate Mathematical Logic 3
- MTG 5326 Introduction to Algebraic Topology 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 coursework 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 coursework in Engineering, Physics of 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 coursework 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

- MAA: Mathematics, Analysis
- MAD: Mathematics, Discrete
- MAP: Mathematics, Applied

### 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, uniform and entire functions, infinite products, harmonic functions and functions of higher order, elliptic functions. Prerequisites: MAA 4211 and MAA 4402.

### MAA 5616 Introduction to Real Analysis (3)

Lebesgue measure and integral with applications to integral transforms. Prerequisites: MAS 3105, MAA 4211, MAA 4401 or MAA 4212.

### MAD 5405 Numerical Methods (3)

Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and non-linear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAA 3105 and MAP 3302.

### 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
Graduate Catalog

points, autonomous systems, Laplace transform, special topics. Prerequisites: MAA 3200, MAA 4402 and MAS 3105.

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 3302 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 instructor.

MAT 5907 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigations.

MAT 5970 Master's Research (1-6). Research toward preparation of master's project. Prerequisite: Permission of graduate committee.

MHF 5107 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 instructor.

MHF 5306 Graduate Mathematical Logic (3). First order languages, construction of models from constants, advanced construction of models, nonstandard models, recursion theory, RE sets, Turing degrees, oracle construction. Prerequisites: MHF 4302 or permission of instructor.

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 foundations 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 3513.

STA 6807 Queuing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of instructor, MAC 3312 and either STA 3033 or STA 3321.

Modern Languages

Maida Watson Espener, Professor and Chairperson
Aurello Baldor, Instructor
Pascale Becel, Assistant Professor
Jean Robert Cadley, Assistant Professor
Isabel Castellanos, Professor
Ricardo Castells, Assistant Professor
Rodolfo Cortina, Professor
James O. Crosby, Professor Emeritus
Leonel A. de la Cuesta, Associate Professor
Yvonne Guers-Villate, Professor Emeritus
Irmenia Hawkins, Instructor, (North Campus)
John B. Jensen, Professor
Danielle Johnson-Cousin, Associate Professor
Elena de Jongh, Associate Professor
Santiago Juan-Navarro, Assistant Professor
Peter A. Machonls, Associate Professor
Ramon Mendoza, Professor (North Campus)
Marlan Montero-Demos, Assistant Professor
Ana Roca, Associate Professor
Reinaldo Sanchez, Professor
Andree Stayman, Instructor
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 university or college. 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.

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;

6. Receive approval of the departmental graduate committee.

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

SPW 5806 Methods of Literary Research (must be taken in the first year of study) 3
SPN 5705 The Structure of Spanish 3
One course in peninsular Spanish literature of the Golden Age 1 3
One course in either Medieval Spanish literature or Peninsular Spanish literature, 19th or 20th centuries 2 3
Two courses in Spanish American Literature 3 3

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 Latin 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 a Comprehensive Written Examination, based on course work and on the Department’s Graduate Reading List (the exam must be passed with a minimum grade of ‘B’; it may be taken no more than twice).

1. One of the following courses: SPW 5405, 5707, 5066, 5425, 5426, 5428. Corequisite: SPW 5806.
2. One of the following: SPW 5277, 5346, 5556. Corequisite: SPW 5806.
3. Two of the following: SPW 5286, 5358, 5359, 5436, 5525, 5576, 5715, 5735. Corequisite: SPW 5806.

Course Descriptions

Definition of Prefixes

FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-foreign Languages, Comparative Literature; FRE-French Languages; FRT-French Translation; FRL-French Literature (Writings); GER-German Language; LIN-Linguistics; PDR-Portuguese Language; SPR-Spanish Language; SPI-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.

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 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 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by students and teacher.

FOW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required.)

FRE 5060 Language for Reading Knowledge I (3). Designed primarily for graduate students who wish to attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.

FRE 5061 Language for Reading Knowledge II (3). Emphasis on translation of materials from the student’s field of specialization. Prerequisite: FRE 5060 or equivalent.

FRE 5505 La Francophonie (3). Analysis of the different varieties of French spoken outside of France. Includes Quebec French, African French, and French Creoles. Also examines the political alliance of Francophone countries. Credit will not be given for both FRE 4503 and FRE 5505. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

FRE 5735 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of Department required.)

FRE 5755 Old French Language (3). Introduction to the phonology, morphology, and syntax of the Old French language. Reading and
analysis of the 12th and 13th century texts in their original. Comparison of major medieval dialects. Prerequisite: FRE 4840 or FRE 5845.

FRE 5845 History of the Language I (3). The internal and external history of the French language from Latin to Old French. Examination of some of the first texts written in French. Credit will not be given for both FRE 4840 and FRE 5845. Prerequisite: FRE 3780.

FRE 5846 History of the Language II (3). External and internal history of the French language from 1400 to the present. Examination of first dictionaries and grammars of French. Survey of recent linguistic legislation concerning the French language. Credit will not be given for both FRE 4841 and FRE 5846.

FRE 5855 Structure of Modern French (3). Systematic study of the phonology, morphology, syntax, and lexicon of Modern French. Taught in English. Credit will not be given for both FRE 4855 and FRE 5856. 

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 developing 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; effective 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, LIN 5018 or the equivalent.

LIN 6571 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversationa interactions and written texts. Prerequisite: LIN 3010, LIN 3013, LIN 5018 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 LIN 5018 or the equivalent.

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 LIN 5018 or the equivalent.

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 LIN 5018 or the equivalent.

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 LIN 5018 or the equivalent.

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 LIN 5018 or the equivalent.

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 LIN 5018.

SPN 5908 Independent Study (1-3). Project, field experience, readings, or research.

SPN 6505 Spanish Culture (3). Selected development in language, literature, art, music, film, and the social institutions of Spain. Prerequisites: Graduate standing and permission of 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 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.

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 instructor.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multi-language 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 sarrionto, to 1950. The novels and authors studied are representative of “costumbrismo”, “romantico”, “naturalismo”, “modernismo”, and “criollismo”.

SPW 5277 Twentieth Century Spanish Novel, from 1956 to the Present (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, Urrutia, Deliberes, 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 Memorias. 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: 5000 or 5500 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 Xilith and XIVth Centuries, and the literature of Juan II’s court. Prerequisites: Graduate standing and permission of 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 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; wordprocessing literacy; permission of 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 5515 Advanced Studies in Hispanic Folklore (3). Studies the oral literary and linguistic tradition of the Hispanic world. Prerequisites: Graduate standing and permission of instructor.

SPW 5556 Spanish Realism and Naturalism (3). Readings in Spanish XIXth Century Novel of Realism and Naturalism including Alarcon, Perez Gal- dos, Pardo Bazan, Clarin and Blasco Ibanez. Prerequisites: Graduate standing and permission of 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 5566 Cervantes (3). A comprehensive introduction to the masterpieces of Cervantes as the creator of the modern novel, and to critical theories about his art.

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 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: 4,000 or 5,000 level course in Culture of Literature.

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, Lafontet, Martin Gaite. Prerequisites: Graduate standing or permission of instructor.

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 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 6936 Graduate Seminar (3). Topic and approach to be determined by students and instructor. Prerequisite: Approval of the Department.

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Physics

Kenneth A. Hardy, Professor and Chairperson
Richard A. Bone, Professor
Yeslim Darici, Associate Professor
Rudolf Fleigb, Associate Professor
Bernard Gerstman, Associate Professor
Jesus Marcano, Assistant Professor
Oren Maxwell, Associate Professor
Stephan L. Mintz, Professor
John W. Sheldon, Professor
Nongjian Tao, Assistant Professor
Walter van Hamme, Associate Professor
Xuewen Wang, Assistant Professor
Yifu Zhu, Assistant Professor

Master of Science in Physics

The Master of Science in Physics is a 45 semester hour program consisting of coursework at the 5000 and 6000 level and research with one of the departmental research groups culminating in a master’s thesis. Students entering the program must have a bachelor’s degree or equivalent coursework in Physics.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHY 5115</td>
<td>Mathematical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 5116</td>
<td>Mathematical Physics II</td>
<td>3</td>
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<tr>
<td>PHY 5240</td>
<td>Advanced Classical Mechanics</td>
<td>3</td>
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<tr>
<td>PHY 5346</td>
<td>Advanced Electromagnetic Theory I</td>
<td>3</td>
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<tr>
<td>PHY 5347</td>
<td>Advanced Electromagnetic Theory II</td>
<td>3</td>
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<tr>
<td>PHY 6645</td>
<td>Advanced Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 6646</td>
<td>Advanced Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 6524</td>
<td>Statistical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 6935</td>
<td>Graduate Research Seminar</td>
<td>4-6</td>
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</tbody>
</table>

In addition, three semester hours of specialized coursework are required in the student’s area of specialization and 12-14 hours of thesis work for a total of 45 hours.

Course Descriptions

Definition of Prefixes

AST-Astronomy; PHS-Physics/Specialized; PHY-Physics; PHZ-Physics; PSC-Physical Sciences; ENU-Nuclear Engineering.
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: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent. (F or S)

AST 5405 Extragalactic Astrophysics (3). Topics in extragalactic astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on galactic structure and evolution, quasars and cosmology. (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: PHY 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: PHY 4222. (F)

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electromagnetism: Electrostatics, Green’s function, Laplace’s equation, multipole expansion, magneto-statics, Maxwell’s equations, waves. Prerequisite: PHY 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: PHY 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: PHY 4605. (F or S)

PHY 5930 Seminar in Physics (1-3). A series of specialized lectures/seminars on selected topics in Physics/Astro-Physics. Prerequisites: Permission of Department.

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 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 5304 Advanced Nuclear Physics (3). The fundamental properties of nuclei, nuclear forces, nuclear models, radioactive, weak processes, and nuclear reactions. Prerequisite: PHY 4604. Corequisite: PHY 4605. (F or S)

PHY 6255 Molecular Biophysics (3). The use of theoretical physics techniques to investigate biological systems: Protein structure and dynamics, electron tunnelling, nuclear tunnelling, hemoglobin, photosynthesis, vision. Prerequisite: PHY 4605. (F or S)

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 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
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 instructor.

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 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, 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, random currents, 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 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, non-abelian 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)

Political Science

Christopher Warren, Associate Professor and Chairperson
Ronald Cox, Assistant Professor
Bruce Delwiler, Associate Professor
Eduardo Gamara, Associate Professor
Joel Gottlieb, Associate Professor
Ivelaw Griffith, Assistant Professor
Kevin Hill, Assistant Professor
Held Hobbs, Assistant Professor
Antonio Jorge, Professor
Paul Lewis, Assistant Professor
Dario Moreno, Associate Professor
Brian Nelson, Associate Professor
Niclo Rae, Associate Professor
William Reno, Assistant Professor
Mark Rosenberg, Professor
Cheryl Rubenberg, Associate Professor
Rebecca Salokar, Associate Professor
John Stack, Professor
Judith H. Steihm, Professor
Mary Volcansek, Professor

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, including theory and concept, 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 5935 Topics in Comparative Politics (1-6). 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 6062 Seminar in Comparative Judicial Politics (3). An examination of judicial structures, legal traditions, judicial behavior and judicial power cross culturally.

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 analyses.

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 (1-6). 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 (VAR). 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 (1-6). 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 state, 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, legitimated, 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 6639 Seminar in Public Law (VAR). Graduate seminar on special topic in public law. Topic to be announced in advance.

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 coursework 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 5707.

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 (VAR). 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 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.

PUP 6003 Seminar in Public Policy (1-6). Graduate seminar on special topic dealing with public policy analysis. Subject matter varies according to instructor. Topic to be announced in advance.

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**Psychology**

Scott Fraser, Associate Professor and Chairperson
Lorraine Bahnick, Associate Professor
Milton Blum, Professor Emeritus
Brian Cutler, Associate Professor
Marvin Dunn, Associate Professor
Joan Erber, Professor
Luis Escovar, Associate Professor
Gordon Finley, Professor
Ronald Fisher, Professor
Arthur Flexser, Associate Professor
Jacob Gewirtz, Professor
Edward Girden, Distinguished Professor Emeritus
Fernando Gonzalez-Relgosa, Associate Professor
Lowell Krokoff, Associate Professor
William Kurtines, Professor
Mary Levitt, Associate Professor
Michael Markham, Assistant Professor
Gary Moran, Professor
Janet Parker, Professor
James Rotten, Associate Professor
Juan Sanchez, Associate Professor
Bernard Saper, Professor
Bennett Schwartz, Assistant Professor
Wendy Silverman, Professor
Jonathan Tubman, Assistant Professor
Chockalingam Viswesvaran, Assistant 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. 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 to 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 interests and particular professional objectives. Six of the 36 semester...
credit hours consist of Master’s thesis credits.

Doctor of Philosophy in Psychology

The doctorate program in psychology has a two-fold focus: (1) Life-span development (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 March 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-Psychology; SOC-Sociology; SOP-Social Psychology; SPA-Speech Pathology and Audiology.

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 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 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 (2). An examination of the ethical standards for psychological practice as established by the American Psychological Association, and the Association’s standards for delivery of psychological services. Prerequisite: Admission to graduate study in psychology; (other graduate students admitted by permission of instructor).

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 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 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 of 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 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 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 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 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 instructor.

CYP 6766 The Psychology of Cultural 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 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 Behavioral Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and postnatal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or permission of instructor. Corequisites: 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 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 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 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, adop-
tion, work, effects of children on parents, and parent training. Prerequisite: Graduate standing or permission of 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 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 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 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 instructor. Corequisite: Proseminars.

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 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 6465 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 Cognitive 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 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 in development. Prerequisite: Graduate standing or permission of 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 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 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. Prerequisite: 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. Prerequisite: 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 5056.

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 structures. Behavioral and cognitive views of psycholinguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

PSO 6026 Principles & Practices of Counseling & Psychotherapy (3). Examination of the principles and practices involved in counseling and psychotherapy derived chiefly from cognitive behavioral psychology. Prerequisite: Graduate standing.

PSO 6247 Biological Bases of Behavior (3). Advanced survey of biological bases of behavior. Topics include neuroanatomy, functional organization and electrochemical processes of the nervous system, and neural bases of learning and memory. Prerequisites: Graduate standing or permission of instructor.


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 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 T^2, MA-Nova, principle component analysis, and factor analysis. Prerequisite: 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 instructor.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves 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 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 (VAR). Special topics will be announced in advance.

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 5056 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 introduc-
Sociology and Anthropology

Stephen M. Fjellman, Professor and Chairperson
G. Janice Alien, Assistant Professor
Jerald B. Brown, Associate Professor
Janet M. Chemelia, Associate Professor

Chris Girard, Assistant Professor
Hugh Gladwin, Associate Professor and Director, Institute for Public Opinion Research
Guillermo J. Grenier, Associate Professor and Director, Center for Labor Research
James P. Ito-Adler, Assistant Professor
Antonio Jorge, Professor
A. Douglas Kincaid, Associate Professor and Associate Director, LACC
Lilly M. Langer, Assistant Professor
Abraham D. Lavender, Associate Professor
Barry B. Levine, Professor
Kathleen Logan, Associate Professor
Shearon A. Lowery, Associate Professor
Anthony P. Maingol, Professor
James A. Mau, Professor and Provost
Betty Heam Morrow, Associate Professor
William T. Osborne, Associate Professor
Waller Gillis Peacock, Associate Professor and Director, Comparative Sociology Graduate Program
Usandro Perez, Associate Professor and Director, Cuban Research Institute
Alex Steplick, Professor and Director, Immigration and Ethnicity Institute
William T. Vickers, Professor
Lois West, Assistant Professor

The M.A. program in Comparative Sociology provides students with advanced educational opportunities in social science research and analysis leading to professional-level competence and employment opportunities in higher education, government service, and the private sector. This M.A. program can also serve as preparation for doctoral-level studies in Sociology and Anthropology. The M.A. curriculum emphasizes our faculty strengths in Sociology, Sociocultural Anthropology, and cross-cultural research, and provides a strong foundation in social theory and methods. Selected electives, graduate colloquia, and a research thesis complete the requirements for the M.A. in Comparative Sociology.

Admission Requirements

Application to the Master of Arts program in Comparative Sociology is made through IU’s Office of Admissions. The minimum requirements for admission include:

1. A baccalaureate degree from an accredited college or university;
2. A 3.2 grade point average (GPA) or higher during the last two years of the undergraduate program, or a combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE);
3. Two letters of reference from former instructors or others who are able to evaluate the applicant’s potential for graduate study;
4. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 500 or higher.

Each applicant to the program must complete a graduate application form, and arrange for the sending of official transcripts of all prior college work, an official report of GRE scores, and letters of reference to the Office of Admissions. An application will not be processed until the file is complete.

Applications for admission are evaluated by the Departmental Graduate Studies and Assistantship Committee. Admissions are competitive, so the meeting of the minimum requirements does not guarantee acceptance into the M.A. program.

A baccalaureate major in Sociology or Anthropology is not required for admission to the M.A. Program in Comparative Sociology. Beginning graduate students who have no prior coursework in Sociology, Anthropology, or Statistics may be required to take one or more undergraduate courses as prerequisites for graduate courses (based on the Graduate Committee's evaluation of the student's undergraduate record).

Degree Requirements

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 original research (including 6 credits of enrollment in SYA 6975 Thesis). A maximum of six credits of graduate coursework 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
- SYA 6925 Graduate Colloquium in Comparative Sociology (1 credit course taken three times) 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 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 presentation to a Thesis Committee chosen by the student’s and the Thesis advisor. All requirements for the M.A. in Comparative Sociology, including the successful defense of the thesis, must be completed within six years of the first enrollment in the graduate program.

**Doctor of Philosophy in Comparative Sociology**

Admissions: To be admitted into the doctoral program in Comparative Sociology a student must meet the University’s graduate admission requirements and the following minimum standards:

1. Students must have a baccalaureate degree from an accredited college or university. Students who do not have a Masters in Anthropology, Sociology, Comparative Sociology, or related field will be expected to obtain the Masters in Comparative Sociology at FIU on their way to completing the requirements of the Ph.D.

2. A 3.2 grade point average (GPA) or higher during the last two years of the undergraduate program or a combined score of 1100 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE).

3. A GPA of 3.5 on any previous graduate work.

4. Three letters of recommendation from references who know the student’s academic potential.

5. An example of written, academic work.

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 500 or higher.

7. Approval of the Comparative Sociology Graduate Studies Committee of the Department of Anthropology and Sociology.

The Ph.D. program builds upon the existing master's program in Comparative Sociology. Students in FIU's Comparative Sociology master's program must separately apply for admission as Ph.D. students. For students who transfer into the Ph.D. program with graduate credit, the Comparative Sociology Graduate Program Committee will determine what, if any, of the transferred credits will be counted towards core or track requirements (described below).

**Degree Requirements**

The Ph.D. in Comparative Sociology requires a total of 90 semester hours of credits, including credits that may have been used to obtain the master's degree. Credits may be transferred in accordance with the FIU Graduate Policies and Procedures Manual. A maximum of 36 semester hours earned elsewhere as a graduate degree-seeking student may be transferred. A maximum of 6 semester hours of graduate credit earned from another institution in a non-degree seeking status may be transferred.

**Core Courses**

These core courses are designed to provide a minimal foundation in theory and methods. The methods courses include the computer-based statistical analysis of comparative sociology data. All students are expected to become thoroughly familiar with the use of computers for Comparative Sociology work, including for writing, bibliographic work, and data analysis.

Students will be expected to take the core courses in sequence and as a cohort of entering graduate students. Classical Social Theories and Research Methods I are offered every fall semester, while Contemporary Social Theories and Research Methods II are offered every spring semester. Social Research and Analysis and the other required methodology course can only be taken after completing the other core courses.

**Required Courses**

**Core Courses (24 credits):**

- SYA 6125 Classical Social Theories 3
- SYA 6126 Contemporary Social Theories 3
- SYA 6305 Research Methods I 3
- SYA 6306 Research Methods II 3
- SYA 6925 Graduate Colloquium (1 credit course repeated six times) 3

An approved Methods course, such as ANT 6497 Qualitative Methods or SYA 6307 Research Methods III, SYA 6925 Graduate Colloquium (1 credit course repeated six times)

**Tracks** (student will select one track that will total 18 credits)

- Development & Social Change
- Migration & Ethnicity
- Gender & Family
- Cultural Analysis

**Electives and Concentration**

Course work in the Track and Specialty Area of Concentration will include at least two and not more than four courses outside the Department of Anthropology and Sociology. Course work outside the Department must be approved by either the Director of Comparative Sociology or the Chair of the student’s Research Committee.

If the student’s Research Committee considers it appropriate, course work may also include SYG 6940 Field Research.

**M.A. Thesis (6 credits)**

**Dissertation (24 credits) SYA 7980**

**Total Credits: 90**

**Tracks and Specialty Areas of Concentration**

Students will choose one track and one area of special concentration. The tracks reflect those areas in which the faculty of Comparative Sociology have special expertise. These are: Ethnicity & Migration, Development & Social Change, Cultural Analysis, and Gender & Family.

The special area of concentration will be specially developed by the student in conjunction with his or her graduate committee.

Once the student has finished the core requirements, he or she will choose a Research Committee that will direct his or her studies for the
track and special area of concentration, the Research Committee will consist of at least three faculty members from the Department of Anthropology and Sociology. The committee may include faculty members from other departments, a professional from an external agency or another university whose appointment has been approved by both the chair of the student's Research Committee and the director of Comparative Sociology. If outside members are included on the student's Research Committee, they will be in addition to the three faculty members from the Department of Anthropology and Sociology. The student’s Research Committee will determine appropriate courses and readings for the student’s special area of concentration, administer the candidacy examination in the special area of concentration, and assist the student in the preparation and defense of both his or her Dissertation Proposal and the Dissertation itself.

Each track will have a standing committee of departmental faculty with expertise in that area. That committee will determine requirements for that track including designation of reading lists and what courses within and outside the department are relevant to the track.

Students must have at least two elective courses outside the department and may have no more than four elective courses outside the department.

Candidacy Examination
Each student must pass three candidacy examinations: one in theory, one in a track, and one in the student’s special area of concentration. The qualifying exams in theory and the tracks will be developed and administered by standing committees of departmental faculty specifically for those areas. The qualifying examination in the student’s special area of concentration will be developed and administered by the student’s committee.

To sit for the candidacy examinations a student must meet the following criteria: the student must be in good academic standing at the University, the student must have completed the University residency requirement of a minimum of 18 hours within a period of twelve months in residence at the University. The student’s Research Committee must certify that the student is capable of completing all of the required course work in the core, track, and specialty area of concentration by the end of the semester in which the candidacy exam is given.

Language Requirement
Students must also demonstrate knowledge of at least one foreign language other than English. In some circumstances, the student’s committee may determine that statistics or computer skills may substitute for a foreign language.

Residency Requirement
To satisfy the residency requirement for a doctoral degree, the candidate must complete a minimum of 18 credit hours within a period of twelve months in residence at the University.

Dissertation Proposal
After passing the three qualifying examinations, students must develop and defend before their Research Committee a dissertation proposal. 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.

Dissertation and Its Defense
After successfully defending the dissertation proposal, the student will conduct research and complete the dissertation. When the dissertation is completed, the student will defend it before the student’s committee.

Course Descriptions
Definition of Prefixes
ANT-Anthropology; 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.

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 instructor. (F)

ANT 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. Prerequisites: Graduate status or permission of the instructor. (F)

ANT 5548 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 instructor. (SS)

ANT 5908 Directed Individual Study (VAR). Supervised readings and or field research and training. Prerequisite: Permission of instructor. (F,S,SS)

ANT 5915 Directed Field Research (VAR). Permission of instructor required.

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 instructor. (S)

ANT 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 in gender 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 Graduato 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 6497 Qualitative Research Methods (3). Qualitative research methods in anthropology and sociology. Includes participant-observation, field work, key informants and in-depth interviewing, visual techniques, ethical issues, and reflexivity. (F)

ANT 6931 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 instructor. (F)

ANT 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.

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 instructor. (F, S, SS)

SYA 5941 Directed Field Research (VAR). Permission of 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, Taylor, and Boas. Prerequisite: Graduate standing or permission of 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 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 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 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 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 coursework 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 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 dissertation under the supervision of a major professor and the doctoral committee. Hours may vary. (F, S)

SYD 5045 Demographic Analysis (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 instructor. (F)

SYD 6325 Seminar in 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 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 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 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 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 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 6811 Sociological Feminist Theory (3). Examines sociological theory as it deals with gender from a feminist perspective. Prerequisite: Graduate standing. (S)

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 7940 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)

SYO 6135 Advanced Comparative Family Systems (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 6305 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 6825 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. (S)

SYO 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 broad areas of social science analysis in dealing with questions of international development. (S)

SYO 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)

SYO 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
 Carlos W. Brain, Associate Professor and Chairperson
 LING Chen, Assistant Professor
 ZHANMIN CHEN, Assistant Professor
 GAOU L. GHAL, Associate Professor
 sneh ghal, Assistant Professor
 Ina Parks Howell, Lecturer
 Jie Mi, Assistant Professor
 Laura Reisert, Instructor
 Samuel S. Shapiro, Professor
 Hassan Zahed-Jasbi, Associate Professor
 jyoti N. Zalikkar, Associate Professor

The Department of Statistics does not presently offer a degree program at the graduate level but does however offer graduate courses. These courses are offered to supplement other graduate degree programs at the University.

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 3313, COP 2210 or CGS 3420, MAS 3105; and STA 3322 or STA 3164 or STA 3033.

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, a-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 instructor. (S)

STA 5126/PSY 5206 Fundamentals of Design of Experiments (3). CRD and RCB designs, Latin square designs, factorial, nested and nested-factorial experiments, fixed, random and mixed models, Split-plot designs, Covariance analysis. Prerequisites: STA 3123 or STA 3112 or equivalent.
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 3322 or STA 3164 or STA 3033 or STA 3163 and STA 3321.

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 3313.

STA 5505 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 5505 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 3322.

STA 5800 Stochastic Processes for Engineers (3). Probability and conditional probability of distributions of a random variable, bivariate probability distributions, multiple random variables, stationary processes. Poisson and normal processes. Prerequisites: STA 3033, MAC 3313, MAP 3302.

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 3122 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 3322, or STA 6327.

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 3313.

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 6807 Queueing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queueing models, statistical models. Prerequisites: Permission of Instructor, MAC 3312 and either STA 3033 or STA 3321.

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 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
Clive King, Professor and Chairperson
Ralph F. Buckley, Associate Professor
William Burke, Professor
James M. Couper III, Professor
Carol Damian, Assistant Professor
Eduardo Del Valle, Associate Professor
Richard Duncan, Associate Professor
Miria Gomez, Associate Professor
Ellen Jacobs, Professor
William Maguire, Professor
Juan Martinez, Assistant Professor
Dahlia Morgan, Lecturer/Art Museum Director
Christine Tamblyn, Assistant Professor
Manuel Torres, Associate Professor
Barbara Watts, Associate Professor
Sandra Winters, Associate Professor

The Department of Visual Arts does not presently offer a degree program at the graduate level, but does, however, offer graduate courses. These courses are offered to supplement other graduate degree programs at the University. 3,000 and 4,000 course prerequisites.

Course Descriptions

Definition of Prefixes
ARH-Art History; ART-Art; PGY-Photography.

ART 5907 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of the art faculty 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.

ART 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 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). A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore the more difficult technical aspects of areas such as hollow ware, enameling, casting, and stone setting. May be repeated.

ART 5185C Glassblowing (3). A basic course in off-hand glass blowing, concerned with preparing, forming, and finishing glass; understanding of glass as an art form: operation and maintenance of a glass studio. May be repeated.

ART 5340C Drawing (3). Drawing will be considered as an essential part of every art student's curriculum. Depending on his lower level work, a student will be encouraged to take at least one drawing course at the University. Off-campus studio work may be arranged. May be repeated.

ART 5341C Figure Drawing (3). Drawing from the model during assigned studio time. Open to all students. May be repeated. Prerequisite: ART 3310.

ART 5406C Printmaking (3). With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silk-screen and other experimental techniques. May be repeated.

ART 5580C Painting (3). An advanced course concentrating on conceptual clarity and the realization of stylistic development. Group individual criticism will be emphasized. May be repeated. Prerequisites: ART 3510C or equivalent. Suggested prerequisites: ART 3831C and ART 3803C. May be repeated.

ART 5710C Figure Sculpture (3). To develop skills in representational structure and anatomy from the model and learn mold-making techniques. May be repeated.

ART 5730C Sculpture (3). With a background in beginning sculpture, the student will develop standards of excellence, both in concept and technique, with stress on individual expression. An equipped shop will be available to the student. May be repeated.

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.

PGY 5425C Photography (3). An advanced course for majors and accomplished non-majors. Includes demanding critique of student's work. May be repeated. Prerequisite: PGY 3410C or permission of instructor.
Certificate Programs

African-New World Studies Certificate Program
Leke Adeofe, Philosophy
Stephen M. Fjellem, Sociology/Anthropology
Ira Goldberg, Education
Bruce Haupill, Philosophy and Religion
Arthur W. Herriott, Arts and Sciences
Adele S. Newson, English
Joyce Peterson, History
Alex Stepick, III, Sociology/Anthropology
Linda Strong-Leek, English
Mark Szuchman, History
Robert Vos, Education
Don Watson, English
Malda Watson, Modern Language

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:

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<tr>
<td>AMH 5935</td>
<td>Topics in American History</td>
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<td>HIS 5930</td>
<td>Special Topics</td>
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<tr>
<td>ANT 6319</td>
<td>The African Diaspora: Anthropological Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6937</td>
<td>Linguistics Seminar</td>
<td>3</td>
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<td>Lit 5487</td>
<td>Texts and Culture</td>
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</tr>
<tr>
<td>PHI 5934</td>
<td>Special Topics</td>
<td>3</td>
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</table>

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.

<table>
<thead>
<tr>
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<tr>
<td>ECP 6605</td>
<td>Urban and Regional Analysis</td>
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<tr>
<td>ECP 7606</td>
<td>Urban and Regional Economics</td>
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<td>ECS 6436</td>
<td>Economics of Caribbean Migration</td>
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<td>ECS 7435</td>
<td>Economics of the Caribbean</td>
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<td>INR 5087</td>
<td>Ethnicity and the Politics of Development</td>
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<tr>
<td>LIN 6572</td>
<td>Structure of a Non-Indo-European Language</td>
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<td>POS 5932</td>
<td>Topics in Urban Politics</td>
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<td>POS 6146</td>
<td>Seminar in Urban Politics</td>
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<td>CYP 6766</td>
<td>The Psychology of Cross-Cultural Sensitization in a Multicultural Context</td>
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<tr>
<td>DEP 6145</td>
<td>Psychology of Culture and Childhood</td>
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<td>DEP 6465</td>
<td>Psychology of Culture and Aging</td>
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<td>SOP 5316</td>
<td>Theories and Methods of Cross-Cultural Research</td>
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<td>SPN 5536</td>
<td>Afro-Cuban Culture</td>
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<td>SPW 5515</td>
<td>Advanced Studies in Hispanic Folklore</td>
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<td>ANT 6319</td>
<td>The African Diaspora: Anthropological Perspectives</td>
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<td>SYA 6943</td>
<td>South Florida Area Study</td>
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<td>SYD 6625</td>
<td>South Florida Sociocultural Systems</td>
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<td>SYD 6427</td>
<td>Seminar in Comparative Urban Issues</td>
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<td>SYD 6705</td>
<td>Comparative Analysis of Ethnicity and Race</td>
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College of Education

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<td>EDE 5941</td>
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<td>EDE 5942</td>
<td>Practicum II in Urban Education</td>
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<tr>
<td>EDF 5851</td>
<td>Socio/Cultural Conflict in Educational Change</td>
<td>3</td>
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</tbody>
</table>

Latin American and Caribbean Studies Certificate Program

Mark B. Rosenberg, Director and Professor (Political Science)
A. Douglas Kincaid, Associate Director and Assistant Professor (Sociology)
Barbara C. Cruz, Student Advisor

The program in Latin American and Caribbean studies at Florida International University represents one way in which it fulfills its commitment to furthering international understanding. The program encourages students to take an interdisciplinary approach to this important area by awarding a certificate to both degree and non-degree seeking students who successfully complete the requirements. For students pursuing a degree, the certificate program should be understood as a complement to the student's major area or discipline of study. For non-degree seeking students, the certificate represents a way to gain a fuller, more complete understanding of Latin America and the Caribbean without pursuing a lengthy course of study at the university.

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 the university.

LACC has sponsored summer study abroad opportunities since 1981 in Mexico, Costa Rica, Puerto Rico, Barbados, Haiti, and the Dominican Republic. In addition, LACC has placed certificate students in summer programs sponsored by the Organization of American States in Argentina and Costa Rica.

An important component of Latin American and Caribbean holdings of the FIU library system had surpassed 29,000 volumes, exclusive of government documents. Regionally, the collection is strongest in works on Cuba and Central America, with substantial strength in Caribbean countries as well. The library's Latin American and Carib-
bean Collection receives about 45 publications and eight daily or weekly newspapers (this is in addition to 120 Latin American and Caribbean-related publications that can be found in the library's general periodical section). LACC also currently receives about 150 publications, primarily newsletters and research report series. In addition, the audio-visual section of the library contains about 220 films and video recordings on Latin America and the Caribbean and an extensive slide collection of Latin American art works.

Certificate Requirements:

1. At least 15 semester hours of courses from the certificate program course listing, or approved by the certificate program faculty advisor. Courses must be taken in at least three different disciplines, and from at least two disciplines outside of the student’s departmental major.

2. The two-course, introductory language sequence at FIU in Spanish, Portuguese, or French. Exemption from this requirement may be obtained through a proficiency examination administered by the FIU Department of Modern Languages. Language courses may not be counted toward the fulfillment of requirement (1) above.

3. A minimum of three semester hours of independent study under the supervision of a certificate program faculty member, or other instructor approved by the certificate program faculty advisor. During this work, the student will prepare a research paper on a theme directly concerned with some aspect of Latin American and Caribbean affairs.

Students interested in the certificate program, should consult directly with either the Associate Director or Student Advisor of the Latin American and Caribbean Center. Call 305-348-2894 for an appointment.

The following courses fulfill certificate requirements. These courses should be understood as a partial list; students should consult with advisors of the certificate program about current course offerings.

**Anthropology**

- ANT 3144 Prehistory of the Americas 3
- ANT 3251 Peasant Society 3
- ANT 3403 Cultural Ecology 3
- ANT 4224 Tribal Art 3
- ANT 4324 Mexico 3
- ANT 4328 Maya Civilization 3
- ANT 4332 Latin America 3
- ANT 4334 Comparative Latin American Cultures 3
- ANT 4340 Cultures of the Caribbean 3
- ANT 4343 Cuban Culture & Revolution 3

**Economics**

- ECO 4701 The World Economy 3
- ECO 4733 Multinational Corporation 3
- ECO 5709 The World Economy 3
- ECS 3402 The Political Economy of South America 3
- ECS 3440 Economics of Central America 3
- ECS 4013 Economic Development 3
- ECS 4334 The Latin American Economies 3
- ECS 4404 Economic Integration-Latin America 3
- ECS 4430 The Economic Development of Cuba - Past and Present 3
- ECS 4432 Economic Integration Caribbean 3
- ECS 4433 Economics of the Caribbean 3

**Education**

- EDF 5720 Latin American Education: A Historical and Contemporary Overview 3
- EDF 5780 Intercultural Education: National and International Perspectives 3
- EDG 6425 Macro-Micro Planning in Education 3

**Geology**

- GLY 3157 Elements of Caribbean Geology 3
- GLY 4190 Caribbean Earth Sciences Seminar 3
- GLY 4792 Caribbean Mineral Resources Field Trip 3
- GLY 5620 Caribbean Stratigraphic Micropaleontology 3
- GLY 5793 Caribbean Shallow-Marine Environments 3

**History**

- LAH 2092 The Latin Americans 3
- LAH 3132 The Formation of Latin America 3
- LAH 3450 Central America 3
- LAH 4433 Modern Mexico 3
- LAH 4474 Topics in Caribbean History 3
- LAH 4482 Cuba from Bourbons to Castro 3
- LAH 4511 Order and Revolution in Argentina 3
- LAH 4932 Topics in Latin American History 3
- HIS 4450 Slavery in the Americas 3

**International Business**

- MAN 3602 International Business 3
- MAN 4600 International Management 3
- MAN 4610 International and Comparative Industrial Relations 3
- MAN 6635 International Business Policy 3

**International Relations**

- GEA 3320 Population and Geography of the Caribbean 3
- GEA 3400 Population and Geography of Latin America 3
- INR 3243 International Relations of Latin America 3
- INR 3246 International Relations of the Caribbean 3
- INR 4247 Caribbean Regional Relations 3
- INR 4283 International Relations, Development, and the Third World 3

**Marketing**

- MAR 4156 International Marketing 3
- MAR 4803 Cases in Marketing Management 3
- MKA 4244 Export Marketing 3

**Modern Languages**

- FRE 3500 History of French Civilization (Latin American course) 3
- FRE 4501 Contemporary French Society (Latin American course) 3
- POR 3500 Luso-Brazilian Culture 3
- SPN 3500 Civilization I (Latin American course) 3
- SPN 4501 Civilization II (Latin American course) 3
- SPW 3371 The Latin American Short Story 3
- SPW 3520 Prose and Society (Latin American course) 3
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<th>Course Code</th>
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<td>Latin American Theatre</td>
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<tr>
<td>SPW 4351</td>
<td>Spanish American Poetry I</td>
<td>3</td>
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<tr>
<td>SPW 4352</td>
<td>Spanish American Poetry II</td>
<td>3</td>
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<tr>
<td>SPW 4364</td>
<td>The Spanish American Essay</td>
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<tr>
<td>SPW 5237</td>
<td>The Traditional Spanish American Novel</td>
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<td>Contemporary Spanish American Novel</td>
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<td>SPW 5358</td>
<td>Prose and Poetry of Jorge Luis Borges</td>
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<td>SPW 5359</td>
<td>Poetry of Pablo Neruda</td>
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<td>SPW 5576</td>
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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
Skow, Marilyn, M.Ph. (Columbia University), Associate Professor, Theatre and Dance
Silberer, James, Ph.D. (University of Notre Dame), Associate Professor, Mathematics
Sprechman, 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
Starr, Susan, Artist Diploma, (Curtis Institute), Professor and Artist in Residence, Music
Stayman, Andrei, M.A. (University of Miami), Instructor, Modern Languages
Stepick, 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
Stoddard, Philip D., Ph.D. (University of Washington), Assistant Professor, Biological Sciences
Strong-Loek, 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), Assistant Professor, School of Computer Science
Sutton, James M., M.A. (Yale University), Instructor, English
Sweet, W. Jay, Ph.D. (University of Maryland), Assistant Professor, Mathematics
Szcuchman, Mark, Ph.D. (University of Texas), Professor and Chairperson, History
Tamblyn, Christline, M.F.A. (University of California-San Diego), Assistant Professor, Visual Arts
Tao, Nongjian, Ph.D. (Arizona State University), Assistant Professor, Physics
Taylor, Graham, Ph.D. (University of California-Berkeley), Assistant Professor, Mathematics
Timlick, Lesley-Ann, M.F.A. (University of California-Davis), Assistant Professor, Theatre and Dance
Todd, Therald, Ph.D. (University of Oregon), Associate Professor and Chairperson, Theatre and Dance
Torres, Manuel, Ph.D. (University of New Mexico), Associate Professor, Visual Arts
Tracey, Martin, Ph.D. (Brown University), Professor, Biological Sciences
Treadgold, Warren, Ph.D. (Harvard University), Professor, History
Trexler, Joel C., Ph.D. (Florida State University), Assistant Professor, Biological Sciences
Tubman, Jonathan, Ph.D. (Pennsylvania State University), Assistant Professor, Psychology
Urbe, Victor, Ph.D. (University of Pittsburgh), Assistant Professor, History
Vagianakis-Nishanian, Violet, Ph.D. (University of Miami), Professor, 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, Mathematics
Visvesvaran, Chockalingam, Ph.D. (University of Iowa), Assistant Professor, Psychology
Volcansek, Mary, Ph.D. (Texas Tech University), Professor, Political Science
Wallace, Dorothy Patricia, Ph.D. (Cornell University), Assistant Professor, English
Wallitz, Susan, Ph.D. (University of Denver), Associate Professor, International Relations
Wang, Xuewen, Ph.D. (Iowa State University), Assistant Professor, Physics
Warren, Christopher, D.A. (Lehigh University), Associate Professor and Chairperson, Political Science
Warren, Paul, Ph.D. (University of Wisconsin-Madison), Associate Professor, Philosophy
Watson, Donald, Ph.D. (University of Virginia), Professor and Chairperson, English
Watson-Espener, Maida, Ph.D. (University of Florida), Professor and Chairperson, 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), Assistant Professor, Physics
Weeks, Ophelia, Ph.D. (Howard University), Associate Professor, Biological Sciences
Weinberger, Robert, M.A. (Columbia University), Instructor, English
Weinberger, Theodore, Ph.D. (Emory University), Assistant Professor, Religious Studies
Weiss, Mark, Ph.D. (Princeton), Associate Professor, School of Computer Science
Weitz, Barbara, M.S. (Florida International University), Instructor, English
Welch, Marcelle, Ph.D. (University of Michigan), Professor, Modern Languages
West, Lois, Ph.D. (University of California-Berkeley), Assistant Professor, Sociology/Anthropology and Women’s Studies
Whitman, Dean, Ph.D. (Cornell University), Assistant Professor, Geology
Wilkins, Mira, Ph.D. (University of Cambridge), Professor, Economics
Williams, C. Kemp, Ph.D. (Indiana University), Associate Professor, English
Williams, Willie, Ph.D. (Michigan State University), Associate Professor, Mathematics
Willumsen, Maria, Ph.D. (Cornell University), Associate Professor, Economics
Winkle, Stephen, Ph.D. (University of California at Berkeley), Associate Professor, Chemistry
Winters, Sandra, M.F.A. (Cornell University), Associate Professor, Visual Arts
Wolfe, Gregory Baker, Ph.D. (The Fletcher School of Law and Diplomacy), Professor, International Relations
Yavas, Mehmet, Ph.D. (University of Kansas), Associate 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
Zalikar, Jyoti N., Ph.D. (University of California-Santa Barbara), Associate Professor, Statistics
Zhu, Yifu, Ph.D. (University of Virginia), Assistant Professor, Physics
Zweibel, John, Ph.D. (Columbia University), Associate Professor, Mathematics
College of Business Administration
College of Business Administration

The College of Business Administration (CBA) offers academic programs leading to the graduate degrees of Master of Accounting (M.Acc.), Master of Business Administration (M.B.A.), Master of International Business (M.I.B.), Master of Science in Finance (M.S.F.), Master of Science in Taxation (M.S.T.), and Doctor of Philosophy in Business Administration (Ph.D.).

The College is organized into the School of Accounting and Departments of Decision Sciences and Information Systems, Finance, Management and International Business, and Marketing and Business Environment.

Executive Master of Business Administration

This is a special program charging tuition plus additional fees limited to a select number of students. The objective of this program is to provide an educational alternative, tailored to the needs of the working professional who wishes to obtain a Master of Business Administration in a concentrated time span. For information on the program call 348-1036.

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.

Master's Degree Programs

All students taking graduate business courses must be admitted to a business graduate program or have prior approval from the appropriate graduate counselor.

The graduate programs of the College offer the student advanced professional education for managerial careers in business and government. At the Master's level, the degrees of Master of Accounting, Master of Business Administration, Master of International Business, Master of Science in Finance, and Master of Science in Taxation are offered.

The Master of Business Administration degree is designed to give students a general management education and to assist them in preparing for their chosen careers. More specialized preparation is available in the other programs.

Admission Requirements

To be eligible for admission to the graduate programs in the College, the applicant must:

1. Satisfactorily meet the general University requirements for admission to graduate programs.
2. Hold a Bachelor's degree from a regionally accredited college or university.
3. Show high promise of success in graduate studies as determined by the faculty. Admission to all the College graduate programs will be based upon a combination of the Graduate Management Admission Test (GMAT) and the upper-division grade point average.
4. A foreign student must obtain a minimum score of 500 on the TOEFL, or an equivalent score on a comparable examination. See General Admission requirements for Foreign Students (undergraduate and graduate) in the Admission section of the catalog.
5. Be in good standing with previous colleges or universities attended.

Application Procedures

A student planning to enroll in graduate studies in the College must complete the following steps and meet the stipulated requirements:

1. Submit a Graduate Application for admission to the Admissions Office. Application Forms will be mailed upon request. The admission process may require as long as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution to the Admissions Office. (Copies submitted directly by applicants are not accepted for application purposes).
3. Submit scores on the Graduate Management Admissions Test (GMAT), administered nationally by the Educational Testing Service (Box 956, Princeton, New Jersey 08540). Registration forms will be mailed upon request.

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 the requirements of an approved program of study. This program of study is developed by the student and his or her graduate counselor and must be approved by the appropriate Department Chairperson.
3. (a) Complete a minimum of 36 semester hours (depending on program) of graduate level coursework, for the Master of Science in Finance.
   (b) Complete a minimum 40 semester hours of graduate level coursework, for the Master of Business Administration or 39 semester hours for the Master of International Business.
4. Earn a minimum average of 'B' (3.0) in all approved courses in the student's program of study.
5. No courses in which a grade below 'C' is earned may be counted toward the M.Acc., MBA, MIB, MSF, or MST degrees. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded 'D' or 'F'; and any approved undergraduate courses taken while a graduate student.

Transfer Credit

Students may receive permission to transfer up to a maximum of six semester hours of graduate credit toward their degree program, provided that: (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) grades of 'B' or higher were earned; (4) the courses are judged by the faculty advisor, the Department Chairperson, and the Dean 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 awarding of the degree. Credits are not transferable until the student has earned 15 semester hours in the CBA graduate program. Students wishing to transfer to the CBA must be in good standing at their previous school or college.

Readmission

An admitted degree-seeking student who has not completed any course at the University for three consecutive semesters or more (including Summer semester) must reapply for readmission. If readmitted, the student must comply with the University degree requirements in effect at the time of readmission.

Time Limit

All work applicable to the Master's degree, including transfer credit, must be completed within six years immediately preceding the awarding of the degree.

Change of Major

The graduate student who wishes to change his or her program major must submit a Graduate Change of Major request to the Admissions Office and meet the admission and program requirements in effect at the time of the change of major.

Master of Business Administration (MBA)

The objective of the MBA program is to develop a management generalist who has a breadth of knowledge and understanding of business and who is oriented toward pragmatic problem-solving. The courses leading to the MBA degree are designed to provide experience in the techniques and concepts of business administration.

The MBA program has two tracks:

1. A track of 40 hours for students who have an undergraduate degree in business from an AACSB accredited school awarded five years or less prior to acceptance in this program. This track consists of 28 hours of non-waivable core courses and 12 hours of approved electives which may be taken towards a concentration in one subject area. (Note: students are required to take GEB 6445, Legal Environment of Business, in addition to the four electives. If an upper-division legal environment of business course was not completed within five years prior to admission.)

2. A track of up to 61 hours for students who have a) a business undergraduate degree awarded more than five years prior to acceptance into this program, b) a business undergraduate degree from a school not accredited by the AACSB, or c) a non-business undergraduate degree. This track consists of 21 hours of waiveable pre-core courses, 28 hours of non-waiveable core courses, and 12 hours of approved electives which may be taken towards a concentration in one subject area.

Seven Pre-Core Courses (21)

- ACG 6026 Accounting for Managers
- ECP 6705 Managerial Economics I
- ECP 6715 Macroeconomic Forecasting for Management
- GEB 6445 Legal Environment of Business
- MAN 6659 Managerial Decision-Making
- MAR 6805 Marketing Management
- QMB 6603 Quantitative Methods in Management

Nine Core Courses (28)

- ACG 6175 Financial Reporting and Analysis
- FIN 6428 Financial Management
- FIN 6456 Quantitative Methods in Financial Analysis
- MAN 6204 Organization and Management Theory
- MAN 6245 Organizational Behavior
- MAN 6501 Operations Management
- MAN 6830 Organization Information Systems
- MAN 6830L Organization Information Systems Lab
- MAN 6726 Strategic Management
- MAR 6816 Strategic Marketing Management

Four Elective Courses (12)

Completion of four approved 6000-level courses offered by two or more CBA units leads to an MBA in General Business. Areas of concentration are also available by completing up to three of the four 6000-level elective courses offered by the following CBA units. One of the electives is required to be taken in the International Area.

CBA Unit

- Accounting
- Decision Sciences and Information Systems
- Finance
- Management
- International Business
- Marketing

Concentration

- Accounting
- Management Information Systems
- Finance
- Organizational Behavior
- Human Resources Management
- International Business
- Marketing

Each area of concentration is subject to approval by the department offering courses in that area. Some areas of concentration may require completion of one or two additional courses beyond the MBA requirements.

Doctoral Degree Programs

The doctoral program in Business Administration is a selective one leading to the Ph.D. degree.

The program emphasizes the development of research and teaching skills to ensure that graduates acquire the credentials necessary for placement in leading academic institutions.

Each doctoral student's program of study is tailored to mesh faculty and student interests and to maintain a high level of interaction among the students and the faculty.

The program requires three to four years of full-time study, including a year to a year-and-a-half of dissertation research. Core business courses are required of all doctoral candidates during the first year of study; the second year consists of courses in a major area of concentration. The first year is geared toward breadth of knowledge, whereas the second year develops students' depth of knowledge in a particular area of concentration.

Major Areas of Concentration

- Accounting
- Information Systems
- Finance
- International Business
- Management
- Marketing
Admission Requirements
Applicants are considered from students with a wide variety of educational backgrounds, such as business, liberal arts and the sciences. Those who are accepted into the program show strong evidence of ability and scholarly interests.

Potential students should provide the following:
1. Completed application form and processing fee.
2. Three letters of recommendation from academic sources.
3. Official transcripts from all undergraduate and graduate coursework.
4. A report of the Graduate Management Admissions Test (GMAT) score from the Educational Testing Service (the average GMAT score for entering students is above 600).
5. A formal statement of purpose for seeking the doctoral degree.
6. International students whose native language is other than English must also submit an official report of their score on the Test of English as a Foreign Language (TOEFL) from the Educational Testing Service. A minimum score of 500 is required. See the General Admission Requirements for Foreign Students (undergraduate and graduate) in the Admission section of the catalog.

Admission to the program is considered as soon as all the required documents are received. The Doctoral Program in Business Administration at the University encourages all qualified persons to apply and admits applicants without regard to sex, age, race, color, creed, handicap, marital status, national or ethnic origin.

Degree Requirements
General degree requirements for all doctoral candidates are:
1. Demonstration of practical knowledge of research methods and procedures in the areas of statistics, and behavioral sciences; a research project is conducted at the end of the first year of study to ensure that all candidates have acquired the relevant skills.
2. Successful completion of a comprehensive examination at the end of the second year in a major area of concentration to ensure that students are prepared to begin dissertation research.


Financial Aid
Applicants to the doctoral program may request financial aid by completing the form included with the application. Research and teaching stipends are available. The stipend may include both cash award and waiver of tuition, depending upon the applicant’s qualifications.

School of Accounting
James H. Scheiner, Professor and Director
Rolf Auster, Professor
Delano H. Berry, Assistant Professor
Lucia S. Chang, Professor
Jack L. Carter, Assistant Professor
Yong S. Chee, Assistant Professor
Lewis F. Davidson, Professor
Manuel Dieguez, Instructor
Mortimer Dittenhofer, Professor
Donald W. Fair, Instructor and Associate Dean
Georgina Garcia, Instructor
Milin H. Guo, Assistant Professor
Rosalie C. Hallbauer, Associate Professor
Harvey S. Hendrickson, Professor
Kevin Kemrer, Associate Professor
David Lavin, Associate Professor
Myron S. Lubell, Associate Professor
David Manly, Assistant Professor
Kenneth S. Most, Professor Emeritus
Leandro S. Nunez, Instructor
Robert B. Oliva, Associate Professor
Felix Pomeranz, Professor, Associate Director and Director, Center for Accounting, Auditing, and Tax Studies
Leonardo Rodriguez, Professor
Ena Rose-Green, Assistant Professor
Bernadette Rut, Assistant Professor
Robert W. Rutledge, Assistant Professor
John T. Sennetti, Professor
Samuel Tiras, Assistant Professor
Jerry Turner, Assistant Professor
Barbara T. Uliss, Assistant Professor
Clark Wheatley, Assistant Professor
Richard H. Wiskeman, Jr., Instructor
John Wrieden, Instructor
Harold E. Wyman, Professor and Dean
Doria Yeaman, Associate Professor

The School of Accounting offers two graduate degree programs, Master of Accounting and Master of Science in Taxation. The two programs are designed for students who have completed an undergraduate degree in accounting, or the equivalent, from a regionally accredited college or university. Equivalency of undergraduate degrees will be determined by the Director of the School of Accounting. Students whose degrees are in majors other than accounting will be required to complete business or accounting deficiencies, or both. Before a student with deficiencies may take courses in either program, the Director of the School must approve the student’s program of study.
A student with a degree in business who is admitted to the M.Acc. program may be required to complete up to six accounting pre-core courses (21 semester hours) from the following:

ACG 4105   Financial Accounting I   3
ACG 4111   Financial Accounting II   3
ACG 4651   Auditing   3
ACG 4401   Accounting Systems   3
ACG 4341   Management Accounting and Control   3
BUL 4320   Business Law I   3
TAX 4001   Income Tax   3

A student with a non-business degree who is admitted to the M.Acc. program will be required to complete, in addition to the pre-core courses listed above, the seven pre-core courses of the Master of Business Administration, with the exception of GEB 6445 (Legal Environment of Business), for which MAN 6726 (Strategic Management) must be substituted.

Graduate Student Advising and Preregistration
All students taking graduate accounting and tax courses must be fully admitted to a graduate accounting program or have written permission from the Director of the School of Accounting. Registration for all graduate accounting and tax courses must be made through, and evidenced by a proper advisor signature and a stamp of the School of Accounting Graduate Advisor. Graduate students may be preregistered during a two-week period commencing three weeks prior to official university registration.

Master of Accounting (M.Acc.)
The M.Acc. degree is designed to prepare students for entry and advancement in the accounting profession and to provide the additional formal education needed by persons already in accounting and other fields seeking either a career change or advancement, or both.

The M.Acc. degree is available in the concentrations of accounting/auditing, systems, government accounting, and corporate/management accounting, and a separate track of internal auditing. These are designed to prepare the students for the careers described below:

<table>
<thead>
<tr>
<th>Concentration/Track</th>
<th>Career</th>
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</thead>
<tbody>
<tr>
<td>Financial Accounting/Auditing</td>
<td>Independent Accountant in the public accounting profession</td>
</tr>
<tr>
<td>Systems</td>
<td>Accounting systems, consultant, auditor, or officer in a business corporation or public accounting.</td>
</tr>
<tr>
<td>Internal Auditing</td>
<td>Industry or Government internal auditor</td>
</tr>
<tr>
<td>Corporate Management/Accouting</td>
<td>Internal accountant, or officer in a business corporation.</td>
</tr>
</tbody>
</table>

A student who wishes to sit for the CPA examination must select courses which satisfy the 30 hours of post-baccalaureate study including auditing, law and taxation required by the Florida Statute. Relevant portions of the Florida Statute are detailed below.

M.Acc. Program Concentrations
The M.Acc. program with a concentration in financial accounting/auditing, systems, internal auditing, or corporate/management accounting consists of two parts requiring 30 hours: the accounting core (nine semester hours) and the elective (21 semester hours).

Accounting Core Requirements
ACG 6135   Seminar in Financial Accounting Theory I
ACG 6657   The Environment of Accounting
ACG 6437   Advanced Accounting Systems

Required courses in accounting are not transferable unless approved in advance by the Director of the School of Accounting.

The accounting elective requirements are seven courses (21 semester hours) selected from the following three groups of courses:

1. No more than two tax courses from these:
   TAX 6065   Tax Research Practice and Procedure
   TAX 6105   Taxation of Corporations I
   TAX 6205   Partnership Taxation

2. If sitting for the CPA examination, three courses, which include any 6000-level auditing course and these:
   BUL 6831   Business Law II
   TAX 6015   Taxation of Corporations and Partnerships

3. Additional 6000-level courses approved by the Director of the School of Accounting with a minimum of four courses (12 semester hours) in a single concentration of financial accounting/auditing, systems, internal auditing, or corporate/management accounting.

Master of Science in Taxation
The M.S.T. program is designed to prepare students entry or advancement in the specialized area of taxation. Students may develop their own specializations. The final program of studies must be approved by the Director of the School of Accounting.

The M.S.T. program consists of two parts requiring 30 hours of coursework: tax core (12 semester hours); and electives (18 semester hours).

Tax Core Requirements
   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

The elective requirements are six additional 6000-level courses approved by the Director of the School of Accounting three of which must be tax courses excluding TAX 6015, TAX 6005, and TAX 6935.

Students admitted to the M.S.T. program who wish to sit for the CPA examination 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.

Florida CPA Requirement
Completion of a Bachelor of Business Administration degree program with emphasis in accounting, while available, will not be accepted alone by the Florida State Board of Accountancy as meeting the requirements for the additional credit
hours and specific courses required for the CPA Examination.

With a carefully planned program of study, a student who earns either a M.Acc. or a M.S.T., will be qualified to sit for the Certified Public Accounting Examination, and upon successful completion of the examination be certified in the State of Florida. There is no additional experience requirement.

Decision Sciences and Information Systems

<table>
<thead>
<tr>
<th>Professor/Title</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>Enzo Valenzi, Professor and Acting Chairperson</td>
<td></td>
</tr>
<tr>
<td>Dinesh Batra, Associate Professor</td>
<td></td>
</tr>
<tr>
<td>Joyce J. Elam, Professor and James L. Knight Eminent Scholar</td>
<td></td>
</tr>
<tr>
<td>Sushil K. Gupta, Professor and Vice Provost</td>
<td></td>
</tr>
<tr>
<td>Christos P. Koulamas, Associate Professor</td>
<td></td>
</tr>
<tr>
<td>Jerzy Kyparissis, Professor</td>
<td></td>
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<tr>
<td>Tomislav Mandakovic, Professor</td>
<td></td>
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<tr>
<td>Krishnamurty Muralidhar, Associate Professor</td>
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<tr>
<td>Kenneth E. Murphy, Assistant Professor</td>
<td></td>
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<tr>
<td>Daniel Robey, Professor</td>
<td></td>
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<tr>
<td>Rajiv Sabherwal, Assistant Professor</td>
<td></td>
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<tr>
<td>Radhika Santhanam, Assistant Professor</td>
<td></td>
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<tr>
<td>Maung K. Sein, Associate Professor</td>
<td></td>
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<tr>
<td>Larry A. Smith, Associate Professor</td>
<td></td>
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<tr>
<td>Steve H. Zanakis, Professor</td>
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<tr>
<td>Peter J. Zegan, Instructor</td>
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The Department of Decision Sciences and Information Systems offers a concentration in the Master of Business Administration program.

Finance

<table>
<thead>
<tr>
<th>Professor/Title</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>Arun Prakash, Professor and Chairperson</td>
<td></td>
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<tr>
<td>Gary Anderson, Associate Professor</td>
<td></td>
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<tr>
<td>Joel Barber, Assistant Professor</td>
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<tr>
<td>Robert Bear, Professor</td>
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<tr>
<td>Gerald O. Blerwag, Professor, Ryder System</td>
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<tr>
<td>Chun-Hao Chang, Associate Professor</td>
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<tr>
<td>Robert T. Daigler, Associate Professor</td>
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<tr>
<td>Krishnan Dandapani, Associate Professor</td>
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<tr>
<td>Shahid Hamld, Assistant Professor</td>
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<tr>
<td>James Keys, Instructor</td>
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<tr>
<td>Simon Pak, Associate Professor</td>
<td></td>
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<tr>
<td>Ali M. Parhizgari, Professor and Director, MBA Program</td>
<td></td>
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<tr>
<td>Emmanuel Roussakis, Professor and Director, Certificate Programs</td>
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<tr>
<td>Lee Sevaid, Instructor</td>
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<tr>
<td>George B. Simmons, Distinguished Service Professor and Associate Dean</td>
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<tr>
<td>Michael Sullivan, Assistant Professor</td>
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<tr>
<td>William Welch, Associate Professor</td>
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<tr>
<td>John S. Zdanowicz, Professor and Director, Center for Banking and Financial Institutions</td>
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</tbody>
</table>

Master of Science in Finance

This graduate program leading to the degree of Master of Science in Finance (MSF) is offered primarily for students with an undergraduate business degree who want to concentrate in Finance at the graduate level. The MSF program is designed to extend analytical skills and decision-making abilities in the solution of problems related to obtaining and utilizing funds. Graduates will also have a sound working knowledge of current developments and opportunities as they pertain to financial institutions, capital markets, and the corporate enterprise.

Content and Structure

The program has a minimum of 36 semester hours (12 courses).

Group 1 - Common Body of Knowledge

All or some of the common body courses can be waived (without substitution) depending on the student's prior education. Students with a recent degree in Business Administration from a regionally accredited university should be able to waive most or all of the Common Body Courses. The areas covered under common body of knowledge are financial and cost accounting.
Management and International Business

Gary Dessler, Professor and Chairperson
Constance S. Bates, Associate Professor
Larry W. Cox, Assistant Professor
Herman Dorsett, Associate Professor
Dana L.arrow, Professor and Associate Dean
Earnest Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Joyce Harrigan, instructor
Richard M. Hodgdets, Professor
William T. Jerome, Distinguished University Professor
Willabeth Jordan, instructor
K. Galen Kroeck, Associate Professor
Jan B. Luytjes, Professor
Karl O. Magnusen, Associate Professor
Modesto A. Maique, Professor and University President
Sherry Moss, Assistant Professor
Stephen L. Mueller, Assistant Professor
Eleanor Polster, instructor and Coordinator, Weekend BBA
Antonio F. Pradas, instructor
Kannan Ramaswamy, Assistant Professor
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Donald Roames, instructor
John D. Sargent, Assistant Professor
Ronnie Silverblatt, Associate Professor
George Sutlja, Associate Professor
William M. Taggart, Professor
Anlysa S. Thomas, Assistant Professor
Enzo Valenzi, Professor
Mary Ann Von Glinow, Professor

Master of International Business

The Department offers a graduate degree, the Master of International Business, and the graduate level Certificate in International Business. (See Certificate Programs.) The Master in International Business is designed to prepare students who seek a career in some aspect of global business. The past few decades have seen a rapid expansion in the field of International trade and Investments and virtually no business entity today is exempt from worldwide competitive forces. The business person of the future must not only have a keen awareness of domestic business practices, but foreign business strategies as well. Furthermore, there must be a global political awareness and sensitivity in order to develop viable corporate strategies.

The program is designed in such a manner as to accommodate undergraduate business majors as well as non-business majors. The latter will have to meet the pre-core requirements which focus on the basic functional aspects of business and the related skills that might be necessary. Undergraduate business majors who have not taken the equivalent of any of the pre-core courses or whose degrees were awarded five or more years prior to their date of admission to the MIB at FIU also would have to meet these pre-core requirements. (See also 'transfer credit' earlier in this catalog.)

Pre-Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6245</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>ACG 6026</td>
<td>Accounting for Managers</td>
</tr>
<tr>
<td>MAR 6805</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Quantitative Methods in</td>
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<tr>
<td></td>
<td>Management Systems</td>
</tr>
<tr>
<td>MAN 6830</td>
<td>Organization Information</td>
</tr>
<tr>
<td></td>
<td>Systems</td>
</tr>
<tr>
<td>MAN 6830L</td>
<td>Organization Information</td>
</tr>
<tr>
<td></td>
<td>Systems Lab</td>
</tr>
<tr>
<td>ECP 6705</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>MAN 6569</td>
<td>Managerial Decision-Making</td>
</tr>
<tr>
<td>FIN 6428</td>
<td>Financial Management</td>
</tr>
</tbody>
</table>

Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6255</td>
<td>International Accounting</td>
</tr>
<tr>
<td>BUL 6850</td>
<td>International Commercial Law</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>International Finance</td>
</tr>
<tr>
<td>MAN 6603</td>
<td>Problems in Comparative</td>
</tr>
<tr>
<td></td>
<td>Management</td>
</tr>
<tr>
<td>MAN 6635</td>
<td>International Business Policy</td>
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<tr>
<td>MAR 6158</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MAN 6416</td>
<td>Corporate Negotiations</td>
</tr>
<tr>
<td>MAN 6608</td>
<td>International Business</td>
</tr>
</tbody>
</table>

In addition to the core, MIB candidates are required to take and pass a competency exam at the intermediate level in a commercial language other than English. All electives must be approved by the advisor and the chairperson of the department. In writing. All students must have a signed, approved program of study by the end of their first
semester of study. Students must receive their advisor’s approval prior to registering for any course.

Students may choose their six electives from those listed below so as to have a concentration or specialization within a particular area. For example, suggested sample course sequences for a concentration in International Banking is given below:

**International Banking Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6315</td>
<td>Commercial Banking</td>
</tr>
<tr>
<td>FIN 6325</td>
<td>Current Issues in Commercial Banking</td>
</tr>
<tr>
<td>FIN 6346</td>
<td>Credit Analysis</td>
</tr>
<tr>
<td>FIN 6625</td>
<td>International Bank Management</td>
</tr>
<tr>
<td>FIN 6626</td>
<td>International Bank Lending Policies and Practices</td>
</tr>
</tbody>
</table>

Other concentrations are possible. Please see the advisor.

**Suggested Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6625</td>
<td>International Bank Management</td>
</tr>
<tr>
<td>FIN 6626</td>
<td>International Bank Lending Policies and Practices</td>
</tr>
<tr>
<td>MAN 6615</td>
<td>International Labor-Management Relations</td>
</tr>
<tr>
<td>MAN 6675</td>
<td>Special Topics in International Business</td>
</tr>
<tr>
<td>MAN 6606</td>
<td>International Business Environment</td>
</tr>
<tr>
<td>REE 6935</td>
<td>Seminar in International Real Estate</td>
</tr>
<tr>
<td>ECO 5709</td>
<td>The World Economy</td>
</tr>
<tr>
<td>MAN 6601</td>
<td>International Management</td>
</tr>
<tr>
<td>MAN 6679</td>
<td>Master’s Project in International Business</td>
</tr>
<tr>
<td>MAN 6805</td>
<td>Managing for Total Quality</td>
</tr>
</tbody>
</table>

- Suggested sequence of courses to be taken assuming full-time status:

**Graduate with Business Degree**

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6255</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>MAN 6416</td>
<td>Elective</td>
</tr>
<tr>
<td>BUL 6850</td>
<td>MAN 6635</td>
<td>Elective</td>
</tr>
<tr>
<td>MAN 6603</td>
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</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>ACG 6255</td>
<td>Elective</td>
<td>MAR 6158</td>
</tr>
<tr>
<td>MAN 6603</td>
<td>MAN 6416</td>
<td>Elective</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>MAN 6635</td>
<td>Elective</td>
</tr>
</tbody>
</table>

- Elective

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 6850</td>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

The purpose of sequencing the courses is not only to assure having the appropriate prerequisites for the program, but also to build a class consciousness which may lead to an esprit-de-corps that can be of great value at some future time.

**Master of Science in Management**

The department is considering the addition of a Master of Science in Management degree program. Please contact the Department’s office at (305) 348-2791 for details.

**Marketing and Business Environment**

**Chairperson**

Barnett A. Greenberg, Professor and Chairperson

**Instructors**

Michael Barone, Assistant Professor
Mary Jane Burns, Assistant Professor
Deborah Cohen, Assistant Professor
Lucette Comer, Assistant Professor
Dennis J. Gayle, Associate Professor
Jonathan N. Goodrich, Professor
Robert Hogner, Associate Professor
Carl Kranendonk, Instructor
Paul Minnard, BMI Professor of Marketing
J.A.F. Nicholls, Associate Professor
Marta Ortiz, Associate Professor
Karen Paul, Professor
Lynda Reheem, Instructor
Sydney Roslow, Professor Emeritus
Bruce Seaton, Associate Professor
Philip Shepherd, Associate Professor
Kimberly Taylor, Assistant Professor
John Tsakilis, Associate Professor
Arturo Vasquez, Assistant Professor

The Department of Marketing and Business Environment offers a concentration in the Master of Business Administration program, the Graduate Certificate in Marketing, and the Graduate Certificate in Business Environment (see ‘Certificate Programs’).
Certificate Programs

Advanced Certificate in Accounting

The purpose of the certificate program is to provide a structured program of graduate level instruction for those who do not wish to enroll in a graduate degree program; who need to satisfy mandatory continuing professional education requirements of any state; and who need to satisfy post-baccalaureate course credits to quality for the CPA in Florida or any other state requiring a five year of education to sit for the CPA examination.

Admission

To be admitted to the certificate program, a student must have graduated from an accredited university degree program in accounting, or be a graduate of any other business discipline, provided that the student’s transcript shows a completion of at least nine semester hours in accounting courses beyond the principles level with grades of ‘B’ or higher. Each student’s transcript will be evaluated by an advisor to ensure that all deficiencies are satisfied.

Students applying for admission to the certificate program must submit current transcripts from all colleges or universities attended.

The certificate program consists of ten courses selected from the list below. However, students are allowed to attend classes in the program without completing the entire certificate program. None of these courses will be transferable for graduate credit in College of Business Administration degree programs.

Required Courses: (10)

- ACG 5137 Update of Current Standards and Principles of Financial Accounting 3
- ACG 5307 Advanced Managerial Accounting 3
- ACG 5507 Issues and Problems in Accounting for Nonprofit Entities 3
- ACG 5627 Systems Auditing 3
- TAX 5725 Tax Planning for Managers 3

Elective Courses: (15) (five courses) from the following:

- ACG 5256 International Dimensions
- ACG 5386 Controllership
- ACG 5395 Seminar in Managerial Accounting
- ACG 5546 Governmental Planning and Budgetary Accounting, with Cases
- ACG 5675 Operational Auditing
- ACG 5696 Seminar in Auditing
- ACG 5806 Seminar in Financial Accounting
- ACG 5905 Independent Study in Accounting and Auditing
- ACG 5936 Special Topics in Accounting and Auditing
- BUL 5105 Legal Environment of Business
- BUL 5601 Law for Accountants
- BUL 5662 Accountant’s Liability
- TAX 5066 Tax Research and Reporting
- TAX 5106 Corporate and Partnership Taxation
- TAX 5406 Taxation of Estates and Trusts
- TAX 5506 International Dimensions of Taxation
- TAX 5875 Seminar in Taxation
- TAX 5904 Independent Study in Taxation
- TAX 5936 Special Topics in Taxation

A 2.67 GPA must be attained for successful completion of the program and awarding of the certificate. Any course completed with less than a 2.0 GPA will not be accepted toward completion of the program and awarding of the certificate.

Banking Certificate

The CIB (Certificate in Banking) is designed for practicing bank managers and bank employees. The core program consists of four undergraduate or graduate Finance courses. Upon successful completion of the four course sequence, a Certificate signed by the Dean of the College of Business Administration will be awarded.

Participants in the CIB Program must meet certain admission requirements. In general, those intending to take undergraduate level courses must have an Associate of Arts Degree or its equivalent, and must meet the other lower division preparation requirements of the College. Participants planning to take graduate level courses must hold a Bachelor’s degree, submit a satisfactory score on the Graduate Management Admissions Test, provide transcripts of all undergraduate work, and meet all admission requirements of the College’s graduate programs.

Program requirements

- or FIN 6428 Financial Management 3
- FIN 6426 Financial Management Policies
- FIN 6246 Financial Markets and Institutions 3
- FIN 6315 Commercial Banking 3
- FIN 6346 Credit Analysis

Applicants who are interested in pursuing a Master’s degree in Finance should take FIN 6426, FIN 6246, FIN 6315, and FIN 6346 rather than FIN 3414, FIN 4303, FIN 4324, and FIN 4345.

Graduate Certificate in Business Environment

The purpose of the Certificate Program in Business Environment is to provide a graduate-level educational experience for those students who desire to further familiarize themselves with the scope, structure, and challenges of the business environment, without wishing to pursue a Master’s degree program. Accordingly, the audience for this certificate consists of managers who need to satisfy continuing educational requirements or individual interests, within the areas of public issues management, business ethics, codes and practices, social audit development, environmental regulation, and international aspects of the business environment.

To be admitted in the Certificate Program in Business Environment, a student must meet the general requirements for graduate study in the College of Business Administration. All students must have taken MAN 3701 (Business and Society) or an accepted substitute at the undergraduate level. The Certificate in Business Environment consists of five (5) courses as follows:
Required Courses

MAN Seminar in Public Issues Management 3
MAN 6715 Business Environment and Public Policy 3
MAN 6606 International Business Environment 3
MAN Special Topics in Business Environment 3
MAN Independent Study in Business Environment 3

International Bank Management Certificate

The Certificate in International Bank Management (CIBM) is designed to train existing and future bankers in the areas of international banking policy, practice, and technique. Its interest is to provide an interface between the domestic and international side of banking for bank managers. This certificate is not open to finance majors.

Participants in the CIBM must meet the admission requirements listed for the Certificate in Banking Program.

Required Courses

FIN 6487 Financial Risk Management-Financial Engineering 3
or
FIN 6426 Financial Management Policies 3
FIN 6315 Commercial Banking 3
or
FIN 6325 Current Issues in Commercial Banking 3
or
FIN 6346 Credit Analysis and Loan Evaluation 3
FIN 6636 International Finance 3
FIN 6625 International Bank Management 3

Certificate in International Business

A Certificate program is available to graduate students wishing to acquire an in-depth understanding of international business, but who find it unnecessary or inconvenient to enroll for a graduate degree program. Such students may already have the MBA degree, or an undergraduate business degree.

Students in the Certificate in International Business program must meet the general admission requirements for graduate study in the College of Business Administration, and satisfactorily complete an approved program of study consisting of four courses, as follows:

MAN 6608 International Business 3
MAN 6635 International Business Policy 3

and two graduate international business courses approved by the Chairperson of the Department of Management and International Business.

Graduate Certificate in Marketing

The purpose of the Graduate Certificate Program in Marketing is to provide a structured program in Marketing at the graduate level of instruction. The Program is primarily designed for those students who do not wish to enroll in a graduate degree program; managers who need to satisfy continuing professional education requirements; and marketing executives who wish to pursue studies in the areas of marketing, international marketing and/or strategic marketing. All courses must be taken at Florida International University. Students enrolled in the MBA program are not eligible for this certificate.

To be admitted in the Graduate Certificate Program in Marketing, a student must meet the general requirements for graduate study in the College of Business Administration. Students without a background in Marketing are required to take:

MAR 6805 Marketing Management 3

Required Courses

MAR 6646 Advanced Marketing Research 3
MAR 6506 Advanced Consumer Behavior 3
MAR 6816 Strategic Marketing Management 3

To complete the Certificate Program in Marketing, the student can choose two out of the following courses:

MAR 6158 Advanced International Marketing 3

Professional Development Certificate Programs

Certificate in Managing Quality Health Care Systems

Combining study of the functional areas of management with development of human relations skills, this program prepares managers for success in today's health care environment. This Certificate was created for the health care manager whose clinical education did not prepare him/her for managing a rapidly changing health care industry. In addition, it prepares participants to address tomorrow's challenges.

Quality standards mandated by the Joint Commission for Hospital Accreditation is an overarching theme. A community advisory council of health care executives provides continuous input to assure the blending of theory and practice in the educational experience. This two semester program qualifies for several professional continuing education units, an earned Certificate, and limited consideration for credit in certain Colleges and Schools within FIU.

Training and Human Resource Development Certificate

Based in academic theory and models, this program uses hands-on techniques and applications that build the competencies to operationalize its conceptual framework. This two-semester program is the most comprehensive non-credit program for adult educators in the United States. In addition to an earned Certificate and C.E.U.'s, the program qualifies for credit consideration in several University schools. Recognized by the American Society for Training and Development, the program was showcased in its April, 1989 issue of the Training and Development Journal. The Certificate sets a standard for professionalism for South Florida trainers.

Personnel Administration Certificate

Created for the practitioner with up to five years experience in a personnel or human resource department, this Certificate program meets once a week for 11 weeks. It covers the
functions of personnel administration with emphasis on the ever-changing legal issues affecting its practice. The program surveys the field and concentrates on skill building in the areas of interviewing, using and developing appropriate forms, and building a professional network. A Certificate as well as a.E.U.'s may be earned.

Course Descriptions

Definition of Prefixes:
ACG-Accounting; BAN-Banking; BUL-Business Law; CIS-Computer and Information Systems; GEB-General Business; FIN-Finance; MAN-Management; MAR-Marketing; QMB-Quantitative Methods in Business; RML-Real Estate; RMI-Risk Management and Insurance; TAX-Taxation.

F-Fail semester offering; S-Spring semester offering; SS-Summer semester offering.

Departmental or School/College Designation:
AC - Course taught by School of Accounting
BA - Interdepartmental course taught by College of Business Administration
DS - Course taught by Department of Decision Sciences and Information Systems
EC - Course taught by Department of Economics, College of Arts and Sciences
FI - Course taught by Department of Finance.
MA - Course taught by Department of Management and International Business
ME - Course taught by Department of Marketing and Business Environment
MS - Course taught by Department of Mathematical Sciences, College of Arts and Sciences


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 auditing. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5395 Seminar in Managerial Accounting (AC) (3). An in-depth study of selected areas of managerial accounting. Prerequisite: ACG 4341 or equivalent and Permission of Accounting certificate program advisor.

ACG 5507 Issues and Problems in Accounting for Non-Profit Entities (AC) (3). Study and analysis of accounting, reporting, and control standards and practices of non-profit organization - including accounting for governments, hospitals, universities, churches, and others. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5516 The Environment of Government Accounting (AC) (3). Basic public administration emphasizing governmental processes with which governmental accountants and auditors come into contact. Includes legislative and administrative activities and operating functions having high accounting and auditing involvement. Prerequisite: Permission of accounting certificate program advisor.

ACG 5518 Historical and Comparative Government Accounting (AC) (3). Research and reporting on subjects in the history of, or on comparative aspects of, government accounting. Prerequisite: Permission of accounting certificate program advisor.

ACG 5519 Contemporary Issues in Government Accounting (AC) (3). Research and reporting on current issues related to government accounting. Prerequisite: Permission of accounting certificate program advisor.

ACG 5545 Analysis of Governmental Financial Reports (AC) (3). Describes content of government financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress Prerequisites: Permission of accounting certificate program advisor.
ACG 5546 Governmental Planning and Budgetary Accounting with Cases (AC) (3). Budgeting in government environments emphasizing formulation based on accounting and auditing input. Budget execution and analysis of deviations of actual from budgets; study of ZBB, PPBS, and MBO systems and their behavioral and accounting bases. Prerequisites: Permission of accounting certificate program advisor.

ACG 5596 Accounting for Specialized Governmental and Nonprofit Entities (AC) (3). Survey course by guest lecturers covering detailed accounting concepts, procedures, and reporting for enterprise fund entities, educational entities, and unique types of internal service funds. Prerequisites: Permission of accounting certificate program advisor.

ACG 5627 Systems Auditing (AC) (3). Principles and procedures of auditing systems of information, including the function, approach, and techniques of systems auditing and the evaluation of systems controls. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5675 Operational Auditing (AC) (3). Examines operational auditing as a professional discipline for testing and evaluating totality of planning and operating controls; particular attention to development, selling and implementation of recommendations for operating improvement and cost containment. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5696 Seminar in Auditing (AC) (3). An in-depth study of recent developments in auditing. Prerequisite: ACG 4651 or equivalent and permission of Accounting certificate program advisor.

ACG 5806 Seminar in Financial Accounting (AC) (3). An in-depth study of recent developments in financial accounting. Prerequisite: ACG 4111 and permission of Accounting certificate program advisor.

ACG 5846 Statistical Methods in Accounting and Auditing (AC) (3). Formulation, analysis and implementation on a microcomputer of mathematical models in financial and managerial accounting and auditing. Prerequisite: Permission of Accounting certificate advisor.

ACG 5905 Independent Study in Accounting and Auditing (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisites: Written permission of instructor, accounting certificate program advisor, School Director, and Dean.

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 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. 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. (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 healthcare, transportation, financial institutions real estate and construction. Prerequisites: ACG 4111 or equivalent. ACG 4651 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 relationship 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 controllership, 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, S)

ACG 6445 Accounting Information Systems Analysis and Design (AC) (3). Accounting applications of information systems analysis and design concepts, methods, and tools; requirements, design, control, and prototyping of accounting information systems. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. (S)

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. (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, S)

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 an undergraduate accounting degree.

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, S)

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 4431 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 7886 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 Accounting certificate program advisor.


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 5810 Legal Environment of Business (AC) (3). Studies the importance of law and legal institutions in commerce workings of administrative law, various aspects of employment 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 a graduate program in the School of Accounting or permission of the 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 a graduate program in the School of Accounting, or permission of the 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.S)

BUL 6850 International Commercial 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.S.S)

BUL 6906 Independent Study in Business Law (AC) (1-6). 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.

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.S)

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.S)

FIN 5418 Working Capital Management (Fl) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 3414 or FIN 6456. (on demand)

FIN 5495 Leasing and Mergers (Fl) (3). Discussion-oriented course will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and lending decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisite: FIN 3414 or FIN 6456, or equivalent. (on demand)

FIN 6246 Financial Markets and Institutions (Fl) (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 (F.S.S)

FIN 6315 Commercial Banking (Fl) (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 (F)

FIN 6325 Current Issues in Commercial Banking (Fl) (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 6315 or equivalent. (on demand)

FIN 6346 Credit Analysis (Fl) (3). This course examines how the accounting framework is integrated with tools and techniques for the analysis and interpretation of financial state-
ments. Evaluation of risk in domestic and foreign loans and the pricing of credit facilities. Prerequisite: FIN 6428. (S)

FIN 6426 Financial Management Policies (Fl) (3). The selection and management of current and permanent assets to achieve corporate objectives. The selection and management of alternative sources of funds to obtain the optimal capital structure. Prerequisite: FIN 6428 or equivalent. (on demand)

FIN 6428 Financial Management (Fl) (3). In-depth examination of asset, liability and capital structure management, with emphasis on capital budgeting techniques; risk valuation; working capital management; and methods of short-term, intermediate, and long-term financing. Prerequisite: FIN 6426 or equivalent. (F, S, SS)

FIN 6436 Capital Budgeting and Long Term Resource Allocation (Fl) (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 6456 or equivalent. (F)

FIN 6446 Competitive Strategy (Fl) (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. Prerequisite: FIN 6456. (S)

FIN 6455 Financial Modeling and Forecasting (Fl) (3). An introduction to Financial Modeling and Forecasting. Emphasis is on computer models and forecasting the financial variables. Prerequisite: Permission of instructor and FIN 6456. (on demand)

FIN 6456 Quantitative Methods in Financial Analysis (Fl) (3). The applications of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: FIN 6428 or equivalent. (F, S, SS)

FIN 6487 Financial Risk Management - Financial Engineering (Fl) (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 an optimal risk management program. Prerequisite: FIN 6456. (S)

FIN 6508 Financial Futures and Fixed Income Investments (Fl) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Hedging, speculative activity, and other risk-return procedures are discussed. Prerequisite: FIN 6456 or equivalent. (F)

FIN 6516 Securities Analysis (Fl) (3). An analysis of contemporary securities markets and their operations. The determinants of the risk-reward structure of equity and debt securities. Prerequisite: FIN 6456 or equivalent. (F, S, SS)

FIN 6525 Portfolio Management (Fl) (3). Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 6456 or equivalent. (F)

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. (S)

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. (on demand)

FIN 6638 International Finance (Fl, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and under-developed 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. (F, S, SS)

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 6456 or equivalent. (S)

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. (F, S, SS)

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. (F, S, SS)

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. (F, S, SS)

FIN 7507 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 instructor. (on demand)

FIN 7528 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 instructor. (on demand)

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 instructor. (on demand)
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 instructor. (on demand)

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 instructor. (on demand)

FIN 7809 Financial Theory II (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 instructor. (on demand)

FIN 7810 Financial Theory III (Fl) (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 instructor. (on demand)

FIN 7811 Seminar in Financial Markets and Institutions (Fl) (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 instructor. (on demand)

FIN 7812 Seminar in Options and Contingent Claims (Fl) (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 instructor. (on demand)

FIN 7816 Seminar in Portfolio Theory (Fl) (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 instructor. (on demand)

FIN 7818 Foundations of Financial Models (Fl) (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 instructor. (on demand)

FIN 7845 Statistical Methods in Finance I (Fl) (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. (on demand)

FIN 7846 Statistical Methods in Finance II (Fl) (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. (on demand)

FIN 7855 Financial Economics I (Fl) (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 instructor. (on demand)

FIN 7856 Financial Economics II (Fl) (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 instructor. (on demand)

GEB 6445 The Legal Environment of Business (BA) (3). A study of federal and state regulatory laws, encompassing aspects of the judicial process, legal/economic aspects of business organizations, international legal environment, and legal/political elements of business ethics. (F,S)

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 after the first tier of coursework is complete. Conducted on an individual basis under the supervision of a faculty member. Prerequisite: Graduate standing. (on demand)

GEB 7936 Doctoral Seminar in Business Administration (BA) (1). Weekly informal seminars to discuss current issues, educational approaches, and career management for Ph.D. students in Business Administration. (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 1 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. Prerequisites: 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. Prerequisites: 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 6205 Database Management (DS) (3). The course addresses techniques for structuring and managing data in organizations. Discusses data concepts, data modeling, database requirements definition, con-
ceptual, logical, and physical design, data administration, and distributed database management. Prerequisite: MAN 6830. (S)

ISM 6225 Global Applications of Information Technology (3). Examines information technology use in the international arena, e.g., for communication within a multinational organization, 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 multinational corporations; 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. (S)

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 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 case studies. 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. Emphasis on the practical. (F)

ISM 7306 Seminar on Managing Information Resources (DS) (3). Theory and research on the managerial viewpoint on information processing functions within an organization. Relationships 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 systems 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 6051 Organization and Management Process (MA) (3). Analysis of organizations including the evaluation 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 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. Prerequisite: Intuitive Experience Log 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 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 organizational 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 resource 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 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 6206, 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: MAN 6569. (F.S)

MAN 6525 Managing for Total Quality (3). Addresses underlying management assumptions, methods, tools, culture and philosophy of total quality management. (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 guests speakers. Prerequisite: Graduate students (or CBA certificate students). (F)

MAN 6601 International Management (MA) (3). Graduate seminar focusing on management issues confronting the multinational enterprise. Includes basic trade theory; tariffs and trade barriers; organizational transfer; foreign exchange; international financial management; export-import procedures; comparative business customs; personnel management; and institutions affecting the multinational manager. (F.S.SS)

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. (F)

MAN 6608 International Business (MA) (3). International variables as they affect managers. Theoretical constructs and their application to specific problems in international business. (F.S.SS)

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 con-
tingency 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 6605 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 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 skills 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 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 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 instructor. Corequisite: MAN 7148L. (S)

MAN 7148L Intuition in Management Lab (1). Exercises and practices for developing intuition. Assessment and measurement of intuitive styles. Audio visual presentations on various topics in intuition. Prerequisite: Permission of instructor. Corequisite: MAN 7148. (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 multidomestic 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 and design strategies including multivariate techniques and multidimensional scaling. (S)

MAR 6075 Current Issues in Marketing I (ME) (3). Intensive study of various topics 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 Advanced Promotional Strategy (ME) (3). The course focuses on planning, problem-solving, and decision-making, as they apply to promotion programs. Primary emphasis is on advertising, with discussion of the role of promotion in relation to other elements of the marketing program. Prerequisite: MAR 6805. (S)

MAR 6406 Advanced 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. (F)

MAR 6506 Advanced 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 Advanced Marketing Research (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 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 6705.

MAR 6805 Marketing Management (ME) (3). A study of analysis and application of theory and problem solving in marketing management. 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. (F, S, S)

MAR 6816 Strategic Marketing Management (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: MAR 6805 or equivalent. (F, S)

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 7246 Seminar in International Marketing (ME) (3). Analyzes distinctive characteristics and trends in foreign markets. Explores alternative international marketing strategies, considering critical environmental differences among countries.

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 instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the dynamic interaction between marketing management and the corporate environment. Encourages development of an ability to design and implement effective marketing strategies.

MAR 7667 Seminar in Marketing Management (ME) (3). Analytical approaches to strategic and tactical marketing and public policy decisions. Emphasis is on relevant concepts from behavioral sciences as applied to marketing decisions.

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 (MA) (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 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 management 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, dissolutions, reorganizations, asset disposals, 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 non-resident aliens, as well as those
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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). An individual conference supervised readings, reports on personal investigations. Prerequisite: Written permission of 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. Prerequisites: 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: TAX 6065 and 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 6065 and TAX 6105, and admission to a graduate program in the School of Accounting or permission of the School Director. (F,S,SS)

TAX 6205 Partnership Taxation (AC) (3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited). Prerequisites: TAX 6065 and 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 and federal gift tax provisions. Prerequisites: TAX 6065, and admission to a graduate program in the School of Accounting or permission of the School Director. (F,5)

TAX 6415 Fiduciary Accounting and Taxation (AC) (3). The study of the income taxation of estates, trusts, 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: TAX 6065 and 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: TAX 6405 and admission to a graduate program in the School of Accounting or permission of the School Director. (S)

TAX 6505 International Taxation I (AC) (3). Federal income tax provisions applicable to non-resident aliens and foreign corporations. Prerequisites: TAX 6065 and 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: TAX 6065 and 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: TAX 6065 and 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: TAX 6065 and 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 sales, capital gains and losses, and non-recognition provisions for transactions in property with special emphasis on personal property transactions and securities investments. Prerequisites: TAX 6065 and admis-
sion to a graduate program in the School of Accounting or permission of the School Director. (S.S.)

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: TAX 6065 and TAX 6805 and 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 via a legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

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.

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Taylor, Kimberly, Ph.D. (University of Pennsylvania), Assistant Professor, Marketing and Business Environment

Thomas, Arlysya, S. Ph.D. (Virginia Polytechnic and State University), Assistant Professor, Management and International Business

Tiras, Samuel, Ph.D. (The Ohio State University), CPA, Assistant Professor, Accounting

Tsaklis, John, Ph.D. (University of Mississippi), Associate Professor, Marketing and Business Environment

Turner, Jerry, Ph.D. (Texas A & M University), CPA, Assistant Professor, Accounting

Uliss, Barbara T., Ph.D. (Case Western Reserve University), CPA, CDP, Assistant Professor, Accounting

Valenzi, Enzo R., Ph.D. (Bowling Green State University), Professor, Management and International Business, and Acting Chairperson, Decision Sciences and Information Systems

Vasquez, Arturo, Ph.D. (Texas Tech University), Assistant Professor, Marketing and Business Environment

Von Glinow, Mary Ann, Ph.D. (The Ohio State University), Professor, Management and International Business

Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance

Wheatley, Clark, Ph.D. (Virginia Polytechnic Institute), CPA, Assistant Professor, Accounting

Wiskeman, Richard H., Jr., MBA (University of Miami), CPA, Instructor, Accounting

Wrieden, John A., J.D. (George Mason University), Instructor, Accounting

Wyman, Harold E., Ph.D. (Stanford University), Professor, Accounting, and Dean
Yeaman, Dorla, J.D. (University of Tennessee), Associate 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 Finance and Director, Center for Banking and Financial Institutions
Zegan, Peter J., M.S. (University of Florida), Instructor, Decision Sciences and Information Systems
College of Education
College of Education

The College of Education seeks through its mission to empower professionals by enabling them to acquire the knowledge, skills, and dispositions necessary to exercise control over their lives. This charge further entails the College’s assisting professionals to understand that whatever their differences, people have an interconnectedness through common needs and aspirations; they can relate to each other in helpful and supportive ways; and can celebrate their diversity. The critical thrust in the College of Education’s mission is thus to facilitate change by provoking in professionals an orientation, awareness, and commitment to improving the human condition.

To realize its mission and facilitate learning and change within diverse populations and environments 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.

To support its mission, the College is organized into six separate but related departments:
- Educational Leadership and Policy Studies
- Educational Psychology and Special Education
- Elementary Education
- Educational Foundations and Professional Studies
- Health, Physical Education, and Recreation
- Subject Specializations

Applicants to the College’s programs should carefully examine the choices of major concentrations and program objectives. Because there are occasional revisions of College of Education 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 advisement is available by telephone: (305) 348-2768 for University Park, (305) 940-5820 for North Campus. Broward residents may call (305) 523-4422 for North Campus or 475-4156 for the Broward Program. Dade residents may call (305) 948-6747 for the Broward Program. Specific program advisement is available by prearranged personal appointment with advisors at all locations.

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.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

All stated admission requirements are to be considered minimums. 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 adequate progress.

Master’s, 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
- Health Occupations Education
- Home Economics Education
- Human Resource Development
- International Development Education
- Mathematics Education
- Modern Language Education
- French
- Spanish
- Music Education
- Parks and Recreation Management
- Leisure Service Management
- Recreational Therapy
- Physical Education
- Physical Education
- Sports Management
- Reading Education
- Science Education
- Social Studies Education
- Special 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
- Urban 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. 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 two workshop courses may be included in a master’s degree program.

Alternate Certification Tracks
Applicants who do not hold or qualify for Florida Teacher Certification may be eligible for the Alternative Track Master of Science Degree described in the Subject Specializations, Educational Psychology Special Education and/or the Elementary Education section.

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 work at the University beyond the Master’s degree. However, specific programs may require more than the minimum number of hours and may include 6 semester hours of thesis if that option is chosen.

Admission requirements and transfer of credit are the same as for the master’s programs. Other program requirements are contained in the program descriptions which may be obtained from each program leader.

Doctor of Education Degree Program Specialties
Doctor of Education degree programs are offered in the following specialties:
- Educational Administration and Supervision
- Adult Education and Human Resource Development
- Vocational and Technical Education Leadership Track
- International and Intercultural Development Education Specialty
- Curriculum and Instruction
- Art Education
- Early Childhood Education
- Elementary Education
- English Education
- Instructional Leadership
- International and Intercultural Development Education Specialty
- Modern Language Education
- Mathematics Education
- Music Education
- Reading Education
- Science Education
- Social Studies Education
- Teaching English to Speakers of Other Languages (TESOL)
- Exceptional Student Education
- Community College Teaching

Advisement for these programs may be obtained by calling the appropriate Department Office or by contacting the Coordinator of Doctoral Programs at (305) 348-3202. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by examining program descriptions in this catalog.

Multidisciplinary Doctoral Program
A multidisciplinary doctoral program is offered in Broward County at the University Tower in downtown Ft. Lauderdale. The program has three programmatic thrusts: Adult Education and Human Resource Development, Community College Teaching, and Curriculum & Instruction. The program is innovative in that it combines rigorous doctoral study with action oriented research. It is designed to facilitate community and organizational change through education change strategies and in a meaningful and creative manner fulfill the mission of the College of Education. The program is offered in a format to make it attractive and available to professionals in southeastern Florida. Students interested in this program should call (305) 475-4156.

Fingerprint Requirement
State of Florida Teacher Certification, in addition to other criteria, requires all applicants to be fingerprinted and checked by the FBI. Some school districts also require a fingerprint check for student interns and/or student teachers. Students with a history of felony arrests may wish to consider this carefully, and seek advice from an advisor, before applying to programs in the College.

North Campus and Broward Program
The College of Education has programs of studies at the North Campus and University Tower in Ft. Lauderdale. Students interested in information regarding the North Campus should call the College of Education at (305) 940-5820 or (305) 523-4422. (Broward line).
Educational Leadership and Policy Studies

Kingsley Banya, Associate Professor and Chairperson, Curriculum and Instruction: Instructional Leadership

Peter J. Cistone, Professor, Educational Leadership

Joseph Cook, Professor, Community College Teaching

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, Assistant Professor, Adult Education and Human Resource Development

Paul D. Gallagher, Associate Professor, Educational Research, and Vice President, University Relations and Development

Lorraine R. Gay, Professor, Educational Research

Barry Greenberg, Professor, Educational Research, Community College Teaching

Mary L. Pankowski, Professor, Adult Education and Human Resource Development and Vice President, North Campus and University Outreach

Sarah W. J. Peli, Professor, Educational Leadership

Judith J. Slater, Assistant Professor, Curriculum and Instruction: Instructional Leadership

Douglas H. Smith, Associate Professor, Adult Education and Human Resource Development

The Department of Educational Leadership and Policy Studies offers following degree programs:

Master of Science
Adult Education
Educational Leadership
Human Resource Development

Education Specialist
Curriculum and Instruction
Instructional Leadership
Educational Leadership

Doctor of Education
Administration and Supervision
Adult Education and Human Resource Development
Curriculum and Instruction
Instructional Leadership
Community College Teaching

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 minimums. 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.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Master of Science Degree Programs in Adult Education and Human Resource Development

The Graduate Program 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/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 in relation to an individual's specific interests, needs, and career goals.

Two master's degree programs are offered: Human Resource Development and Adult Education.

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 36 hours, with 24 hours (eight courses) required, and a minimum of 12 hours (four courses) of elective courses.

Human Resource Development (HRD)

Required Program: (36)

Required Core: (24) (Courses are listed in required sequence)

- ADE 5081 Introduction to Adult Education and Human Resource Development 3
- ADE 5385 Adult Teaching and Learning 3
- ADE 5383 Instructional Analysis and Design 3
- ADE 6286 Instructional Development and Implementation 3
- ADE 6180 Organizational and Community Processes in AE/HRD 3
- ADE 6260 Management of AE/HRD Programs 3
- AED 6945 Internship in AE or HRD 3
- EDF 5481 Analysis and Application of Education Research 3

Advised Electives 12

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 30 hours, with 24 hours (eight courses) required, and a minimum of 6 hours (two courses) of elective courses.

Required Program: (30)

Required Core: (15):

- ADE 5081 Introduction to Adult Education and Human Resource Development 3
- ADE 5385 Adult Teaching and Learning 3
Master of Science in Educational Leadership

The Master of Science degree program in Educational Leadership consists of courses and experiences designed to develop entry level competencies for persons seeking State of Florida certification in Educational Leadership. The program comprises the Florida Educational Leadership core curriculum and the competencies for high-performing principals identified by the Florida Council on Educational Management. Topics specific to non-public school administration may also be elected.

Admission to the program requires that the candidate meet criteria established by the Board of Regents for graduate study and other additional criteria established by the program faculty.

To become certified in Educational Leadership all candidates must successfully complete the Florida Educational Leadership core curriculum and pass the Florida Educational Leadership Examination.

Required Program: (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 6061</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6192</td>
<td>Leadership in Education</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>EDA 6242</td>
<td>School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6271C</td>
<td>Microcomputer Application for Administrators</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Electives 6

Six semester hours must be earned in one of the following areas: Early Childhood, Middle School, or Secondary School curriculum and/or instruction for state certification. The selection of courses to meet this requirement requires the approval of a faculty advisor.

Educational Specialist in Educational Leadership

The Educational Specialist program in Educational Leadership is designed to build upon the educator's master's degree preparation and professional experience. The program may include coursework for state certification in Educational Leadership. The program requires the completion of a minimum of 36 semester hours beyond the masters.

Admission Requirements

Applicants must hold a current regular Florida teaching certificate or possess such prior to award of the degree. 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.

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 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 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. 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.

Research and Statistics Component of Doctoral Programs

A research requirement of 12 semester hours, taken in the order listed, is common to all College of Education doctoral programs.

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 6403C  Quantitative Foundations of Educational Research 3

EDF 6475  Qualitative Foundations of Educational Research 3

Students must complete course pre-requisites prior to enrolling in courses with pre-requisites.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Professional Education Requirement of Doctoral Programs

EDF 7937  Advanced Topics in Education 3

1All doctoral students must enroll in EDF 7937 within their first year of admission.

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.

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 doctoral committee.

Required Core (18-24)

Adult Education and HRD 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

EDF 7937  Advanced Topics in Education 3

1All doctoral students must enroll in EDF 7937 within their first year of admission.

Elective Core (9-15)

Elective Core varies according to the participants' background and professional goals.

Research and Statistics (12)

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/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).

Community College Teaching

The doctoral program in Community College Teaching is designed to provide the opportunity for specially selected students to enhance instructional and research skills related to the continuing development and operation of the community college or other higher education institution. 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 the community college, particularly in the development of innovative instructional approaches.

Program of Study

Post-baccalaureate coursework minimum requirements for the degree, while subject to individual variations, consist of the following:

Community College/Higher Education Core: (21)

EDH 7065  Higher Education: Philosophical and Historical Perspectives 3

EDH 7204  Higher Education: Community College 3

EDH 7307  Higher Education: Instructional Methods 3

EDH 7225  Higher Education: Developmental Programs 3

Additional courses in Education that will enhance the student's instructional abilities and skills.

Professional Education Core

EDF 7937  Advanced Topics in Education 3

1All doctoral students must enroll in EDF 7937 within their first year of admission.

Instructional Field Specialty Area: (30)

The instructional field consists of 30 graduate hours related to the subject which is or will be taught in the community/junior college.

Previous graduate coursework, including work completed as part of a master's degree program may be applied toward the doctoral program requirements.

Cognate Area: (16)

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 should assist the student in developing into a well-rounded community college teacher, one who is able to adapt to changing conditions of instruction.

**Research and Statistics: (12)**
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 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.

**Core Courses: (15)**

<table>
<thead>
<tr>
<th>Course</th>
<th>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><strong>Professional Education Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in Education¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹All doctoral students must enroll in EDF 7937 within their first year of admission.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

**Specialty Area: (36)**
The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, international and intercultural development education, 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 coursework 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. All doctoral students must enroll in EDF 7937 within their first year of admission.

**Research and Statistics: (12)**

**Candidacy Examinations and Advancement to Candidacy**
The student must successfully pass candidacy examinations covering coursework 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 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 to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including Summer semester).

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 admission requirements stated, the applicant must:

1. Provide evidence of three years or more of successful and appropriate professional experience.
2. Engage in an interview with program faculty.
3. Receive a positive recommendation by 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:

**Required Core Courses** 24
Professional Education Core
EDF 7937 Advanced Topics in Education

1 All doctoral students must enroll in EDF 7937 within their first year of admission.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Guided Electives in Educational Administration and Supervision 12
Minor/Cognate Area 15
Research and Statistics 12

Upon completion of the coursework, each student must pass a candidacy examination and be advanced to candidacy.

Dissertation (24)
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. A minimum of six credit hours of dissertation are to be undertaken each semester during the time that the dissertation is being prepared. Continuous enrollment in dissertation work is required (including Summer semester).

More specific information concerning the doctoral program is available from program faculty.

Professional Certificate Programs Adult Learning Systems
The professional certificate in adult learning systems is a comprehensive and integrated university-based option to provide professionals with skills and training for adult education programmers. The non-degree certificate program may be pursued in conjunction with a bachelor's or master's degree; or beyond the bachelor's or master's degree; or independent of the pursuit of a degree. The latter option is for persons having special responsibilities and experiences in the field of Adult Education and Human Resource Development.

Required Program: (20)
ADE 5383 Instructional Analysis and Design 3
ADE 5385 Adult Teaching and Learning 3
ADE 6180 Organizational and Community Processes in AE/HRD 3
ADE 6925 Workshop in Adult Education and Human Resource Development 1-6
ADE 6930 Seminar in Adult Education and Human Resource Development 1-3
ADE 6935 Special Topics in Adult Education and Human Resource Development 1

To be admitted to the program the student must:
1. Hold or be seeking a bachelor's or master's degree from an accredited institution;
2. Have submitted three letters of recommendation describing ability to engage in and profit from such a program of studies;
3. Submit a personal statement of interests and goals which relate to Adult Education and Human Resource Development.

Applicants will develop a project or problem-oriented learning contract during the initial workshop to be pursued throughout the program. Contracts will be refined as the student progresses through the first part of the program of studies. The culminating activity, the Seminar, ADE 6930, will require the student to complete, share, and evaluate the tasks and activities within the individual learning contract.

Educational Leadership
The Certificate Program in Educational Leadership is designed for students who have a master's degree in a field of education other than Educational Leadership. The coursework leading to the certificate specifically addresses the competencies assessed in the Florida Educational Leadership Examination and constitutes the "modified Florida program in educational leadership" (SBER 6A-4.0082) at the University. The program may be used to satisfy part of the requirements of the Florida Department of Education for certification in Educational Leadership.

Required Program: (24)
EDA 6192 Leadership in Education 3
EDA 6195 Communication in Educational Leadership 3
EDA 6232 School Law 3
EDA 6242 School Finance 3
EDA 6271C Microcomputer Applications for Administrators 3
EDA 6503 The Principalship 3
EDS 6115 School Personnel Management 3
Guided Electives in Curriculum and Instruction 3
At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

**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, multi-cultural 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, 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 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 hours), or both, are required for a candidate to be admitted via regular procedures.

Regardless of the GPA, GRE scores must be submitted and have been attained within a three year period prior to the time of admission. Students may transfer a maximum of nine semester hours earned at another institution into the program provided the course work taken does not exceed a three year time period. Students are allowed a maximum of six years from the date of initial enrollment to complete program requirements. Periods of non-continuous enrollment do not count against the six year period provided a "Request for program Interruption" is approved by the Graduate Admissions Committee.

Given the unique nature of the fields of counseling and school psychology requiring mastery of cognitive skills and demonstration of relevant and appropriate interpersonal skills, the faculty retains the right to "counsel out" of the program and/or not recommend for internship placement any student whose level of interpersonal competence is considered incompatible with that required for effective functioning as a counseling or school psychology practitioner.

All stated admission requirements are to be considered minimums. 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. The deadline for receipt of completed applications for Fall semester admissions is March 1 for the Community Mental Health Counseling, School Psychology and School Counseling programs. Allow 6-8 weeks for application to be processed by the Admissions Office and forwarded to the Department prior to the March 1 deadline.

All programs preparing school personnel are approved by the State of Florida and allow students completing the program to be eligible for certification by the State.
Community Mental Health Counseling

Required Program: (60)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6700</td>
<td>Professional Problems in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5400</td>
<td>Introduction to Counseling</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>3</td>
</tr>
<tr>
<td>MHS 6428</td>
<td>Counseling the Culturally Different</td>
<td>3</td>
</tr>
<tr>
<td>Advised Electives</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

1 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.

Second Year: (33)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6630</td>
<td>Program Evaluation in Counseling and Education</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 6428</td>
<td>Counseling the Culturally Different</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6930</td>
<td>Special Topics in Counseling and School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6800</td>
<td>Advanced Practicum in Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6820</td>
<td>Supervised Field Experience Counseling</td>
<td>10</td>
</tr>
<tr>
<td>Advised Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Students who do not possess a regular Florida Department of Education teaching certificate must enroll for 12 semester hours credit distributed as follows: Sociological Foundations of Education (3); Psychological Foundations of Education (3); General Methods of Teaching in the Elementary or Secondary School (6). Advisors will assist students in selecting appropriate courses.

Students who do not possess a Florida Teaching certificate are also required to pass the Florida Teacher Competency Examination.

Applications for advanced practicum and supervised field experience placements are due July 1 for Spring semester placements, and by March 1 for Fall semester 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 18 credits in advanced areas of special education, plus a choice of elective clusters of courses. Each elective cluster includes 15 semester hour credits and may lead to additional endorsement or certification. Special clusters may be approved by the department faculty.

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.

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 styles through observation and ongoing 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 staffing and IEP development; e) supervision and leadership of special education units; 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.

Required Core For All Students: (18)

- EDF 5481 Analysis and Application of Educational Research 3
- EEX 6060 Curriculum Planning and Development 3
- EEX 6211 Assessment of Learning and Behavior 3
- EEX 6535 Seminar In Special Education: Supervision and Leadership 3
- EEX 6846 Seminar in Special Education: Issues and Trends 3
- EEX 6912 Advanced Theory and Research In Special Education 3

Elective Clusters: Choose One (15)

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

Physically Impaired (Certification)

- EEX 6536 Characteristics of Individuals with Severe Disabilities 3
- PHT 5515 Managing Therapy Services for Handicapped Children 3
- OTH 6546 Resources and Skills for Physically Impaired/Profoundly Handicapped 3
- OTH 6547 Strategies for the Physically Impaired/Profoundly Handicapped 3
- EEX 6863 Supervised Field Experience: Individuals with Severe Disabilities 3

Pre-Kindergarten Handicapped Education (Endorsement)

- EEX 6213 Assessment of Infants and Preschoolers with Disabilities 3
- EEX 6017 Typical and Atypical Child Development: Birth - 5 Years 3
- EEX 6455 Programming for Young Children with Disabilities: Birth - 5 Years 3
- SOW 6351 Intervention Strategies in Marriage and the Family 3
- EEX 6863 Supervised Field Experience/Early Childhood 3

Secondary Programs for the Mildly Handicapped

- EEX 6065 Educational Program for Students with Exceptionalities 3
- RED 6336 Reading in Content Areas 3
- SCE 6635 Teaching Science in Secondary Schools 3
- SSE 6633 Teaching Social Studies In Secondary Schools 3
### Reading for Exceptional Students

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6259</td>
<td>Reading for Students with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Diagnosis of Reading Difficulties</td>
<td>3</td>
</tr>
<tr>
<td>RED 6515</td>
<td>Program of Remediation in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

### ESOL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<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 ESL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5938</td>
<td>Seminar in Second Language Testing</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5245</td>
<td>Development in ESOL Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
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### Emotionally Disturbed

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CCJ 5525</td>
<td>Seminar in Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6930</td>
<td>Special Topics in Counseling and School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SDS 5400</td>
<td>Crisis Counseling and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>EED 6255</td>
<td>Ecological Intervention: Strategies for Students with the Severe Emotional Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6863</td>
<td>Supervised Field Experience in EH/SED</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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 coursework 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.

### Specialization Requirements

#### Varying Exceptionalities

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 4240</td>
<td>Nature and Needs of Students with Mild Disabilities</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>EMR 4362</td>
<td>Strategies for Teaching Students with Mental Retardation</td>
<td>3</td>
</tr>
<tr>
<td>EED 4243</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mental Retardation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMR 6852</td>
<td>Advanced Theory and Practice: Mental Retardation</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4221</td>
<td>Curriculum for Teaching Students with Mental Retardation</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4362</td>
<td>Strategies for Teaching Students with Mental Retardation</td>
<td>3</td>
</tr>
</tbody>
</table>

### Learning Disabilities

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELD 4230</td>
<td>Curriculum for Teaching Students with Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELD 4240</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>
<td>3</td>
</tr>
</tbody>
</table>

### Emotionally Handicapped

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EED 6226</td>
<td>Advanced Theory and Practice: Emotionally Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>EED 4212</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>EED 4244</td>
<td>Curriculum for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EED 4243</td>
<td>Strategies for Teaching Students with Emotional Handicaps</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may enroll for under-graduate or graduate courses. Students must ensure that at the time of graduation they have 30 credit hours of Master level course work.

1 Field work required.

### Alternate Master's Track: Varying Exceptionalities

Admission requirements to the Alternate Master's Track in Varying Exceptionalities are the same as those of the Special Education Master's Program.

Students holding a baccalaureate degree outside of education may prepare for entry level into the field of special education by completing the Alternate Master's Track...
program, which includes the following course work.

**Professional Studies**

EDG 5414 Instructional Strategies for the Classroom Teacher 4
EDG 5707 Cultural and Cross Cultural Studies 4
EDF 5717 History of American Education 3
EDF 6211 Psychological Foundations of Education 3

**Special Education Certification Core**

EEX 6051 Education of Students with Exceptionalities 3
EEX 6106 Acquisition of Speech and Language 3
EEX 6227 Educational Assessment of Students with Exceptionalities 3
MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3
EEX 6771 Independent Living for Individuals with Disabilities 3
RED 6155 Instruction in Elementary Reading 3
MAE 4310 Teaching Elementary Mathematics 3
LAE 6355 Instruction in Elementary Language Arts 3

**Special Education Program Core**

EEX 6060 Curriculum Planning and Development in Special Education 3
EMR 4362 Strategies for Teaching Students with Mental Retardation 3
EED 4243 Strategies for Teaching Students with Emotional Handicaps 3
ELD 4240 Strategies for Teaching Students with Language Disabilities 3
EDF 5481 Analysis and Application of Educational Research 3
EEX 6912 Advanced Theories and Research: Special Education 3
EEX 6862 Student Teaching 6

Note: The prerequisite for these courses is EDG 5411.

Applications to student teach are due in the office of the Director of Student Teaching by July 1 for placement in the Spring semester. A 2.5 GPA is required. Upon completion of Modified Master's Degree, students need the following courses to add certification in:

**Specific Learning Disabilities:**

EDL 4230 Curriculum for Teaching Students with Learning Disabilities 3
EDL 6323 Advanced Theory and Practice: Learning Disability 3

**To Add Mental Retardation:**

EMR 4221 Curriculum for Teaching Students with Mental Retardation 3
EMR 6852 Advanced Theory and Practice: Mental Retardation 3

**Emotionally Handicapped**

EED 4212 Behavioral Approaches to Classroom Learning II 3
EED 4244 Curriculum for Teaching Students with Emotional Handicaps 3
EED 6226 Advanced Theory and Practice: Emotional Handicaps 3

**Educational Specialist in School Psychology**

The program in School Psychology requires a minimum of 74 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) 348-2552.

The competencies to be demonstrated by the student completing this program are derived from the following: behavioral/educational assessment and planning; counseling and child-centered consultation with teachers, parents, and agency representatives; testing, liaison, referral, and case management; program development and evaluation; in-service education; administrative consultation; and community development.

**Required Program:** (74)

EDF 5481 Analysis and Application of Educational Research 3
EDP 6211 Psychological Foundations of Education 3
MHS 5400 Introduction to Counseling 3
MHS 6513 Human Interaction I: Group Process and Social Behavior 3
MHS 6514 Human Interaction II 3
MHS 6411 Advanced Counseling and Consultation: Theory and Practice 3
EDP 6505 Human Development: Child and Adolescent 3
EEX 6106 Exceptional Children and Youth 3
EEX 6227 Diagnostic Teaching: Educational Assessment 3
EEX 6208 Medical Aspects of Disability 3
EEX 6912 Advanced Theory and Research in Special Education 3
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
SPS 6193L Psycho-Educational Assessment III: Lab 3
SPS 6805 Professional Problems and Issues in School Psychology 3
SDS 5460 Crisis Counseling and Intervention 3
MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3
MHS 6630 Program Evaluation in Counseling and School Psychology 3
SPS 6930 Special Topics in Counseling and School Psychology 3

1Field Work Required.
SAP 6678 Supervised Field Elective
Experience School Psychology 10

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 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 complete 18 hours of prerequisite coursework in psychology with the advice and counsel of an advisor.

Former recipients of the MS degree in School Psychology at this institution may upgrade their degree to the Ed.D. by following a sequence of courses approved by the department.

Doctor of Education in Exceptional Student Education

The Doctoral Program in Exceptional Student Education offers specialties in the following areas: Administration; Curriculum Development; and Research.

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 at 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 undergraduate work;
2. A 3.25 GPA in 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 600.

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.

Core Courses: (15)

- EEX 6937 Seminars in Special Education 3
- EEX 6208 Medical Aspects of Exceptionality 3
- EEX 6301 Research in Cognitive Processes of Students with Disabilities 3
- EEX 6203 Advanced Psycho-Social Aspects of Exceptionality 3

EEX 6535 Seminar in Special Ed.; Supervision and Leadership 3

Professional Education Core

EDF 7937 Advanced Topics in Education 3

1 All doctoral students must enroll in EDF 7937 within their first year of admission.

At present the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Specialty Area: (30)

Exceptional Education and/or related area (can be satisfied by appropriate master's level work).

Cognate Area: (18)

The cognate area requires a minimum of 15 semester hours in one of the following career thrusts: special education administrator; special education curriculum specialist; special education researcher.

Research and Statistics: (9)

Required Courses:

- STA 6166 Statistical Methods in Research 3
- EDF 6486 Research Methods in Education: Experimental Design and Analysis 3

1 Prerequisite: EDF 5481 and STA 6166

One of the following:

- EDF 6403 Quantitative Foundations of Education 3
- EDF 6475 Qualitative Foundations of Educational Research

Electives: 9

Additional courses in the area of the student's interests as determined by the student and his or her Program of Study Committee.

Candidacy Examinations and Advancement to Candidacy

The student may be admitted to candidacy for the degree after the following conditions have been met:

a. Residency requirement
b. Successful completion of Candidacy Examination
c. Recommendation of the Program of Study Committee
d. Approval of a dissertation topic by the student’s Dissertation Committee.

Dissertation: (24)
The student is responsible for a minimum of 24 semester hours of dissertation credits. (EEX 7980) The dissertation must be an original contribution to knowledge in exceptional student education. The student is expected to complete the dissertation within five years from the date of advancement to candidacy. A minimum of six credit hours of dissertation credits are required to be undertaken each semester once the dissertation is started (including Summer semester).

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
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 6771 Independent Living for Students with Exceptionalities 3
EEX 4601 Behavioral Approaches to Classroom Learning 3

ELD 4230 Curriculum for the Learning Disabled 3
ELD 4240 Strategies for Teaching Students with Learning Disabilities 3
ELD 6323 Advanced Theory and Practice: Learning Disability and Research in Special Education 3

Emotional Disturbance
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 6771 Independent Living for Students with Exceptionalities 3
EEX 4601 Behavioral Approaches to Classroom Learning 3
EED 4244 Curriculum for Teaching Students with Emotional Handicaps 3

Mental Retardation
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 6771 Independent Living for Students with Exceptionalities 3
EEX 4601 Behavioral Approaches to Classroom Learning 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

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. Program application deadline is March 1st for Fall enrollment.

Required Program: (33)
SDS 6700 Professional Problems in Counseling 3
MHS 6200 Measurement and Appraisal in Counseling 3
MHS 5350 Educational-Vocational Counseling 3
MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3
SDS 6930 Special Topics in Counseling and School Psychology 3
EDP 6211 Psychological Foundations of Education 3
MHS 5400 Introduction to Counseling 3
MHS 6513 Human Interaction I: Group Process and Social Behavior 3
MHS 6511 Group Counseling 3
MHS 6411 Advanced Counseling and Consultation: Theory and Practice 3
(Prerequisite: MHS 5400 and MHS 6410)
SDS 6784 School Law for Student Service Workers 3
MHS 6428 Counseling the Culturally Different 3
MHS 6800 Advanced Practicum in Counseling and Consultation
(Prerequisite: All the courses listed above) 3

Note: At the discretion of the program coordinator, a minimum of six semester hours of transfer credit may be used to satisfy these requirements.

Applications for advanced practicum placement (MHS 6800) must be submitted to the office of the Director of Student Teaching by July 1 for Spring semester placement, and by March 1 for Fall and Summer semester placements.

Certification in Gifted Education
Individuals who hold Florida teacher certification in any subject or field, may receive an endorsement for teaching the gifted (Grades K-12) by completing the following courses:

EGI 5051 Nature and Needs of the Gifted 3
EGI 5232 Educational Procedures and Curriculum for the Gifted 3
EEX 6417 Guidance and Counseling of the Gifted 3
EGI 6306 Theory and Development in Creativity for Gifted 3
EGI 6405 Special Populations Gifted 3

Elementary Education
George E. O'Brien, Associate Professor, Science Education
Toni Bilbao, Associate Dean, Elementary Education
Mohammed K. Farouk, Assistant Professor, Social Studies Education
Joyce C. Fine, Assistant Professor, Reading and Language Arts Education
Mary M. Gerlick, Instructor, Elementary Education
Robert K. Gilber, Associate Professor, Mathematics Education
Sharon W. Kossack, Professor, Reading Education
Nancy Marshall, Associate Professor, Reading and Language Arts Education
Grover C. Mathewson, Associate Professor, Reading and Language Arts Education
Alicia Mendoza, Associate Professor, Early Childhood/Elementary Education
Lynne Miller, Associate Professor, Reading and Language Arts Education
George S. Morrison, Professor, Early Childhood Education and Curriculum and Instruction
Edward M. Reichbach, Associate Professor, Social Studies Education
William M. Ritzi, instructor, Art Education
Catherine Soll, Instructor, Elementary Education
Yee P. Soon, Assistant Professor, Mathematics Education
Nina Zaragoza, Assistant Professor, Language Arts 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 minimums. 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.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

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.

Required Program: (36)

EDE 6205 Curriculum Design for Childhood Education 3
EDF 5432 Measurement and Evaluation in Education 3
EDF 5481 Analysis and Application of Educational Research 3
EEC 6261 Education Programs for Younger Children 3
RED 6305 Instruction in Early Childhood Reading 3
MAE 6305 Instruction in Early Childhood Mathematics 3

Specialization Courses
Courses to be selected from among Early Childhood course listings, in consultation and with approval of an advisor.
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.

Required Program: (36)
EDE 6205 Curriculum Design for Childhood Education 3
EDE 6225 Educational Program for Older Children 3
EDF 5432 Measurement and Evaluation in Education 3
EDF 5481 Analysis and Application of Educational Research 3
RED 6155 Instruction in Elementary Reading 3
MAE 6318 Instruction in Elementary Mathematics 3

Specialization Courses
Courses to be selected from among Elementary courses only in consultation and with approval of advisor.

Master of Science in Elementary Education: Alternate Track

Admission Requirements
1. B.S. degree from accredited college/university
2. GPA of 3.0 or GRE of 1000
3. Must take the GRE

Program Courses (55)

Block 1: (13)
EDG 5414 Instructional Strategies 4
EDF 5517 History of American Education 3
EDP 6211 Psychological Foundations of Education 3
EDF 5481 Analysis and Production of Educational Research 3

Block 2: (10)
LAE 6355 Instruction in Elementary Language Arts 3
RED 6155 Instruction in Elementary Reading 3
SSE 6355 Instruction in Elementary Social Studies 3
EDE 6948 Graduate Internship in Elementary Education 1-6

Block 3: (13)
EDE 6205 Curriculum Design in Childhood Education 3
ARE 6315 Instruction in Elementary Art 3
HLP 3013 Teaching Elementary Health and P.E. 3
MUE 6316 Instruction in Elementary Music 3
EDE 6948 Graduate Internship in Elementary Education 1-6

Block 4: (10)
MAE 6318 Instruction in Elementary Math 3
SCE 6315 Instruction in Elementary Science 3
EDF 5432 Educational Measurement and Evaluation 3
EDE 6948 Graduate Internship in Elementary Education 1-6

Block 5: (9)
EDE 6225 Educational Programs 3
EDE 6948 Graduate Internship in Elementary Ed. 1-6

Note: Prerequisites may be required for selected program courses, check course descriptions listed in this catalog.

Master of Science in Reading

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 Education 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.

Standard Track
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.

Required Program: (21)
EDE 6205 Curriculum Design for Childhood Education 3
or
EDG 6250 Curriculum Development 3
EDF 5432 Measurement and Evaluation in Education 3
EDF 5481 Analysis and Application of Education Research 3
RED 6155 Instruction in Reading 3
RED 6336 Reading in the Content Areas 3
RED 6515 Programs of Remediation in Reading 3
RED 6546 Diagnosis of Reading Difficulty 3

Specialization Courses: (15)
Courses to be selected from among Reading or Language Arts course listings, in consultation and with approval of advisor.

EEG 6520 Reading for Exceptional Students 3
LCI 6515 Children’s Literature 3
LAE 5927 Special Topics in Language Arts 3
LAE 6355 Instruction in Language Arts 3
RED 5447 Analysis and Production of Reading Materials 3
RED 5448 Reading by Computer 3
RED 5911 Directed Study in Reading 3
RED 5925 Special Topics in Reading Education 3
RED 6247 Organization and Supervision of Reading Programs 3
RED 6747 Research in Reading 3
RED 6805 Practicum in Reading 3
**Thesis Track**

This master’s track is designed to meet the needs of students interested in pursuing independent research and provides a special foundation for doctoral degree program entrance. Admission requirements for this program are the same as for the regular Master’s degree program.

**Required Program: (33)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 6205</td>
<td>Curriculum Design for Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDE 6250</td>
<td>Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>RED 6155</td>
<td>Instruction in Early Childhood Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
<td>3</td>
</tr>
<tr>
<td>RED 6515</td>
<td>Programs of Remediation in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Diagnosis of Reading Difficulty</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6931</td>
<td>Seminar in Reading Education</td>
<td>3</td>
</tr>
<tr>
<td>RED 6971</td>
<td>Thesis in Reading Education</td>
<td>6</td>
</tr>
</tbody>
</table>

**Specialization Course: (3)**

Complete one reading or language arts course in consultation with advisor:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 5447</td>
<td>Analysis and Production of Reading Materials</td>
<td>3</td>
</tr>
<tr>
<td>RED 5448</td>
<td>Reading by Computer</td>
<td>3</td>
</tr>
<tr>
<td>RED 6247</td>
<td>Organization and Supervision of Reading Programs</td>
<td>3</td>
</tr>
<tr>
<td>RED 6805</td>
<td>Practicum in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6845</td>
<td>Clinical Procedures in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 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 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.

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.

**Core Courses: (15)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</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 Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
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</table>

**Professional Education Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7937</td>
<td>Advanced Topics in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

All doctoral students must enroll in EDF 7937 within their first year of admission.

At the time of the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

**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 an-
ticipated 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6486</td>
<td>Research Methods in Education: Design and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Prerequisite: EDF 5481 and STA 6166.

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6403</td>
<td>Quantitative Foundations of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6475</td>
<td>Qualitative Foundations of Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass candidacy examinations covering coursework 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 2.75 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 Chairperson of the Reading Program.

Prerequisite Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 6155</td>
<td>Instruction in Elementary Reading</td>
<td></td>
</tr>
<tr>
<td>RED 6305</td>
<td>Instruction in Early Childhood Reading</td>
<td></td>
</tr>
</tbody>
</table>

Required Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5415</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>LAE 6355</td>
<td>Instruction to Elementary Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Diagnosis of Reading Difficulty</td>
<td>3</td>
</tr>
<tr>
<td>RED 6515</td>
<td>Programs of Remediation in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Advised Electives: Two courses chosen from language-related courses offered outside of the College of Education 6

Elective courses are chosen from an approved list in consultation with a Reading Program advisor.

Educational Foundations and Professional Studies

John A. Carpenter, Professor, and Chairperson, Educational Foundations and International Development 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, 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

E. Ira Goldenberg, Professor and Dean, Educational Foundations and Urban Education

E. Joseph Kaplan, Assistant Professor, Educational Foundations and General Methodology

Patricia A. Killian, Assistant Professor, Teaching English as a Second Language

Colleen A. Ryan, Associate Professor, Educational Psychology, Educational Foundations

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 the following fields:
Master of Science

International Development Education
Teaching English to Speakers of Other Languages (TESOL)
Urban Education

Furthermore, it directs specialty tracks in International Development Education and TESOL, and Social and Philosophical Foundations of Education and Comparative Education at Doctoral and Masters Degree levels.

The Department also coordinates the Foundations of Education courses and the Professional Education Core. It directs the Dade County Public School/Florida 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/Immigrant Education.

All stated admission requirements are to be considered minimums. 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 in International Development Education

The Master of Science degree in International Development Education (IDE) 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 Development Education (IDE), 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 500 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 applicant's 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 coursework 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)

The IDE 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 ensure 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.

Social Context of Education and Development: (6)

EDF 5850 International Development Education: Historical and Contemporary Reality

EDF 5852 Educational Development Issues in Context: A Multidisciplinary Perspective

Educational Research and Evaluation Methods: (6)

EDF 5481 Analysis and Application of Educational Research

EDF 5432 Methods and Evaluation

Educational Policy, Planning, Implementation/Management and Evaluation Skills: (12)

EDF 6654 Macro- and Micro-Planning in Education

EDF 6651 International Development Education: Educational Technology, Planning and Assessment

EDF 6656 International Development Education: Innovative Approaches in Educational Planning


EDF 6905 Independent Study

EDF 6906 Directed Study in International Development Education

EDF 6972 Thesis in International Development Education

Dual Specialties: (12)

Electives:

The student will select, with advisor's permission, a minimum of six semester hours from courses available in one of the following areas:

1. A content area of educational specialization;

2. Comparative/Intercultural Education;

3. System's consultation;
4. Socioeconomic and political context of development;
5. 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 years 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 500 on the TOEFL examination is also required. Admission to the program is contingent upon departmental approval.

Degree Requirements
The Master of Science degree consists of 30 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 to study in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018.

Required Program: (30)

Professional Education: (12)

All students will be required to complete 12 semester hours in the College of Education:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development in ESOL</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>
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</table>

Program Courses: (15)

Required: (6)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5206</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5501</td>
<td>English Syntax</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: (9)

Students will choose nine semester hours according to their needs, with the approval of their advisor.

Field Component: (3)

The remaining three semester hours will consist of a supervised field experience (TSL 6908) in the teaching of English to speakers of other languages. The field experience may be arranged according to one of the following options:

1. ESOL in Public Schools;
2. ESOL in adult or community college education;
3. ESOL in private schools or private enterprise;
4. The English Language Institute at the University.

All arrangements must be approved by the advisor.

Graduation Requirements
To receive the Master of Science degree in TESOL the student must complete the required 30 semester hours of coursework with a 'B' or 3.0 average or higher and no more than two 'C' grades in required courses.

Master of Science in Urban Education

To be eligible to enroll in the Master's in Urban Education program, students must meet all University and College of Education admission requirements.

Program Core (9)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6602</td>
<td>Social and Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6636</td>
<td>Race, Class, Ethnicity, National Origin, Gender in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialty Track #1: Urban Education (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDE 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)

Six hours of electives may be taken with approval of academic advisor.

Interdisciplinary Electives (select one) (3)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDG 5707</td>
<td>Cultural/Crosscultural Studies in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6631</td>
<td>Multicultural Education: Defining the Field</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</th>
<th>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 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>EDG 5941</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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5881</td>
<td>Foundations in Bilingual Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 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>EDG 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)**

- EDF 6689 Multicultural Education: Defining the Field 3
- Elective as approved by the academic advisor 3

**Specialty Track #3: Instruction in Urban Settings (16)**

- EDG 5414 Instructional Strategies for Classroom Teacher 3
- EDG 5414L Instructional Strategies Lab 3
- EDG 5325 Analysis of Teaching 3
- EDG 6215 Application of Learning Theory to Instruction 3
- EDF 5287 Instructional Technology: Systems Approach 3
- Guided electives in Instruction 3

**Interdisciplinary Electives: (select one) (3)**

- EDF 6216 Effective Learning in the Classroom 3
- EDF 5707 Cultural/Cross-Cultural Studies in Education 3
- EDF 6444 Non-biased Assessment of the Culturally Different 3
- Any elective as approved by the academic advisor 3

**Specialty Track #4: Multicultural TESOL: (15)**

- TSL 5371 Special Methods of TESOL 3
- TSL 5142 Curriculum Development TESOL 3
- TSL 5938 Seminar in Second Language Testing 3
- TSL 5245 Developing ESL Language and Literacy 3
- EDF 5942 Multicultural Seminar and Practicum in Urban Education 3

Three hours of electives may be taken in lieu of a course above with approval of academic advisor.

**Interdisciplinary Electives: (select one) (3)**

- EDF 5707 Cultural/Crosscultural Studies in Education 3
- EDF 6631 Multicultural Education: Defining the Field 3

Any elective as approved by the academic advisor.

**Doctor of Education Degree Programs**

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: TESOL Specialization.

**Add-on Endorsement in ESOL**

Individuals who currently hold or are working toward teacher certificate in Elementary, English, Foreign Language or Special Education, may receive the Add-on Endorsement in ESOL by completing the following set of courses:

**Required Program**

- TSL 5938 Principles of ESOL Testing 3
- EDG 5707 Cultural and Cross-Cultural Studies 3
- TSL 5371 Special Methods of TESOL 3
- TSL 5142 Curriculum Development in ESOL 3
- TSL 5245 Developing ESOL Language and Literacy 3

**Health, Physical Education and Recreation**

Robert M. Wolff, Associate Professor, and Chairperson, Parks and Recreation Management and Sport Management

Laura E. Blitzer, Assistant Professor, Physical Education

Judith A. Blucker, Professor, Physical Education, and Acting Dean, College of Health

Carolyn DeFrancesco, Assistant Professor, Physical Education and Sport Management

Youngkhill Lee, Assistant Professor, Recreational Therapy, Parks and Recreation

Richard Lopez, Associate Professor, Exercise Physiology

Thomas K. Skalko, Professor and Recreational Therapy

Debra R. Trigoboff, Instructor, Sports Medicine

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 minimums. A student who meets these minimum requirements is not automatically assured admission. It is the responsibility of the student to ensure that he/she has met the requirements.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.
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 exercise testing in a supervisory capacity and in cardiac rehabilitation as a designer of exercise rehabilitation programs.

The program will focus on the physiological effects of exercise and training with application to the improvement of health and functional capacity of hospitalized and non-hospitalized individuals with heart disease. The program will emphasize the role of exercise in diagnosis, prevention, and rehabilitation of heart disease.

The program will enable 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. Provisions will be made to enable those students entering the program without an Exercise Test Technologist Certification and a Health/Fitness Instructor 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.

Required Program: (30)
Exercise Physiology/Sports Medicine Requirement
PEP 5116 Exercise Specialist
PET 5625 Sports Medicine
PET 6775 Health Fitness Director
PET 6785 Exercise Program Director

Physiology/Biochemistry/Special Topics Requirement
PCB 4703 Human Systemic Physiology
or
An approved alternative
and
A second approved course in physiology, biochemistry, special topics or nutrition

Research Requirement
Advisor approved course in research

Internship Requirement
PET 6940 Internship in Exercise Physiology

Electives2 (0-6)
1. Students presently employed in the field in an administrative capacity may be exempted from this requirement.
2. Students who have not taken PET 5387 Exercise Test Technology and PET 5115 Fitness Instructor or who do not have ACSM certifications in these areas must take these classes as part of their required program of study. Students who have the classes or the certifications will take electives.

Master of Science in Parks and Recreation Management
The graduate program in Parks and Recreation Management is planned 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.

Required Program: (30-36)
Required Core: (15)
LEI 5510 Program Administration in Parks and Recreation
LEI 5595 Seminar in Parks, Recreation, and Sports Management
LEI 5605 Philosophical and Social Bases of Parks and Recreation
STA 6166 Statistical Methods in Research

Select from one of the following two tracks: (18-19)

Leisure Service Management Track
LEI 5907 Directed Study in Parks and Recreation Management
Advised Electives
15
A student who did not complete a Parks, Recreation, Leisure or Sport 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

Recreational Therapy Core (9)
LEI 5716 Program Planning in Therapeutic Recreation
LEI 5719 Client Assessment, Evaluation, and Documentation
LEI 6725 Administrative Aspects of Therapeutic Recreation

Thesis Option:
LEI 6971 Thesis: Recreational Therapy
Total Hours Thesis Option: 30

Non-Thesis Option:
LEI 5907 Individual Study in Parks and Recreation Management
Advised Electives
9
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 (CIRS) by the National Council for Therapeutic Recreation Certifica-
tition 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.

Required Program: (30)

Professional Education: (3)
EDF 5481  Analysis and Application of Educational Research  3

Area of Specialization: (21)
PET 5216  Sports Psychology  3
PET 5238  Motor Learning  3
PET 5256  Sociology of Sport  3
PET 5625  Sports Medicine  3
PET 5436  Physical Education Curriculum  3
PET 6597  Survey of Research in Physical Education and Sports  3
PET 6932  Seminar in Physical Education  3
PET 4510  Evaluation in Physical Education  3

Electives  6-12

1Not required of students holding K-8 Certification or students who have completed an equivalent undergraduate course.

Sport Management

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. 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.

Required Program: (33)

STA 6199  Statistical Methods in Research  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
PET 5936  Special Topics: Law and Liability in Parks and Recreation and Sports  3
LEI 5510  Program Administration Parks Recreation and Sports  3

Advised Electives: (6-9)
Six to nine hours of advised electives and directed study.

Subject Specializations

A. Dean Hauenstein, Professor and Chairperson, Technology Education and Vocational Education
Anhild Badia, Associate Professor, Modern Language Education
David Y. Chang, Associate Professor, Art Education
Myrna P. Crabtree, Professor, Home Economics Education, Vocational Education, Family and Consumer Sciences Education
Anna Marie Evans, Assistant Professor, Social Studies Education
Frank T. Hammons, Assistant Professor, Vocational Industrial Education
Zhonghong Jiang, Assistant Professor, Mathematics Education and Computer Education
Luis A. Martinez-Perez, Associate Professor, Science Education
C. Edwin McClinock, Professor, Mathematics Education and Computer Education
Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education
Cliff Pennington, Associate Professor, Art Education
Janice R. Sandford, Associate Professor, Health Occupations Education, Computer Education, Vocational Education
Robert Shostak, Professor, Computer Education
Linda Spear-Bunton, Assistant Professor, English Education
Jan L. Tucker, Professor, Social Studies Education, Director, Global Awareness Program
Robert Vos, Associate Professor and Associate Dean, Organizational Training, Vocational Education
Michael J. Wagner, Professor, Music Education

The Department of Subject Specializations offers graduate programs leading toward the Master of Science and the Doctor of Education degrees.

Additionally the department offers Alternate Masters Tracks of many of its programs for students who do not hold a bachelor's degree in education. These programs lead to State of Florida teacher certification.
Masters of Science Programs
Art Education
English Education
Mathematics Education
Modern Languages Education
Music Education
Science Education
Social Studies Education
Technology Education
Vocational Home Economics Education
Home Economic Education Track (non-school based)
Vocational Administration and Supervision
Vocational Industrial Education
Health Occupations Education Track

Doctoral Programs
Curriculum and Instruction
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 minimums. 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

Art Education
Required Program: (36)
Education, Including Art Education: (15)
EDF 5481 Analysis and Application of Educational Research 3
ARE 6140 Curriculum and Instruction in Art 3
ARE 6262 Organization and Coordination of School and Community Art Programs 3
ARE 6746 Seminar in Art Education: Contemporary Issues and Research 3
Select one of the following:
EDF 6205 Curriculum Design for Childhood Education 3
or
ESE 6215 Secondary School Teaching Field or
EEX 6051 Exceptional Children and Youth or
EDS 6050 Supervision in Education or
EDF 5955 Field Study Abroad

Fine Arts
Art History 3
Studio Art (Three semester hours credit for each studio course) 12
ARE 4848 Concepts in Art Education 3
ARE 6925-29 Workshop in Art Education 3

English Education
Required Program: (30)
EDF 5481 Analysis and Application of Educational Research 3
LAE 6339 Teaching English in the Secondary School 3
ESE 6215 Secondary School Curriculum 3
LAE 6935 Seminar in English Education 3
1Prerequisite: Undergraduate English methods course.
2Permission of Instructor required.
Teaching Field: English 15
Advisor Approved Electives 3

Mathematics Education
Required Program: (33)
EDF 5481 Analysis and Application of Educational Research 3
MAE 6336 Teaching Mathematics in the Secondary School 3
MAE 6899 Seminar in Mathematics Education 3
ESE 6215 Secondary School Curriculum 3
Teaching Field: Mathematics Electives: In Education or Mathematics, or both 12

1Permission of Instructor; undergraduate secondary mathematics methods, and mastery of programming language beyond BASIC and graduate level mathematics coursework required.

Modern Language Education
Prerequisites
One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.
Required Program: (30)
Required Core
All students will be required to complete the following twelve semester hours in the College of Education:
EDF 5481 Analysis and Application of Educational Research 3
ESE 6215 Secondary School Curriculum (or equivalent) 3
FLE 6336 Teaching Second Language in the Secondary School 3
FLE 6938 Seminar in Second Language Testing 3
Teaching Field: Modern Languages (Prerequisite: LIN 3010) 15
Field Component: (3)
The remaining three semester hours will consist of a supervised field experience (FLE 5908) in the teaching of one of the modern languages. The field experience may be arranged according to one of the following options:
(a) County Public Schools;
(b) private school;
(c) adult or community college education;
(d) adjunct teaching at the University. All arrangements for field experience must be approved by the advisor.

Music Education
Required Program: (30-34)
ESE 6215 Secondary School Curriculum 3
or
EDF 6205 Curriculum Design for Childhood Education 3
EDF 5481 Analysis and Application of Educational Research 3
MUE 6345  The Methodology and Analysis of Music Teaching  3
MUE 6938  Seminar in Music Education  3
MUE 6815  Psychological Foundations of Music Behavior  3
MUT 5381  Arranging  3
MUG 5105  Advanced Conducting  1
Advisor Approved Electives  11-15

Music Education (non-certification track)  
(30-34)
EDP 6211  Psychological Foundation of Education  3
EDF 5481  Analysis and Applications of Educational Research  3
MUE 6345  Methodology of Music Teaching  3
MUE 6938  Seminar in Music Education  3
MUE 6815  Psychology of Music Behavior  3
MUG 5105  Advanced Conducting  1
MUT 5381  Arranging  3
Advisor Approved Electives  11-15

Science Education
Required Program:  (33)
EDF 5481  Analysis and Application of Educational Research  3
ESE 6215  Secondary School Curriculum  3
SCE 6635  Teaching Science in the Secondary School  3
SCE 6933  Seminar in Science Education  3
Teaching Field  12
Biology or chemistry or physics or courses from the following areas with approval of advisor: biology, chemistry, physics, geology, and environmental sciences. (For Junior High Science Teachers).
Advisor Approved Electives  9

Social Studies Education
Required Program: (33)
SSE 6633  Teaching Social Studies in the Secondary School  3
ESE 6215  Secondary School Curriculum  3
EDF 5481  Analysis and Application of Educational Research  3
SSE 6939  Seminar in Social Studies Education  3
Teaching Field: Social Studies, Social Science, History  12
Advisor Approved Electives  9

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, who 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 coursework.

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 sequences 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 5517  Education in American History  3
EDG 5414  Instructional Strategies in Teaching  3
EDG 5414L Instructional Strategies in Teaching: Laboratory  1
EDP 6211  Psychological Foundations of Education  3
Special Teaching Lab: Area  3-6
Student Teaching (Practicum)  6
Applications to student teach are due 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.

Administration and Supervision of Vocational Education

Admission to the Vocational Administration and Supervision program requires adherence to the general standards as specified in the Admission Requirements for Graduate Students at the University. 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 competencies, an area of emphasis, and electives.

Required Program: (33-36)
Required Core: (27-30)
EVT 5168  Curriculum Development in Vocational Education  3
### Area of Professional Emphasis: (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 5315</td>
<td>Improvement of Teaching Strategies in Health Occupations and Nursing Education</td>
</tr>
<tr>
<td>EVT 5317</td>
<td>Occupational Analysis in Health Occupations and Nursing Education</td>
</tr>
<tr>
<td>EVT 6318</td>
<td>Current Issues in Health Occupations and Nursing Education</td>
</tr>
</tbody>
</table>

### Technical Electives: (6)

The candidate is encouraged to select courses that will increase subject area technical competence, career goals, and certification requirements.

### Electives (3)

The candidate will be in consultation with the advisor to make selections on the basis of individual needs and career goals.

### Technology Education

#### Required Program: (30)

**Required Core:** (15-18)
- 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 6760 Research in Vocational Education 3
- EVT 6930 Seminar 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

**Electives:** (3-6)
- RED 6336 Reading in the Content Area 3

### Health Occupations Education

#### Required Program: (30)

**Required Core:** (12-15)
- EVT 5168 Curriculum Development in Vocational Education 3
- EVT 5769 Evaluation in Vocational Education 3
- EVT 6760 Research in Vocational Education 3
- EVT 6930 Seminar in Vocational Education 3
- RED 6336 Reading in the Content Area 3

**Area of Professional Emphasis (9)**

With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies.

### Electives (3)

Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

### Home Economics Education (Family and Consumer Sciences Education)

#### Non-School Based Track

This track focuses on educational leadership of Home Economists 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.

#### Required Program: (30)

**Required Core:** (15-18)
- 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)**

Students who have met the reading requirement as undergraduates or through approved in-service education, may substitute an elective for this course.
Technical Electives: (3-6)
The candidate will be encouraged to select courses that increase subject area technical competence. 

1. Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

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.
4. 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 500. Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which constitute 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.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Research and Statistics: (9)
Required Courses:

STA 6166 Statistical Methods in Research
EDF 6486 Research Methods in Education: Experimental Design and Analysis

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

EDF 7937 Advanced Topics in Education

1. 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 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.

Core Courses: (18)

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 6211 Psychological Foundations of Education 3
EDF 7937 Advanced Topics in Education 3

1 All doctoral students must enroll in EDF 7937 within their first year of admission.

At press time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

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 coursework 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 coursework 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 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

Modern Languages/Bilingual Education Specialization

In addition to the core courses students are required to enroll in the following courses:

Required Courses (18)

FLE 7761 Research in Modern Languages/Bilingual Education 3
FLE 7165 Content-Based Language Curriculum Development 3
FLE 7938 Doctoral Seminar in Multicultural Education 3
FLE 6925 Workshop in Second Language Education 3
EDF 5995 Field Study Abroad 3
or
FLE 5945 Modern Language/Bilingual School Experiences 6

Electives (18) select from:

FLE 6336 Methods of Teaching Modern Languages (7-12) 3
LIN 5825 Studies in Bilingualism 3
EDA 6061 Introduction to Educational Leadership 3
EDF 5881 Foundations of Bilingual Education 3
EDA 7069 Educational Policy 3
FLE 5895 Bilingual Education Teaching Methodologies 3
EDG 5757 Curriculum Development for Bilingual Programs 3
EDF 6444 Non-Biased Assessment of the Culturally Different 3
TSL 5142 Curriculum Development in ESL 3
TSL 5371 Special Methods of TESOL 3
LIN 6602 Language Contact 3
EDA 6195 Communication in Educational Leadership 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.

Dissertation: EDG 7980 (24)

An original contribution to the field of Modern Languages/Bilingual education.

Vocational and Technical Education Leadership

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 (99)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Education and HRD Core 1</td>
<td>12</td>
</tr>
<tr>
<td>Generic Core 2</td>
<td>33-36</td>
</tr>
<tr>
<td>Professional Education Core</td>
<td>6</td>
</tr>
<tr>
<td>EDF 7937 Advanced Topics in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

All doctoral students must enroll in EDF 7937 within the first year of admission.

At the time the faculty of the College of Education were in the process of revising the Professional Education requirements of all programs. For the latest program information please consult program faculty.

Vocational and Technical Education Leadership 3 15-21
Research and Statistics 12
Prospectus and Dissertation 24

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).

1 Common AE & HRD and V & TEL requirement
2 May include up to 36 semester hours of graduate credit from an approved Masters degree program and transfer credit.
3 May include AE & HRD courses.

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 instructors 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EVT 5078</td>
<td>Technical Education In American Society</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5650</td>
<td>Trends and Issues in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5769</td>
<td>Evaluation in Vocational and Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5315</td>
<td>Improvement of Teaching Strategies in Health</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5317</td>
<td>Occupational Analysis in Health</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5385</td>
<td>Adult Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Advised Electives

A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education, Health Service Administration or Health Specialty 6
Course Descriptions

Definition of Prefixes

ADE - Adult Education; ARE - Art Education; CGS - Computer Applications; CHD - Child Development; EDA - Education: Educational Leadership; EDE - Education: Elementary; EDF - Education: Foundations; EGG - 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 - Home Economics; HSC - Health Sciences; LAC - 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; SDE - Student Development Services; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

F-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 rationales 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-UP; SS-Brow)

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. (SS-UP; S-Brow)

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 5935 Special Topics in Adult Education and Human Resource Development (1). ‘Mini-courses’ which provide for an examination of special facets of adult education and human resource development. (AR)

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 5383 or permission of the instructor. (S-UP; F-Brow)

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 Designing Education and HRD Programs for Disadvantaged Adults (3). Distinguishing various forms of disadvantage; analyzing forces which inhibit solution; criticizing responses to problems; developing programs, curricula materials, recruitment strategies, and evaluation designs. (SS, alt)

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 supportive services; relating training to organization development. (SS-UP; S-Brow)

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. (F-UP; SS-Brow)

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 instructor. (F)

ADE 6674 Trends and Issues in AE/HRD (3). Presentation & 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, alt)

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 Development (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 masters program in HRD. 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 instructor. (F, S)

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/AR
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. (S)

ADE 7772 Review of Research in Adult Education and Human Resource Development (3). A review and synthesis of research on 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 & students. Colloquia present specific topics related to issues/trends/designs & applications. (S)

ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0). Comprehensive doctoral examination in the Adult Education/Human Resource Development Program. Prerequisite: Permission of Major Professor. (F.S.S)


ADE 7985 Dissertation Defense, Adult Education/HRD (0). Defense of dissertation. Prerequisites: Permission of Major Professor and ADE 7980. (F.S.S)

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. Delineation 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.S)

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 coursework 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 multi-cultural setting. (F)

ARE 6270Y Art Education (3). Elective in master's program in art education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (F.S.S)

ARE 6275Y Seminar in Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481. (S)

ARE 6925-29 Workshop in Art Education (3). Production and application of materials and techniques in art education, in a laboratory or field setting. (SS)

ARE 7938 Doctoral Seminar in Art Education (3). Advanced doctoral study in current theories and research related to art education. Prerequisite: ARE 6746 and EDF 6486. (F.S.S)

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 curriculum and administrative 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 and public relations in educational leadership. Study of the theory and
practice of school-community relations. (§)

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. (§)

EDA 6271C Microcomputer Application for Administrators (3). The role of computers in educational administration. Applications generic 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 program leader and 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 workshop. (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 eight domains of effective educational leadership as prescribed by the Florida Council on Educational Management. (AR)

EDA 6941 Practicum in Educational Leadership (3). Application of theory and research to field-based problems in educational administration/leadership. Prerequisites: Permission of program leader and instructor. (AR)

EDA 6943 Supervised Field Experience (1-6). Supervised field experience appropriate to the student's interests and professional goals. Prerequisites: Permission of program leader and 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 instructor. (AR)

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formation and implementation. (SS)

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. (F)

EDA 7233 School Law II (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 dimension of educational administration. (AR)

EDA 7550 Administration of Higher Education (3). Analysis of colleges and universities as social organizations with special emphasis on issues of 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. Prerequisites: Admission to doctoral program and permission of program leader and 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. Prerequisite: Admission to doctoral program. (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. Prerequisites: Admission to doctoral program, and permission of program leader. (AR)

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)

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.

EDE 5905 Directed Study in Elementary Education (1-3). Available to undergraduate and graduate elementary majors. Provides for individual investigation in the area of elementary education. Permission of 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 instructor required. (AR)

EDE 6205 Curriculum Design for Childhood Education (3). Required in masters programs in early childhood, and reading education. A study of curriculum theory, research, construction and evaluation related to elementary schools. (AR)
EDE 6225 Education Programs for Older Children (3). Required in masters program in elementary education. Programs developed for older children; curriculum trends based on contemporary psychological, educational and sociological research. (AR)

EDE 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)

EDE 6930 Seminar in Elementary Education (3). Elective in masters program in elementary education. Required for students in doctoral program. Advanced study of critical issues and problems in elementary education. Prerequisite: EDE 6488. (AR)

EDE 6948 Graduate Internship in Elementary Education (1-6). Field based experiences in elementary education provided. Required in modified masters track. Repeatable. (AR)

EDE 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, EDE 6488, and consent of instructor. Corequisite: EDE 6930. (F.S.SS)

EDE 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 5287 Instructional Technology: Systems Approach (3). Development of instructional competencies with an emphasis on the use of a systems approach in the design, implementation, and evaluation of programs. (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 American Education (3). An examination of different historical perspectives in the development of American education. Special focus on differing interpretations of school and society relationships. (F.S)

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 5850 International Development Education: Historical and Contemporary Reality (3). Designed to explore the relationship between education and the modernization/planning process. Special emphasis on historic/contemporary educational planning models. (F)

EDF 5851 Sauce/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 5850. (S)

EDF 5858 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.S.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 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 proc-
esse. 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 Non-Biased Assessment of the Culturally Different (3). Issues in the development and use of assessment procedures designed to avoid bias against an individual's cultural, linguistic, or ethnic background. (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 6636 Race, Class, Ethnicity, National Origin, Gender In Education (3). Interrelationship between race, class, gender, ethnicity, and national origin and their influence in learning. Prerequisites: Admission to Focus/Masters program. (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. (S)

EDF 6656 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. (S)

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.

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,S)

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 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,S)

EDF 7937 Advanced Topics In Education (3). In-depth, advanced exploration of a specific area, issue, or practice in education. Limited to and required of doctoral students. Repeatable. Prerequisite: Doctoral students only. (F,S)

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 instructor. Corequisite: EDG 5414L. (F,S,S)

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,S)

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 communication. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S,S)

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,S)

EDG 6286 Curriculum Evaluation and Improvement In Urban School Systems (3). Development of skills in curriculum evaluation and strate-
gies 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 consider 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 dynamic 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 6050. (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 7980 Doctoral Dissertation (3-9). Original contribution to knowledge in major field. Prerequisite: doctoral candidate. (F,S,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 instructor. (F,SS)

EDH 6925 Special Topics in Higher Education/Community College (1-6). 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 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 instructor. (F,SS)

EDH 7065 Higher Education: Philosophical/Historical Perspectives (3). This course examines basic philosophical positions 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 curricula 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. (S)

EDH 7980 Doctoral Dissertation, Community College Teaching (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)

EDP 6211 Psychological Foundations of Education (3). An advanced survey course designed to acquaint students with major theories and basic principles of learning, instruction, human development, personality and motivation. (F,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 Development: Childhood and Adolescence (3). Advanced survey of principles of human development in bio-psychosocial terms; in-depth study of infancy, childhood, adolescence, empha-
sizes applications to broad range of educational processes. (F)

EDP 6506 Human Development: Adulthood and Aging (3). Advanced survey of lifespan human development. Demographic, physiological, sociological factors contributing to optimal functioning through adulthood and aging. Applications to counseling and education. (AR)

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 5904 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 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 instructor required. (AR)

EEC 6261 Education Programs for Younger Children (3). Required in master's 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 learning approaches for infants, toddlers, preschool, handicapped, and at-risk children. Prerequisite: EEC 6017, EEX 3010 or EEX 6051 recommended. (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: none; EEC 3010 or EEX 6051 recommended. (AR)


EEC 6948 Supervised Experience in Early Childhood Education (3-9). Available to graduate early childhood education majors. Provides field work in educational institutions and organizations involved in childcare and early childhood education. Prerequisite: Permission of Instructor. (AR)


EEC 7932 Doctoral Seminar in Early Childhood Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to early childhood education. Topics may vary and may include: social, cognitive, affective and language development. Prerequisite: EEC 6678, EEC 6932. (AR)

EED 6226 Advanced Theory and Practice: Emotional Handicaps (3). Major theories in the area of behavior disorders, and skills in the application of these theories to education. (S, SS)

EED 6255 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.

EEX 6017 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: none; 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. (S, SS)

EEX 6060 Curriculum Planning and Development in Special Education (3). Historical and theoretical bases for designing, developing, adapting and evaluating curricula for individuals with 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. (F)

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 Language and Reading Skills (3). Concepts in acquisition and development of speech and language skills. (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 handicap. 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 communica-
tion of results in written reports and oral staffing. Prerequisites: EEX 3221 or equivalent. (S)

EEX 6213 Assessment and Interventions for Young Children with Disabilities (3). Presents an ecological approach to assessment of young disabled children. Formal/Informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisite: EEX 6017, EEX 3010 or EEX 6651. Corequisites: EEX 6455. (S)

EEX 6227 Educational Assessment (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. (F, SS)

EEX 6236 Characteristics of Individuals with Severe Disabilities (3). Characteristics of individuals with physically impaired, health impaired, and profound communication and behavior including autism. Medical etiology, assessment techniques, program planning for student and family. Prerequisite: Graduate level status. (F)

EEX 6259 Reading for Students with Exceptionalities (3). Provides teachers with knowledge of specific developmental, 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: Birth to Five Years. (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaching approaches for infants, toddlers, preschool age children with disabilities as well as children at risk. Prerequisites: EEX 6017, EEX 3010 or EEX 6651. Corequisite: EEX 6213. (S)

EEX 6608 Applied Behavior Analysis in Education (3). Application of behavior principles to children and youth in educational and community settings. Required for special education modified masters' and out-of-field certification majors.

EEX 6671 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 6646 Seminar in Special Education: Issues and Trends (3). Demonstration of diagnostic, curricular, instructional, multidisciplinary, and interpersonal objectives within a variety of field settings. (F)

EEX 6682 Student Teaching (6). Culminating field experience in a program for students with Exceptionalities, demonstrating competencies learned throughout the program. Prerequisite: successful completion of all program requirements. (F, SS)

EEX 6683 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, SS)

EEX 6906 Directed Study in Special Education (1-6). Concepts or competencies contracted for by graduate students in the field. (F, 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 of mental retardation, learning disabilities, and emotional disturbances. Prerequisite: Certification in Special Education and/or completion of Special Education core. (AR)

EEX 6927 Special Topics in Special Education (1-6). Selected competencies in special education, developed in short-term, intensive workshops. (F, SS)

EEX 6937 Seminars 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, SS)

EEX 7980 Doctoral Dissertation (6-9). Original contribution to knowledge in major field. Prerequisite: Doctoral candidate. (F, 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. (SS)

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. (F, S)

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)

EIA 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology
education at the national, state, and local levels. (SS)

ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities (3). Major concepts 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,SS)

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 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 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 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 instructor. (F,S,SS)

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)

ESE 6947 Supervised Field Experience (3-9)(ARR). Field work in an educational institution or organization. Prerequisite: Consent of Program, Faculty and Chairperson of the Department. (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 5349 Vocational Educational Media (3). Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts. (S)

EVT 5660 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 socio-economic 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)

FAD 5495 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 coursework 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 6916 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, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 2410, HME 4230, or permission of instructor. (AR)

HME 5255 Independent Living for the Handicapped (3). Explores the home and personal living skills required to empower persons with mental and physical limitations to achieve their maximum independence. Suitable for students in special education, health, physical education, recreation, social work, home economics or anyone planning to work with elderly or handicapped. Approved for certification for teachers of the mentally retarded. (AR)

HSC 5455 Basic Driver Education (3). Content includes knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement. (AR)

HSC 5456 Advanced Driver Education (3). Content includes advanced skills for the teaching of driver’s education. Prerequisite: HSC 5455. (AR)

HSC 5465 Administration and Supervision of Driver Safety Education (3). Content includes competencies for teacher preparation and improvement in driver and traffic safety education. Prerequisites: HSC 5455 and HSC 5456. (AR)

LAE 5415 Children’s Literature (3). Available to undergraduate and graduate education majors. Provides knowledge and skill in critical analysis of purposes, strategies for teaching and evaluation of children’s literature. Prerequisites: RED 4150 and LAE 4314, or their equivalent. (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 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 coursework in education and subject matter area. (S)

LAE 6305 Instruction in Early Childhood Language Arts (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. Prerequisite: LAE 4314 or permission of instructor. (AR)

LAE 6355 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 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) (ARR). 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 and recreation with emphasis on special programs for young children, retarded, handicapped persons, and the elderly. (S)

LEI 5510 Program Administration in Parks and Recreation (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 Physical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of pre-design, 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)

LEI 5719 Client Assessment, Evaluation and Documentation in R.T. (3). The course addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands. (S)

LEI 5907 Directed Study in Parks and Recreation Management (3). An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor is required. (F,S,SS)

LEI 6577 Leisure Services Marketing (3). Advanced application of service marketing principles and practices to both public and private leisure service industry to improve both effectiveness and efficiency of operations. (S)

LEI 6725 Administrative Aspects of Therapeutic Recreation (3). An in-depth examination of issues related to the roles and responsibilities of the Activity Therapies/Therapeutic Recreation Administrator. (S)

LEI 6726 Problems, Issues and Trends in Therapeutic Recreation (3). An elective that provides an examination of current issues, trends and professionalization concerns in therapeutic recreation. (F)

LEI 6727 Disabling Conditions in Therapeutic Activity Services Administration (3). In-depth review of disabling conditions for the development of in-service training in recreational therapy and adapted activity services. (S)

LEI 6816 Leisure Education and Facilitation Techniques for Therapeutic Recreation (3). A focused survey of leisure education and counseling as applied in therapeutic recreation delivery systems. (F)

LEI 6922 Supervised Field Experiences in Parks and Recreation Administration (3-9). A practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required. (AR)


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. Supervised case study included. Prerequisite: MAE 4310, or permission of 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. (AR)

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 coursework 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 instructor. (AR)

MAE 6318 Instruction in Elementary Mathematics (3). Required in master's 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 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 instructor. (S)

MAE 6645C Workshop on Metric Education (1-3). A workshop on 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)
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. (F,S)

MHS 5400 Introduction to Counseling (3). Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling. (F,S)

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. (F,S)

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. (F)

MHS 6411 Advanced Counseling and Consultation: Theory and Practice (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. (F,S)

MHS 6428 Counseling the Culturally Different (3). Concepts and skills involved in counseling clients with backgrounds different from the majority culture. Prerequisite: MHS 5350. (F,S)

MHS 6500 Theories in Group Dynamics (3). Systematic examination of various theories and research used in study of small group phenomena. Prerequisites: MHS 5350, MHS 6513.

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 5350, MHS 6513, MHS 6514. (AR)

MHS 6512 Organization Development in Education (3). Analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: MHS 6513, MHS 6514. (S)

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. (F,S)

MHS 6514 Human Interaction II: Analysis of Group Participation (3). Participation in an ongoing 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. (F,S)

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, MHS 6513. (AR)

MHS 6629 Human Interaction II: 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. (S)

MHS 6700 Professional Problems in Counseling (3). Competencies in regard to the development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational setting. (F,S)

MHS 6800 Advanced Practicum in Counseling (3). Advanced competencies in counseling and consultation. Prerequisites: Coursework completion. (F)

MHS 6820 Supervised Field Experience in Counseling (10). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. (S)

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. (F,S)

MHS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Special topics in relation to counseling or school psychology. (SS)

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education. (F,S)

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 prerequlnice 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. (SS)

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. (SS)

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 Mu-
sic 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. 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 Fitness Instruction (3). The course prepares the student for the American College of Sports Medicine's Fitness instructor Certification examination. Prerequisite: PET 3351. (F)

PEP 5116 Exercise Specialist (3). The course prepares the student for the American College of Sports Medicine's Exercise Specialist Certification Examination. Prerequisites: PET 3351 and PET 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)

PET 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)

PET 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 5238 Motor Learning (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). The course prepares the student for the American College of Sports Medicine's Exercise Test Technology Certification examination. Prerequisite: PET 3351. (F)

PET 5436 Physical Education Curriculum (3). Examination of objectives, content, methods of teaching, and evaluative techniques in physical education. Emphasis on curriculum development and refinement of teaching skills. (AR)

PET 5625 Sports Medicine (3). The course 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,SS)

PET 5925 Practicum in Physical Education (1-3). Production and or 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 source 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, PET 5387, PEP 5115, and PEP 5116. (SS)

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 or 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,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 5447 Analysis and Production Reading Materials (3). Elective in graduate program in reading education. Exploration, creation, and evaluation of basic reading materials, commercial and non-commercial. Prerequisite: RED 4150 or equivalent. (AR)
RED 5448 Teaching Reading by Computer (3). Elective in graduate program in reading education. 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 Education (1-3). Elective in reading education. Directed study in area of reading instruction. Permission of instructor required. (F.S.SS)

RED 5925 Special Topics In Reading Education (3). Elective in master's program in reading education. Study in a specified area of reading education. (AR)

RED 6155 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 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 6336 Reading in the Content Areas (3). Required in graduate program in reading education and in secondary Modified Master's Programs. Strategies for developing the reading abilities of students in specific subject areas. (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 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 6546, RED 6515. (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 track. Deals with theory and practice of reading instruction. Prerequisites: Permission of 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 5435 Secondary Science Laboratories: Methods & Materials (3). Increase the quantity and quality of laboratory experiences for secondary students by managing the laboratory safely, selecting appropriate activities, and evaluating student performance. (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,S,S)

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 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 coursework in education and subject matter area. (F,S)

SCE 6141 Science Education in Society (3). This course analyzes the impact of scientific, technological, and social advances upon curriculum and instruction in science education. (AR)

SCE 6245 Science Education For High Achieving Students (3). Program options, instructional designs and materials, and evaluation of gifted and other high achieving science students will be addressed. (AR)

SCE 6306 Instruction In Early Childhood Science (3). Elective 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: SCE 4310 or permission of instructor. (AR)

SCE 6315 Instruction in Elementary Science (3). Elective in master's 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 instructor. (F,S)

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 the 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 6700 Professional Problems in Counseling (3). Competencies in regard to the development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational setting. (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: Coursework completion. (F, SS)

SDS 6820 Supervised Field Experience in Counseling (10). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. (F, S)

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. (F)

SPS 6192L Psycho-Educational Assessment II: Lab (2). Practical skills in the assessment of psycho-educational processes in children and their relationship to intellectual ability. Corequisites SPS 6192L for School Psychology majors. No corequisite for other majors. Corequisites SPS 6191. (S)

SPS 6193L Psycho-Educational Assessment III: Behavior (3). Competencies in behavioral and personal 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. Corequisites: SPS 6193. Prerequisites: SPS 6191, SPS 6192. (SS)

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)

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 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 coursework in education and subject matter area. (S)

SSE 6305 Instruction in Early Childhood Social Studies (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)

SSE 6355 Instruction in Elementary Social Studies (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)

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 6486. 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)

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 5325 Teaching ESOL through Content-Areas (3). This course is designed for the content-area teacher of language minority students. The course promotes understanding of the academic, linguistic, and social needs of limited English students. (AR)

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 in 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. (S)
College of Education

Dean I. Ira Goldenberg
Associate Dean Robert Vas
Academic Affairs
Associate Dean Robert Vas
Student and Community M. A. Bilbao
Services
Assistant Dean Carmen Mendez
Budget and Grants
Administration

Chairpersons
Educational Foundations John A. Carpenter
and Professional Studies
Education
Educational Leadership, Kingsley Banya
and Policy Studies
Educational Psychology Wendy Cheyney
and Special Education
Elementary
Education
Health Physical George E. O’Brien
Education and
Recreation

Subject Specializations
Education A. Dean Hauenstein

Coordinators/Directors
Coordinator of Doctoral Robert Vas
Programs
Director of Internship and Karyl Boynton
Student Teaching
Assistant Director of Student Marta Vazquez-Syms
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Rosenberg, Howard, Ed.D. (Teachers College, Columbia University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education

Ryan, Colleen A., Ph.D. (Ohio State University), Associate Professor, Educational Psychology.
<table>
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<tr>
<th>Name</th>
<th>Degree</th>
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<td>Sandiford, Janice</td>
<td>Ph.D.</td>
<td>(Ohio State University)</td>
<td>Associate Professor, Health</td>
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<td>Ph.D.</td>
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<td>Skalko, Thomas</td>
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<td>(University of Maryland)</td>
<td>Professor, Therapeutic Recreation</td>
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<td>M.S. Ed.</td>
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**Educational Foundations and Professional Studies**

**Organizational Training, and Vocational Education, Subject Specializations**

**Wagner, Michael J., Ph.D. (Florida State University)**, Professor, Music Education, Subject Specializations

**Wolff, Robert M., Ph.D. (Ohio State University)**, Associate Professor, Parks and Recreation, and Sport Management, and Chairperson, Health, Physical Education and Recreation

**Woods, Sandra L., Ed.D. (Rutgers University)**, Associate Professor, Educational Foundations and General Methodology, Educational Foundations and Professional Studies

**Zaragoza, Nina, Ph.D.** (University of Miami), Assistant Professor, Language Arts, Elementary Education
College of Engineering and Design
College of Engineering and Design

Gordon R. Hopkins, Dean
W. Kinzy Jones, Associate Dean
Iraj E. Majzub, Associate Dean
Gustavo A. Roig, Associate Dean
Lourdes A. Maneses, Director, Academic Support Services

The College of Engineering and Design is composed of two schools committed to the development of professionals who will serve the community in a wide variety of fields. In addition, there are two units in the College solely devoted to research and other creative activities.

Doctoral Degrees can be earned in the field of Electrical Engineering and Mechanical Engineering.

Master's Degrees can be earned in the following fields of study:
- Civil Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Environmental Engineering
- Environmental and Urban Systems Engineering
- Industrial Engineering
- Landscape Architecture
- Mechanical Engineering

The programs of the College are directed towards the practical use of scientific, engineering and technical principles to meet the objectives of industry, business, government and the public.

The College provides each student with the opportunity to develop marketable skills and to obtain an education which will prepare him or her for a rewarding career and personal growth.

Underlying the programs of the College is a recognition that the growing impact of technology upon the quality of life is increasing and that the proper application of technology is critical to meeting current and emerging human needs.

The College faculty is actively engaged in business, industry and government. Faculty members are participating in a variety of applied research projects in such areas as energy, transportation, solid waste disposal, biomedical devices and instrumentation, water resources, computer engineering, artificial intelligence, manufacturing, robotics, telecommunications, microelectronics, structural systems, biotechnology, etc.

School of Engineering

Doctor of Philosophy

The School offers Doctor of Philosophy degrees in 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.

Master of Science Degree Programs

The School offers Master of Science degrees in Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial and Systems Engineering, and Mechanical Engineering. The various curricula for the School 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 either program.

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 policies, 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 professional located throughout the State via video tape and ITFS.

Accreditation

The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) accredits engineering programs on a nationwide basis. Students wishing more information about accreditation should consult their department office or the Office of the Dean. All baccalaureate engineering programs are ABET accredited.

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 on educational opportunities such as scholarships, tuition waivers, internships, co-op studies and campus resources; serves as a liaison between the academic departments and the student support services university wide; facilitates the registration process in order to make sure that the students adhere to the colleges 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 Chairperson of 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 45 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 shall 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 in 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.

Civil and Environmental Engineering
L. David Shen, P.E. Associate Professor and Chairperson
Vinio Flores, Courtesy Professor
Hector R. Fuentes, P.E. Associate Professor
Dongzhou Huang, Visiting Research Associate
Sylvan C. Jollibols, Jr., Assistant Professor
Shonnal Laha, Assistant Professor
Young-Kyun Lee, Assistant Professor
Luis A. Prieto-Portar, P.E. Professor
Wolfgang F. Rogge, Assistant Professor
Lambert Tall, P.E. Professor
Zonghong Tang, Assistant Professor
Bernin Tansel, P.E. Assistant Professor
LeRoy E. Thompson, P.E. Professor
Vassilios A. Tsihrintzis, P.E. Assistant Professor
Oktay Ural, P.E. Professor
Tal-Low Wang, P.E. Associate Professor
Fang Zhao, Assistant Professor

Lehman Center for Transportation Research
L. David Shen, Director
Nil O. Altoh-Oklane, Research Associate
Jian Huang, Research Associate
Perry Mauli, Research Associate
Diana I. Osina, Research Associate
Allison Smith, Research Associate

Lehman Center for Transportation Research
L. David Shen, Director
Nil O. Altoh-Oklane, Research Associate
Jian Huang, Research Associate
Perry Mauli, Research Associate
Diana I. Osina, Research Associate
Allison Smith, Research Associate

Master of Science in Civil Engineering
Fang Zhao, Civil Engineering Graduate Advisor

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 or 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 36 semester credits of acceptable graduate coursework which includes a minimum of 12 credits of graduate courses in the specialty area.

Master of Science in Environmental Engineering
Hector R. Fuentes, Environmental Engineering Coordinator and Graduate Advisor

A Master of Science in Environmental Engineering is available to persons interested in graduate work in Environmental Engineering. The program is designed to give graduate students a broad base 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 at the time of admission or no later than at the end of the student's first semester. 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 as developed by the faculty may be considered for admission if they complete the required prerequisites and satisfy any deficiencies.
Admission Policies for all Graduate Programs
A student seeking admission into the graduate program must have a bachelor’s degree in Civil Engineering, Environmental Engineering, or other 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. 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 a 3.0 GPA.
2. A combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE).
3. Applicants who meet all other required criteria, except for requirement 1 or 2 above, may be evaluated for provisional admission.
4. Students who meet all criteria, except for requirements 1 and 2 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-609:

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.
   b. The applicant whose native language is other than English shall demonstrate proficiency in the English language by presenting a score of 550 or higher on the Test of English as a Foreign Language (TOEFL).

Application Procedures for all Graduate 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 Admission Office.
3. Submit scores on the Graduate Record Examination (GRE).
4. Foreign students must submit TOEFL scores.
5. It should be emphasized that the admission cannot be acted upon until all of the documents and credentials have been received.
6. Students applying under paragraphs 3 or 4 of the admission policies 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, the requirements of the core or the requirements of an approved program of study, or both. This program of study is developed by the student and his or her advisor and must be approved by the Supervisory Committee and by the Coordinator of the Program.
3. Complete a minimum of 36 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 engineering project.
6. Pass an oral examination that includes an oral defense of the thesis if the thesis option is taken.
7. Master’s degree students in Environmental Engineering must, in addition:
   a. Take ENV 6615 Environmental Impact Assessment.
   b. Select, with advisor approval at least two courses from the following:
      EES 5506 Occupational Health
      ENV 5105 Air Quality Management

ENV 5126 Air Pollution Control
ENV 5335 Advanced Hazardous Waste Treatment Processes
ENV 5356 Solid Wastes
ENV 5666 Water Quality Management
ENV 6045 Environmental Modeling
   c. Take a mathematics course as determined by the advisor for the thesis or project.
   d. Take at least one credit of ENV 6935 Environmental Graduate Seminar.
   e. Complete a minimum of nine credit hours of courses at the 6000 level.
   f. Complete six credit hours of ENV 6971 Thesis, or three credits of ENV 6916 Engineering Project.

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 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; (3) the course(s) are judged relevant by the faculty advisor, Supervisory Committee, or Coordinator of the Program; (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.

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-Environmental Engineering, Mechanics; EGN-Engineering,
General: ENV-Engineering, Environmental; TEE-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: Permission of instructor.

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: Permission of instructor.

CEG 5065 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: CEG 4011.


CEG 6105 Advanced Foundations Engineering (3). Computer applications involving the numerical analysis and design of complex soil-structure interactions: highway and airfield pavements, deep foundation groups and NATM tunnelling techniques. Prerequisites: CEG 4012C.

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 5565 Computer Applications in Structures (3). Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. 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 structural steel. Prerequisites: CES 4101, CES 4605.

CES 5715 Prestressed Concrete Design (3). The behavior of steel and 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 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 5320 GIS Applications in Civil and Environmental Engineering (3). Introduction to the basics of geographic information systems, their software and hardware, and their applications in Civil and Environmental Engineering, landscape architecture, and other related fields. Prerequisites: CGS 3420, SUR 3101C and consent of instructor.

CGN 5905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

CGN 5930 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 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, hydrology, water supply and wastewater, geotechnics, structures, concrete and steel design, etc.

CGN 6916 Engineering Project (1-3). Independent research work culminating in a professional practice oriented report for the non-thesis option of the M.S. degree. Prerequisites: Fifteen graduate credits and approved project plan.

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.

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: CEG 3356 and ENV 3621.

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 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/un-saturated zone, wells, pumping tests, quality-contamination control, analytical solutions, introduction to numerical models/computer codes. Prerequisite: Permission of instructor.

CWR 6126 Advanced Groundwater Hydrology (3). Finite difference/finite element/boundary integral methods, transport and fate of chemical and biologically reacting solutes, tracer tests, hydrological approaches to remedial action and monitoring. Prerequisites: CWR 6125, or permission of 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 bio-assays and early warning systems. Prerequisite: Permission of 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 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 5606 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 5608 Occupational Health and Toxicology (3). A continuation of EES 5606. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 5606.

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, assembly and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydroelasticity, etc. Prerequisite: EGM 3520.

EGM 5451 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of single and multi-degree of freedom structures, including lumped and distributed parameters systems. Prerequisite: MAP 3302.

EGM 5533 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 5653 Theory of Elasticity (3). 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. Prerequisites: EGM 3520, MAP 3302.


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. 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 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 instructor.

ENV 5062 Environmental Health (3). Study of the control and prevention of environmental-related diseases, 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 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 5100 or ENV 4101.

ENV 5126 Air Pollution Control (3). Air pollution control-devices, principles, efficiencies, costs. Gas scrubbers, electrostatic precipitation, thermal deposition, filters, condensers, after burners. By-product recovery. Stoichiometry of combustion mixtures and basic industrial plant
designs are discussed. Prerequisite: ENV 4101 or ENV 5105.

ENV 5335 Advanced Hazardous Waste Treatment Processes (3). Theories 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 5366 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 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, COD, alkalinity, hardness, ammonium, TKN, 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 main organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, pH, nitrate, nitrite, TKN, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512.

ENV 5517 Water and Wastewater Treatment (3). Wastewater collection systems; integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of instructor.

ENV 5669 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 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 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. A maximum of three credits are applicable towards degree. 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 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 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 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: ENV 6510 or ENV 6511.


ENV 6606 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Prerequisite: Permission of instructor and 24 graduate credits.

ENV 6651 Environmental 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 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 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 5205 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 5506 Urban Mass Transit and Transportation Planning (3). Models of urban growth, population forecasts, trip generation, trip distribution, and trip assignment models; model split, system evaluation, transit marketing. Prerequisite: TTE 4201.

TTE 5526 Airport Planning and Design (3). Theory and principles of airport planning and design, including both general aviation and major commercial airports. Design projects required. Prerequisite: TTE 5835 or consent of instructor.

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 5650 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 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 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 6837 Pavement Management Systems (3). Theory and principles of pavement management systems (PMS), including PMS at the project level, PMS software packages used for decision making process. Prerequisites: TTE 5835 or consent of instructor.

Electrical and Computer Engineering

James Story, Professor and Chairperson
Malek Adjouadi, Associate Professor
Jean Andrian, Associate Professor
Tadeusz Babij, Professor
Armando Barreto, Assistant Professor
Manuel Carejo, Professor
Thomas Gilbar, Instructor and Advisor
Mark Hagmann, Associate Professor
Malcolm Helmer, Associate Professor and Associate Chairperson
W. Kinzy Jones, Professor
Graver Larkins, Associate Professor
Osama Mohammed, Professor
Sylvia Mergul, Assistant Professor
Dong Park, Assistant Professor
Gustavo Roig, Associate Professor and Associate Dean
Abdul Samra, Assistant Professor
Pierre Schmidt, Professor
Subbarao Wunnava, Professor
Frank Urban, Associate Professor
Carolyne Van Vliet, Professor
Kang Yen, Associate Professor

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. Completed 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. Harcover 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. 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 taken only once.

Math Electives:

Select two courses with advisor approval.

EEL 5524 Statistical Communication Theory

EEL 6020 Numerical Analysis of Electrical Devices

MAA 4211 Advanced Calculus

MAA 4402 Complex Variables

MAD 3401 Numerical Analysis

MAP 4401 Advanced Differential Equations

MAP 5117 Mathematics and Statistics Modeling

STA 5446 Probability Theory I

STA 5447 Probability Theory II

STA 5800 Stochastic Processes for Engineering

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 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 and Design 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 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 6 credits it entails. 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 Network Engineering
- EEL 5725 Digital Systems Engineering I
- EEL 5741 Advanced Microcomputer
- EEL 6167 VLSI Design
- EEL 6726 Digital Systems Engineering II
- EEL 6575 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 6821 Computer Vision

Electives Computer Science: (9)
Courses may be selected by student and advisor from 4000, 5000, and 6000 level Computer Science course listings.
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 and Residency Requirements

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 6000 or 7000 level electrical engineering courses are required. EEL 5935, 6905, 6912, 6932, 6971, 6977, and 7980 are not considered coursework for the purpose of this 30 credit hour 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 MSEE degree must take this exam before completion of 28 graduate credit hours of course work. Failure to do this is cause 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 cause 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 coursework 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 of 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 coursework 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 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 disserta-
tion 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: EEL 4202 or permission of instructor.

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 instructor.

EEL 5145 Advanced Filter Design (3). Graduate course in the design and advanced analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140 or permission of instructor.

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 instructor.

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. Prerequisite: EEL 4213 or permission of instructor.

EEL 5275 Power Systems Protection (3). Analysis of power systems under faulted conditions using linear transformation. The study of surge, transient and waves on power lines. Computer-aided analysis and design emphasizing the protection of equipment. Prerequisite: EEL 4215 or permission of instructor.

EEL 5348 Digital Electronics (3). Analysis and design of logic gates using saturated and non-saturating elements, transmission gates, interfacing of logic families, bistable circuits, A/D and D/A converters. Prerequisite: EEL 4304.

EEL 5352 Bipolar Junction Transistors (3). Bipolar junction transistor physics. Semiconductor bulk properties at equilibrium and nonequilibrium, PN junction theory. Theory of the bipolar junction transistor. Prerequisite: EEL 3396 or permission of instructor.

EEL 5353 Field Effect Transistors (3). Field effect device physics and technology. MOS capacitor, DC and AC characteristics of the MOS transistor. The MOS transistor in dynamic operation. Prerequisites: EEL 3396 or permission of instructor.

EEL 5366 Industrial Electronics (3). A study of solid state devices for the control of power, their applications and limitations in power switching circuits and in the control of physical transducer. Prerequisites: EEL 4213, EEL 4304 or permission of instructor.

EEL 5371 High Frequency Amplifiers (3). Analysis and design of high frequency amplifiers and oscillators: stability, scattering parameters, use of the Smith chart and other practical design tools, noise. Prerequisites: EEL 4304, EEL 4410 or permission of instructor.

EEL 5437 Microwave Engineering (3). Microwave guides. Microwave tubes. Microwave solid state devices. Microwave integrated circuits. Microwave enclosures. Prerequisite: EEL 4410 or permission of instructor.

EEL 5482 Fields and Waves Engineering (3). Concepts and theorems in fields and waves, analytic techniques for guided waves, radiation and scattering, numerical techniques for analysis of electrical devices using digital computers. Prerequisite: EEL 4410 or permission of instructor.

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 instructor.

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 instructor.

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.

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 instructor.


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. Prereq-
uates: EEL 5501 or permission of instructor.

EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4709 or permission of instructor.

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 Instructor.

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 instructor.

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.

EEL 5820 Digital Image Processing (3). Human vision, digital imaging. Image transforms, image enhancement, image restoration, image compression, edge detection, shape analysis, depth information, texture analysis, and vision systems. Prerequisites: EEL 3135 and knowledge of any programming language (FORTRAN, Pascal, C).

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 instructor.

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 implementation of implantable devices. Prerequisites: EEL 4202 and EEL 6505 or permission of instructor.

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 instructor.

EEL 6078 Therapeutic Medical Electronics (4). Operating principles and design methods for therapeutic electronic devices including: myoelectric prosthetic devices, cardiac pacers, nerve and muscle stimulators. Includes laboratory. Prerequisite: EEL 5071.

EEL 6081 Advanced Medical Imaging (3). Teaches operating principles and design techniques for hardware and software used in CAT and MRI medical imaging systems. Also study other techniques such as PET and nuclear medicine. Prerequisite: EEL 5085.

EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop equations and node pair equations, state space network, computer solutions. Prerequisite: EEL 3112 and FORTRAN or permission of instructor.

EEL 6167 VLSI Design (3). Study of VLSI Design concepts in MOS/CMOS environment, CAD techniques, VLSI array processors and wavefront of array processors, and implementation of array processors. Prerequisites: EEL 5741, EEL 4541.

EEL 6207 Dynamic Analysis of Electrical Machines (3). State models of rotating machines, derivation of machine model parameters, modeling of machine and power system dynamics. Includes utilization of digital computers to selected practical problems. Prerequisite: EEL 4213 or permission of instructor.

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.

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. Prerequisites: EEL 4213, EEL 3303, EEL 3657.


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 instructor.

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 instructor.

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 instructor.

EEL 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics networks. Advanced analysis, modeling and computer simulation of op amps. Analog design techniques and practical examples are covered. Prerequisite: EEL 4314 or permission of instructor.

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 instructor.

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 3306, EEL 4304 or permission of instructor.
EEL 6332 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.

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.

EEL 6382 Solid State Device Physics and Technology I (3). Field-effect phenomena, metal-oxide silicon capacitor, atomicscale phenomena. Interface trap properties from the conductance and capacitance non-uniformities. Prerequisite: EEL 5353.

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 instructor.


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.

EEL 6434 Microwave Solid State Devices (3). Microwave transistors and tunnel diodes, microwave FET, transferred electron devices (TEDS), avalanche transit-time devices, monolithic microwave integrated circuits. Prerequisite: EEL 5437.

EEL 6443 Electo-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 instructor.

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 instructor.

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.

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 instructor.

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 instructor.

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.

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 instructor.

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 instructor.

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 instructor.

EEL 6666 Intelligent Electronic Machine Design (3). Design of electronic systems with sensors and transducers, to function as an integrated expert system in process control and industry. Computer vision, image processing and robotics. Prerequisites: EEL 4304, EEL 3712 and EEL 4746 or permission of instructor.

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.

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 instructor.

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 instructor.


EEL 6821 Computer Vision (3). Mathematical foundation and design considerations of Computer Vision. From understanding of the visual machinery of the brain to the practical design of computer vision software/hardware. Prerequisite: EEL 5820.

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.
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 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 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, Assistant Professor
Chin-Sheng Chen, Associate Professor
F. Frank Chen, Associate Professor
Joe Chow, Associate Professor
Khoklat Kengslool, Associate Professor
メンバー Lulu, Associate Professor
Sergio Martinez, Instructor
German Nunez, Associate Professor
Marc Resnick, Assistant Professor
Fredrick Swift, Professor

Master of Science in Industrial Engineering
Chin-Sheng Chen, 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.
3. Applicants meeting only one of the two requirements in no. 2 will be evaluated by the department admissions committee for probationary admission. 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 500 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 hour credit Graduate Seminar (EIN 6932) is required course to all MSIE students. Each student is required to select a concentration area as part of the seminar course. Pre-requisite 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 pre-requisite courses:

EIN 3123 CAD or equivalent
EIN 3235 Evaluation of Engineering Design or equivalent
EIN 3311 Statics or equivalent
EIN 4243 Human Factors
EIN 4214 Work Design and Ergonomics

and must take the following core courses:
EIN 6392 Graduate Seminar 1
EIN 6248 Advanced Ergonomics 3
EIN 6319 Advanced Work Design 3
EIN 5249 Occupational Biomechanics 3
EIN 6971 Master's Thesis 6
Elective graduate courses 15
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 manufacturing functions in design, planning, and control of modern manufacturing systems. Students in this area must have the following prerequisite courses:
- EIN 3390 Manufacturing Processes
- EIN 3123 CAD
- ESI 3314 Generic Models or equivalent

EGN 3355 Materials in Engineering
and must take the following core courses:
- EIN 6932 Graduate Seminar 1
- EIN 6398 Advanced Manufacturing Process Engineering 3
- EIN 6392 Product Design for Manufacturability and Automation 3
- ESI 6316 Applications of OR in Manufacturing 3
- EIN 6971 Master’s Thesis 6
- Elective graduate courses 15

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 pre-requisite courses:
- EIN 3235 Evaluation of Engineering Data or equivalent
- EIN 3354 Engineering Economy
- EIN 3523 Simulation Models of Industrial Systems or equivalent

and must take the following core courses:
- EIN 6932 Graduate Seminar 1
- ESI 6316 Applications of OR in Manufacturing 3
- STA 6246 Data Analysis I 3
- ESI 6524 Applied Industrial Systems Simulation 3
- EIN 6971 Master’s Thesis 6
- Elective graduate courses 15

Manufacturing Engineering Track
Chin-Sheng Chen, Program Coordinator
The track program is tailored for engineers in the manufacturing industry or those entering the industry. It is an interdisciplinary and terminal degree program with its emphasis on practices and hands-on experience. Students will be exposed to a full range of manufacturing engineering functions and 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 also:
1) have a Bachelor of Science degree in engineering or a closely related field from an accredited institution,
2) have a "B" average in the upper level course work and a score of 1000 on the Graduate Record Examination (verbal and quantitative combined).

Applicants who meet all other required criteria, except for requirement 1) or 2) above, may be evaluated for provisional admission. Applicants who meet all criteria except for requirements 1) and 2) above, may 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 TOEFL and obtain a score of 500 or better.

Program requirements
The Manufacturing Engineering track program requires 30 semester hour credits of course work and completion of an industrial project. Each student’s program of study will be designed to fit the student’s goals, and approved by the program coordinator and the student’s project advisory committee. Each student must take four manufacturing engineering core courses (12 credits) and complete an industrial project as detailed in the Student’s Manual. In addition, each student must meet the following course requirements.

1. a graduate course (3 credits) from the product and process design area,
2. a graduate course (3 credits) from the manufacturing operations management area.
3. two graduate courses (6 credits) from the manufacturing processes and control area, and
4. two graduate courses (6 credits) from the manufacturing systems design and operations area.

Listings of recommended courses
The courses listed below for each of the four subject areas represent recommended courses only. The student may elect other non-listed graduate courses to meet the program requirements. However, he/she must first consult 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 and Process Design
- EEL 6167 VLSI Design
- EIN 5332 Quality Engineering
- EIN 6392 Product Design for Manufacturability and Automation
- EML 5530 Intermediate CAD/CAE
- EML 6532 Advanced CAD/CAE
- EML 5509 Mechanical Design Optimization
- EML 6805 Advanced Design of Robots

Manufacturing Operations Management
- ACG 6026 Accounting for Managers
- EIN 5322 Engineering Management
- EIN 5359 Industrial Financial Decisions
- FIN 6428 Financial Management
- MAN 6245 Organizational Behavior
- MAN 6321 Personnel Selection and Placement
- MAN 6351 Personnel Training and Development
- MAN 6405 Labor Relations
- MAN 6411 Collective Bargaining
- MAN 6585 Productivity Management Seminar
- MAN 6608 International Business
- MAN 6617 Managing Global Production and Technology
- MAN 6726 Strategic Management
- MAN 6805 Entrepreneurship
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MAN 7275  Organizational Behavior Management
MAN 7305  Human Resources Management
MAN 6051  Organization and Management Process

Manufacturing Processes and Control
EEL 5366  Industrial Electronics
EEL 5718  Computer Communication Network Engineering
EEL 5741  Advanced Microprocessor Systems
EEL 5820  Digital Image Processing
EEL 6207  Dynamic Analysis of Electrical Machines
EEL 6443  Electro-optical Devices and Systems
EEL 6666  Intelligent Electronic Machine Design
EEL 6821  Computer Vision
EIN 6397  Advanced Topics in Manufacturing Automation
EIN 6398  Advanced Manufacturing Process Engineering
EGM 5354  Finite Element Method Application
EMA 5935  Advanced Topics in Material Engineering
EML 5385  Identification Techniques of Mechanical Systems
EML 5562  Advanced Electronic Packaging
EML 5825  Sensors and Applied Machine Intelligence

Manufacturing Systems Design and Operations
EIN 5605  Robotic Assembly Cell
EIN 6117  Advanced Industrial Information Systems
EIN 6367  Design of Production Systems
EIN 6319  Advanced Work Design
EIN 6345  Inventory Control Systems
EIN 6357  Advanced Engineering Economy
EIN 6316  Advanced Production Planning and Control
ESI 6316  Application of OR in Manufacturing
ESI 5624  Applied Industrial Systems Simulation

Course Description

Description of Prefixes
EIN-Engineering, Industrial; ESI-Engineering Systems Industrial.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

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)

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. (SS)

EIN 6248 Advance 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 aircraft 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 physiologic 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. (F)

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-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395. (S)

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 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 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 6524 Applied Industrial Systems Simulation (3). Advanced simulation techniques with a focus on practical systems modelling using several user-oriented simulation languages. Projects involving design of high-performance simulation programs are required. Prerequisite: ESI 3523. (S)

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.

Mechanical Engineering

M. Ali Ebadian, Professor and Chairperson
Danny Bluestein, Visiting Assistant Professor
Yiding Cao, Assistant Professor
Genady Cherapanov, Professor
Zhifeng Dong, Visiting Assistant Professor
Ying Gao, Visiting Assistant Professor
Carmen Goldberg, Visiting Counselor/Instructor
Gordon Hopkins, Professor and Dean
Wel Jiang, Research Associate
W. Kinzy Jones, Professor
Rene Leonard, Associate Professor
Cesar Levy, Associate Professor
James E. Moore, Jr., Assistant Professor
Norman Munroe, Assistant Professor
Mordechai Perl, Courtesy Professor
Zhongjie Pu, Visiting Professor
Luis Pujol, Visiting Associate Professor
Richard Schoephoerster, Assistant Professor
Ebrahim Shirazinedjad, Assistant Professor
Fredrick Swift, Professor
Ibrahim Tansel, Associate Professor
Sabi Tosunoglu, Assistant Professor
Qian Wang, Assistant Professor
Kuang-Hsi Wu, Associate Professor
Gao Yang, Visiting Assistant Professor
Tachung Yih, Associate Professor

Master of Science in Mechanical Engineering

Kuang-Hsi Wu, Graduate Studies Coordinator

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 of 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/or a combined score of 1000 on the Graduate Record Examination (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 500 or better.

5. The GPA, GRE and TOEFL scores above are to be considered minimum requirements for admissions. Applicants from science areas other than mechanical 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 departmental chairperson and 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 a minimum of 36 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, provided that the courses have not been used for another degree; it must be approved by the committee.

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 course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

8. Attended one semester of the ME Graduate Seminar prior to graduation and give at least one presentation in the seminar.

9. Complied with all University policies and regulations.

Thesis Option

A student shall complete a minimum of 30 semester credit hours of course work, a minimum of six semester credit hours of EML 6971, Master Thesis, and one semester of the ME Graduate Seminar.

The course requirements include a minimum of 12 hours of 6000-level course credit and 24 hours at the 5000-6000 level in Mechanical Engineering, including thesis. Out of this 24 hours a maximum of nine credit hours of courses offered by other departments may be accepted; a maximum of three credit hours of Independent studies, EML 6908, may also be counted toward the degree, by approval only. A maximum of nine graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and must have a letter grade of 'B' to transfer. It must be approved by the committee on graduate studies.

Upon 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.

Non-Thesis Option

(By petition only)

A student shall complete 36 semester credit hours of technical course work, and one semester of the ME Graduate Seminar.

The course work requirements include a minimum of 12 hours of 6000-level course credit and 24 hours at the 5000-6000 level in Mechanical Engineering. Out of this 24 hours a maximum of nine credit hours of courses offered by other departments may be accepted; a maximum of three credit hours of Independent studies, EML 6908, may also be counted toward the degree, by approval only. A maximum of nine graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree, courses must have a letter grade of ‘B’ to transfer. It must be approved by the committee on graduate studies.

The candidate is required to pass a comprehensive final examination. This examination is given near the end of the candidate’s final semester by a committee composed of three faculty members appointed by the Department. A student who fails the examination may not attempt it again until one semester has elapsed or until additional work prescribed by the examining committee is completed. The student may retake the examination only once. The examination will test the student’s general ability in his or her areas of study as determined by the student’s supervisory committee.

Areas of Specialization

Air Conditioning and Refrigeration
Bioengineering/Biomechanics
Computer Aided Design
Energy Systems
Finite Element Analysis
Fluid Mechanics
Fracture Mechanics
Heat Transfer
Electronic Packaging
Material Science

Course Requirements
All MSME degree seeking students must take the following three courses or equivalent and one seminar as common core courses:

EGM 5315 Intermediate Analysis of Mechanical Systems 3
EGM 5346 Computational Engineering Analysis 3
EML 6935 Graduate Seminar 1

Select one of the following two courses with advisor approval:

EGM 5354 Finite Element Method Application in Mechanical Engineering 3
EGM 6422 Advanced Analysis of Mechanical Systems 3

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

CAD/CAM/Manufacturing Area:

EML 5530 Intermediate CAD/CAE 3
EML 5385 Identification Techniques of Mechanical Systems 3

An additional 15 credit hours are to be taken from the following Mechanical Engineering courses. (Up to a maximum of six semester hours may be taken from courses offered by other departments).

EGM 5354 Finite Element Method Application in Mechanical Engineering 3
EGM 5615 Synthesis of Engineering Mechanics 3
EGM 6422 Advanced Analysis of Mechanical Systems 3
EGM 6570 Fracture Mechanics 3
EGM 6586 Fluid Mechanics Applications in Physiological Systems 3
EGM 6587 Applied Biomedical and Diagnostic Measurements 3
EGM 6588 Solid Mechanics Applications in Physiological Systems 3
EMA 5295 Principles of Composite Materials 3
EMA 5507C Analytical Techniques of Material Sciences 3
EMA 5935 Advanced Topics in Material Engineering 3
EMA 6127C Advanced Physical and Mechanical Metallurgy 3
EMA 6165C Polymer Physics and Analytical Techniques 3
EMA 5103 Intermediate Thermodynamics 3
EMA 5104 Classical Thermodynamics 3
EMA 5125 Classical Dynamics 3
EMA 5152 Intermediate Heat Transfer 3
EMA 5385 Identification Techniques of Mechanical Systems 3
EMA 5509 Mechanical Design Optimization 3
EMA 5530 Intermediate CAD/CAE 3
EMA 5562 Advanced Electronic Packaging 3
EMA 5606C Advanced Refrigeration and Air Conditioning Systems 3
EMA 5615C Computer Aided Design in Air Conditioning Systems 3
EMA 5908 Advanced Design of Thermal and Fluid Systems 3
EMA 5709 Intermediate Fluid Mechanics 3
EMA 5825 Sensors and Applied Machine Intelligence 3
EMA 6153C Advanced Heat Transfer 3
EMA 6154 Conduction Heat Transfer 3
EMA 6155 Convection Heat Transfer 3
EMA 6157 Advanced Radiation Heat Transfer 3
EMA 6223 Advanced Mechanical Vibrations Analysis 3
EMA 6233 Fatigue and Failure Analysis 3
EMA 6532 Advanced CAD/CAE 3
EMA 6712C Advanced Fluid Mechanics 3
EMA 6714 Advanced Gas Dynamics 3
EMA 6725 Computational Fluid Dynamics 3
EMA 6805 Advanced Design of Robots 3
EMA 6908 Independent Studies 3

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 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 500 points for non-English speaking natives

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 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 requirement:
Applicants having a Bachelor’s Degree in Mechanical Engineering are required to complete at least 90 credit hours, of which 66 hours are for course work and 24 hours are for dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

1. At least 18 credits 5000 level
2. At least 21 credits 6000 level or higher, not to include dissertation
3. Minimum 9 semester credits in Mathematics
4. Maximum 18 credits outside the areas of Mathematics and Mechanical Engineering with advisor’s approval,
5. Minimum 24 credit of dissertation

A maximum of 6 semester hours of graduate credit earned from another accredited institution in a non-degree-seeking status 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 transfer a maximum of 36 semester hours. Course requirements completed at this university shall include at least 30 credit hours earned in academic courses which are part of the doctoral program, and a minimum of 24 credits of dissertation.

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 I
MAD 5405 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 Proe for Engineers
STA 5505 Nonparametric Methods
STA 6166 Statistical Methods I
STA 6167 Statistical Methods 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. These two courses are in the process of being upgraded to graduate level courses by the Math department.

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
EML 5709 Intermediate Fluid Mechanics

Dissertation: 24 credits
Electives Courses: An additional 39 credit hours if student has a Bachelor’s degree. Possible elective courses from the Mechanical Engineering department include:

Thermo/Fluid
EGM 6586 Fluid Mechanics Application in Physiological Systems
EGM 6587 Applied Biomedical & Diagnostic Measurements
EGM 6588 Solid Mechanics Applications in Physiological Systems
EML 5103 Intermediate Thermodynamics
EML 5104 Classical Thermodynamics
EML 5152 Intermediate Heat Transfer
EML 5606C Advanced Refrigeration & A/C Systems
EML 5615C Computer Aided Design in A/C
EML 5708 Advanced Design of Thermal and Fluid Systs
EML 6153C Advanced Heat Transfer
EML 6154C Conduction Heat Transfer

EML 6155 Convection Heat Transfer
EML 6157 Advanced Radiation Heat Transfer
EML 6712C Advanced Fluid Mechanics
EML 6714 Advanced Gas Dynamics
EML 6725 Computational Fluid Dynamics

Mechanics/Materials
EGM 5346 Computational Engineering Analysis
EGM 5354 Finite Element Method Appl in ME
EGM 6570 Fracture Mechanics
EMA 5295 Principles of Composite Materials
EMA 5507C Analytical Techn. of Materials in Engineering
EMA 5935 Advanced Topics in Mechanical Engineering
EMA 6127C Advanced Physical & Mechanical Metallurgy
EMA 6165C Polymer Physics & Analytical Techniques
EML 5509 Mechanical Design Optimization
EML 5125 Classical Dynamics
EML 5385 Identification Techniques of Mech. Systs
EML 5562 Advanced Electronic Packaging
EML 6233 Fatigue and Failure Analysis
EML 6805 Advanced Design of Robots

CAD/CAM/Manufacturing
EML 5385 Identification Techniques of Mechanical Systems
EML 5509 Mechanical Design Optimization
EML 5562 Advanced Electronic Packaging
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 a Ph.D. M.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
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 Proposals 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 since admission, and a student who enters the Ph.D. program with a masters degree must take the QE no later than the beginning of the 2nd year since admission, and must pass Qualifying Exam by the first semester of the second year. Students may petition for exceptions to the graduate student committee. Student who fail may retake the exam one time only.

II. Proposal Defense (PD)
Proposal Defense will be presented by the student in the form of a Graduate Seminar in which he or 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 test acquisition of Ph.D. level knowledge in major field of research. Examination will be developed by student’s dissertation committee.

Core areas, it must be taken before the end of the 2nd semester of the Year 3.

IV. Final Defense (FD)
There will be a public defense in terms of a graduate seminar. The student can fail defense at most, twice.

Final Defense should be presented no later than 4th year after masters degree and no later than 6th year after bachelor degree.

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 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 - Engineering Mechanics; EGN - Engineering; General; EMA - Engineering; Materials; EML - Engineering; Mechanical

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 solution of the governing equations will be studied. Fluid and thermodynamic systems will be emphasized in this course. Prerequisite: EGM 3311 or permission of 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: CGS 3420 or equivalent, MAP 3302, EML 3222, EML 3126, EML 4140, or permission of instructor.

EGM 5354 Finite Element Method Application 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: CGS 3420, EMA 3702, and EML 4140.


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 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 Instructor.

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 Application 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 machine, dialysis units and heart valves will be discussed. Prerequisite: EGM 4580 or permission of instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of measurement systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging techniques, and electrical safety. Prerequisite: EGM 4580 or permission of instructor.

EGM 6588 Solid Mechanics Application in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of musculoskeletal system and trauma. Design application in orthotics and prosthesis and heart valve. Prerequisite: EGM 4580 or permission of instructor.


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 instructor.

EMA 5507C Analytical Techniques of Materials Sciences (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: EGN 3365.

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: EGN 3365.

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 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 instructor.

EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and Legendre transformations; Maxwell relations; first and second order phase transitions. Prerequisites: EML 3101 and EGM 3311.

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 current interest. 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 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 instructor.

EML 5530 Intermediate CAD/CAE (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for modern kinematic systems will be emphasized. Prerequisites: EML 4535, or permission of 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 instructor.

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, thermoelectric, solar heating and cooling systems.

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. Prerequisite: EML 4601, EML 4603.

EML 5708 Advanced Design of Thermal and Fluid System (3). Advanced designs 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, se-
lected exact and approximate equations. Prerequisite: EML 3126.

EML 5825 Sensors and Applied Machine Intelligence (3). The sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Prerequisites: EML 4312, Production Machine Modeling and Design, or equivalent, or permission of 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 Multi-dimensional 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 convection heat transfer. Prerequisite: EML 4140.

EML 6157 Advanced Radiation Heat Transfer (3). Introduce the graduate student to heat transfer by radiation for steady and unsteady on and multi-dimensional 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 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechanics principles to high speed flows. Flows to be studied include flows with friction and heat loss/addition. Prerequisite: EML 4711.


EML 6805 Advanced Design of Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisite: EML 3222, EML 3262, 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 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 three credits per semester. Total of six credits to be earned for the Master's Degree. Prerequisite: Advisor's permission.

Engineering Professional Development

Nell Hout-Cooper, Director

Florida Engineering Education Delivery System (FEEDS) provides graduate engineering education courses to place-bound professionals located throughout the State via video tape and ITFS.

STAC, The Southern Technology Applications Center (STAC) is an important link in a far reaching network of technology transfer resources sponsored by the State University System of Florida and the National Aeronautics and Space Administration (NASA). STAC functions as the NASA Southeast Regional Technology Transfer Center (RTIC) to assist private sector clients in obtaining and applying technology and critical knowledge to produce technological innovation on scales. It also provides proactive linkages with a wide range of universities, government and industry organizations to help companies commercialize technology and remain competitive in the marketplace.


Satellite downlinks for presentation of national seminars on topics relating to manufacturing engineering, quality management, and SIBC proposals.
School of Design

Iraj Majzub, Professor, Interim Director and Associate Dean
Leonardo Alvarez, Associate Professor
Edward T. Baker, Assistant Professor
Juan A. Buena, Associate Professor and Program Coordinator
Joseph Ford, Visiting Assistant Professor
Leonie Hermantin, Visiting Instructor
Robert Mitchel, Visiting Assistant Professor

Master of Landscape Architecture

J.A. Bueno, Coordinator

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 southern 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 Park, 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 Design 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 professional undergraduate degree in 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 of the American Society of Landscape Architects. The Post-Professional Degree Option is intended for individuals with an undergraduate degree in landscape architecture, or with a graduate degree in a planning or design discipline who wish to pursue advanced professional study.

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. 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.

- Landscape Architectural Design: 36 credits
- Design Implementation: 18 credits
- History and Theory: 6 credits
- Professional Practice Studies: 12 credits
- Research Specialization: 12 credits

Individuals with an undergraduate degree in planning, urban design, or architecture from an accredited professional program, or with a pre-professional undergraduate degree in planning, landscape architecture, urban design, or architecture may be granted advanced standing, not to exceed 30 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 24 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 residence are normally required. However, a part-time study option is available subject to the review of the Program. Satisfactory completion of 60 credits in the following course of study is required.

- Landscape Architectural Design: 24 credits
- Elective Courses: 36 credits

Master of Science in Environmental and Urban Systems

Iraj E. Majzub, Coordinator

Admission Requirements

The School of Design coordinates an interdisciplinary graduate program leading to a Master of Science degree in Environmental and Urban Systems (M.E.U.S.). The purpose of the M.E.U.S. 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.

Program

The M.E.U.S. program presently offers four areas of concentration: Policy Planning, Planning and Design, Environmental Planning, Infrastructure. In addition to satisfying the requirements of their chosen area of concentration, all students are expected to complete a core curriculum. These series of courses which cover subjects such as planning theory, history, law, serve to acquaint students with a broader view of planning.

The program of study requires the completion of at least 36 graduate semester credits, including a final project or a thesis. Program of studies must be approved by a faculty advisor.

Concentrations

Policy Planning

Policy planning describes the function of planners who work either in traditional planning offices or in a managerial capacity at the city, state or regional levels. Policy planners make recommendations based on their substantive knowledge, analytical skills and on a general understanding of the political and economic system.

Students choosing this concentration are encouraged to take advantage of the numerous courses offered throughout the University in study areas relevant to their respective interests.

Environmental Planning

The Environmental Planning concentration prepares students to be
articulate and knowledgeable about complex environmental issues facing contemporary society. The program provides students with general understanding of how biophysical systems function and a basic understanding of methodologies and techniques commonly used in environmental planning.

Land Use/Design

The objective of this concentration is to increase the student's understanding of the principles, processes, and procedures of physical planning and urban design. Emphasis is placed upon developing an awareness of the importance of preparing plans and designs that are sensitive and responsive to the environment of which they are part, as well as the social and economic needs of their users.

Infrastructure

The Infrastructure concentration prepares students to address and deal with the relationship between the applicable infrastructure technology and land use patterns. One example of infrastructure planning is Transportation Planning. Transportation planners develop transportation and traffic plans, estimate/forecast travel patterns and the associated demands of transportation networks.

The applicant must meet the general University admission requirements and should have completed an undergraduate major in environmental or urban systems, environmental studies, engineering, architecture and related areas, the natural sciences or a related field. Students who do not meet the stated criteria may be considered for admission if they have completed certain prerequisites and have work experience or other qualifications in the field. Additional courses may be required for some areas of specialization.

Additional Requirements:

1. A 'B' average in upper level undergraduate work, and an overall 3.0 GPA,
2. A combined score of 1000 on the Graduate Record Examination (GRE); or
3. A graduate degree from an accredited institution.

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.

1. Eligible foreign 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.
   b. The applicant whose native language is other than English shall 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

To be eligible for a Master's degree in the area of Environmental and Urban Systems, a student must:

1. Satisfy all University requirements for a Master's degree.
2. Meet any undergraduate deficiencies, the requirements of the core and a track, and complete a specific program of study.
3. Complete a minimum of 36 semester hours of graduate level courses. (Not more than six graduate credit semester hours can be transferred from other accredited institutions).
4. Achieve a 'B' average or higher in all graduate work.
5. Complete an acceptable graduate thesis or graduate project.

Awards and Scholarships

The following scholarships and awards are presented to students fully admitted to the Graduate Program in Landscape Architecture who have demonstrated outstanding achievements in their studies.

American Society of Landscape Architects Awards. On nomination by the Program faculty, the American Society of Landscape Architects awards a Certificate of Honor and a Certificate of Merit to the two students who have demonstrated a high degree of academic scholarship and of accomplishments in skills related to the art and technology of landscape architecture.

Sigma Lambda Alpha Honor Society. Each year, upon nomination by the Program faculty, the Alpha Chi Chapter of the Sigma Lambda Alpha Honor Society inducts the outstanding students in the Program.

The Ernest and Virginia Makemson Memorial Endowed Scholarship Fund. This fund provides support for students who have demonstrated interest and experience in restoring and preserving Florida's natural and cultural environment through the practice of landscape architecture.

Ownership of Student Work

Student work, submitted to the School in satisfaction of course or degree requirements, becomes the physical property of the School. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, and other materials. The School assumes no responsibility for safeguarding such materials. At its discretion, the School may retain, return, or discard such materials. The School will not normally discard the materials of currently enrolled students without giving the student a chance to reclaim them.

Course Descriptions

Definition of Prefixes

ARC-Architecture; IND-Interior Design; LAA-Landscape Architecture
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ARC 5176C Computer Practices in Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. Application of ARC 5175. Prerequisite: ARC 5175 or equivalent. (SS)

ARC 5916 Innovations in Building Technology (3). Experimental approach to new materials and methods applicable to the field of construction. Prerequisite: Permission of instructor. (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 5335 Site Development (3). Issues, controls, and methods pertinent to the physiographic, topographical, and cultural determinants of site development. Prerequisite: LAA 5652 or equivalent. (F)

LAA 5371 Computer Practices in Design I (3). Introduction to computer applications in landscape architecture. Prerequisites: LAA 5653. (SS)

LAA 5424 Landscape Construction I (3). Study of materials and methods used in landscape construction. Introduction to manipulation and calculation of site work. Prerequisite: LAA 5535. (S)

LAA 5425 Landscape Construction II (3). Production of a set of landscape construction documents, including drawings and project manual with bidding documents, contract documents and technical specifications. Prerequisite: LAA 5424. (F)

LAA 5521 Tropical Landscape Systems I (3). Overview of natural and cultural aspects pertinent to the planning, design and management of Florida's tropical and subtropical landscapes. Prerequisite: Program approval. (F)

LAA 5652 Interdisciplinary Design Studio I (6). Introduction to two- and three-dimensional representational techniques. Fundamental geometric constructions, spatial theory, three-dimensional perception, and color theory. Programmed designs are executed. Prerequisite: Program approval. (F)

LAA 5653 Landscape Architectural Design I (6). Introduction to the design process and sources of form in landscape architecture. Projects focus on spatial composition and the use of landscape materials in the solution of design problems. Prerequisite: LAA 5652. (S)

LAA 5715 History and Theory of Architecture (3). Overview of architectural history and theory from the beginnings of western architecture and urban design 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 Landscape Architectural Practice (3). Topics to be covered include economic viability, organizational structure, intra-office relationships, management systems, task definition, and computer applications. Prerequisite: LAA 5371. (S)

LAA 6222 Landscape Architectural Communication (3). Methods and techniques for the effective communication of landscape architecture values to the profession and public. 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 post modern landscape architecture and urban design. Prerequisite: LAA 5235 and LAA 5716. (SS)

LAA 6342 Landscape Aesthetics (3). This course explores values of natural, rural, industrial and urban landscapes. Emphasis is on aesthetic perception and the relationship to the design process. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6382 Methods of Environmental Analysis (3). Primarily through case studies, this course will explore the methods available to the landscape architect for analyzing land resource data and applying the results to land management and environmental design. Prerequisites: LAA 5521. (SS)

LAA 6541 Tropical Landscape Systems II (3). Study of the natural and cultural aspects pertinent to the planning, design and management of the world's tropical and subtropical landscapes. Prerequisite: LAA 5521. (S)

LAA 6544 Tropical Landscape Systems III (3). Application of the natural and cultural aspects pertinent to the planning, design, and management of sustainable tropical and subtropical landscapes. Prerequisite: LAA 6541. (SS)

LAA 6654 Landscape Architectural Design II (6). Planning and design studio on the issues of recreational land use at a range of project scales. Emphasis on environmentally significant sites in tropical and subtropical landscapes. Prerequisite: LAA 5653. (F)

LAA 6655 Landscape Architectural Design III (6). Planning and design studio on the issues of residential land use at a range of project scales. Emphasis on culturally significant sites in tropical and subtropical landscapes. Prerequisite: LAA 6654. (S)

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

LAA 6835 Interdisciplinary Design Studio II (6). Work on selected projects with graduate students in architecture, urban and regional planning and/or building construction. Landscape architecture faculty involvement. Prerequisite: LAA 6655. (F)

LAA 6905 Independent Study (1-3). Individual studies under supervision of faculty, tutor, or advisor. Consent of tutor and faculty chairperson required. Prerequisite: Program approval. (F,S)

LAA 6915 Supervised Research (1-5). Each student must engage in supervised work under a principal investigator on either a proposal for funding or a funded project. Assigned duties must be agreed to by student and principal investigator prior to beginning the supervised work. Prerequisite: Program approval. (F,S)

LAA 6916 Research Methods in Landscape Architecture (3). Advanced research methodology for landscape architecture students. Focus will be on data acquisition, interpretation and presentation formats. Prerequisite: LAA 5371 and Program approval. (F)

LAA 6935 Graduate Seminars (1-3). Topical seminars designed especially for direction by visiting professionals or visiting faculty from other disciplines. Prerequisite: Program approval. (F,S,SS)
LAA 6936 Special Topics (1-3).
Course to address current special topics of interest. It may be developed in cooperation with a private or public sector office, industry, or environmental association. Prerequisite: Program approval. (F.S.S.S)

LAA 6971 Terminal Project/Thesis (6).
Individual or group terminal project may be approved in lieu of a thesis where the research does not suit the conventional thesis format. Prerequisites: LAA 6655 and Program approval. ($)

URP 5312 Urban Land Use Planning (3).
Elements of the general land use plan, location and space requirements; the use of models in planning; development of the land use plan; policy plan, implementation. Prerequisite: Consent of advisor.

URP 6222 Urban Regional Analysis (3).
The urban areas as a complex system; modeling the urban growth processes; statistical decision making games; modeling and simulation; cost effectiveness; application of the theory; a system-wide view of the Miami area. Prerequisite: Consent of instructor.

Construction Management

Jose D. Mitran, P.E., Associate Professor and Chairperson
Irshad Ahmad, Associate Professor
Wilson C. Barnes, A.I.A., Assistant Professor and Coordinator, Broward Program
Abdul Chaudhari, P.E., Professor
John M. Dye, Instructor
Eugene D. Farmer, A.I.A., Associate Professor
Ayman Morad, Assistant Professor
Julio Otazo, 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, stonework, 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 coursework related to their undergraduate degree, as computed by the Office of Admissions; or,

2. Must have obtained a score of at least 1000 on the Graduate Record Exam (GRE) or a minimum score of 500 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 coursework 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 who 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 masters 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 500 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, stonework, 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 nonthesis option. The 36 semester hour thesis option consists of a minimum of 30 semester hours of coursework and up to
six semester hours of thesis. The non-thesis option consists of 36 semester hours of coursework 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 3000 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 pre-requisite courses are advised to register for them in 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 under-graduate pre-requisite 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 coursework 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 master’s 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 post-baccalaureate 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.

**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.
Graduates
The Department of Construction Management requires a minimum grade point average of 3.0 in all 5000 and 6000 level courses taken towards a master's degree. No more than 6 credits of 5000 or 6000 level courses with an earned grade less than a "B" will be accepted. The minimum acceptable grade for any work attempted as a graduate student is a "C." Students required to take 3000 and 4000 level pre-requisite courses shall take them until they complete them with a grade of "P" or better (or "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.

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 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 students' responsibility, not the advisor's, to ascertain that required pre-requisites have been taken and passed prior to registering for a course. Failure to comply with pre-requisite 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 coursework with an overall minimum grade point average of 3.0 and no more than 6 credits of 5000 or 6000 level courses with an earned grade less than a "B." A student choosing the thesis option must also submit 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) coursework in the topics below. Maximum number of core credits applicable towards degree = 12. Students with prior specific coursework in these areas may not take these courses for credit towards degree.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 5618</td>
<td>Fundamentals of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5645</td>
<td>Construction Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5766</td>
<td>Codes and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5728</td>
<td>Principles of Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5746</td>
<td>Construction Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5406</td>
<td>Principle of Building Structures for Construction Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total core credits (maximum of 12 credits applicable towards degree)</td>
<td></td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BCN 5022</td>
<td>Housing for Developing Countries</td>
<td>3</td>
</tr>
<tr>
<td>*BCN 5626</td>
<td>Construction Cost Analysis &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5706</td>
<td>Interdisciplinary Aspects of Housing</td>
<td>3</td>
</tr>
<tr>
<td>*BCN 5716</td>
<td>Productivity in Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5735</td>
<td>Hazardous Materials &amp; Waste in Construction</td>
<td>3</td>
</tr>
<tr>
<td>*BCN 5755</td>
<td>Construction Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>*BCN 5771</td>
<td>Management &amp; Marketing of Const. Services</td>
<td>3</td>
</tr>
</tbody>
</table>
BCN 5772 Management of Construction Organizations 3

*BCN 5784 Construction Information Services 3

BCN 5905 Directed Independent Studies 3-6

BCN 5906 Special Topics 3-6

BCN 6473 Systems Approach for Housing Planning 3

*BCN 6642 Value Engineering in Construction 3

BCN 6775 Decision & Risk Analysis in Construction 3

*BCN 6785 Advanced Estimating and Bidding Strategy 3

BCN 6788 Artificial Intelligence in Construction Management 3

BCN 6916 Developments In Construction Technologies 3

BCN 6935 Graduate Seminar 3

BCN 6971 Thesis

Note: A student shall not register for BCN 5905 or BCN 6971, without the approval of his/her advisor, Department Graduate Committee (or Supervisory Committee), and the Department Chairperson.

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 prerequisites coursework 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.

BCN 5406 Principles of Building Structures for Construction Management (4). 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. (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. (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, financing sources and arrangements, capital requirements, bonding, insurance, risk, and contingency evaluation, general office operations, and bidding procedures. (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: how the housing industry operates, 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. (F)

BCN 5735 Hazardous Materials and Waste In Construction (3). Discussion of the common hazardous materials and waste regulations found in construction activities.

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. (S)

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. (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 structures, policies and procedures, finance, accounting, information modeling, bidding strategies, and operation. Prerequisite: BCN 3753 or BUL 4320 or BCN 3740.

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 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 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.

Drinking Water Research Center

William J. Cooper, Director

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 the opportunity for undergraduate and graduate students to conduct independent research in cooperation with other departments in the University. See the General Information section 'Centers and Institutes' for more details regarding the Center.

Staff

William J. Cooper, Ph.D., (University of Miami), Director and Research Professor

Hector R. Fuentes, Ph.D., P.E., D.E.E.(Vanderbilt University) Associate Professor

David P. Genereux, Ph.D., (Massachusetts Institute of Technology) Assistant Professor

Rudolf Jaffe, Ph.D., (Indiana University) Associate Professor

Shonali Laha, Ph.D., (Carnegie Mellon University) Assistant Professor

Laurie L. Richardson, Ph.D., (University of Oregon), Associate Professor

Vassilios A. Tsihrintzis, Ph.D., P.E., P.H., (University of Illinois at Urbana) Assistant Professor
<table>
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<tr>
<th>College of Engineering and Design</th>
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<tbody>
<tr>
<td><strong>Dean</strong></td>
</tr>
<tr>
<td>Gordon R. Hopkins</td>
</tr>
<tr>
<td><strong>Associate Dean</strong> W. Kinzy Jones</td>
</tr>
<tr>
<td><strong>Associate Dean</strong> Iraj E. Majzub</td>
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<tr>
<td><strong>Associate Dean</strong> Gustavo A. Rolg</td>
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<tr>
<td><strong>Director, Academic Support Services</strong> Lourdes A. Meneses</td>
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<tr>
<td><strong>Acting Director, School of Design</strong> Iraj E. Majzub</td>
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<tr>
<td><strong>Chairperson, Civil and Environmental Engineering</strong> L. David Shen</td>
</tr>
<tr>
<td><strong>Chairperson, Construction Management</strong> Jose D. Milani</td>
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<tr>
<td><strong>Chairperson, Electrical and Computer Engineering</strong> James R. Story</td>
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<tr>
<td><strong>Chairperson, Industrial Systems and Engineering</strong> Shih-Ming Lee</td>
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<td><strong>Chairperson, Mechanical Engineering</strong> M. Ali Ebadian</td>
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<tr>
<td><strong>Director, Drinking Water Research Center William J. Cooper</strong></td>
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<tr>
<td><strong>Director, Engineering Professional Development</strong> Neil Hout-Cooper</td>
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<tr>
<td><strong>Director, Lehman Center for Transportation Research</strong> L. David Shen</td>
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<tr>
<td><strong>Director, International Institute for Housing and Buildings</strong> Oktyar Ural</td>
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<tr>
<td><strong>Faculty</strong></td>
</tr>
<tr>
<td>Adjouadil, Maiek, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Ahmad, Iftishad, Ph.D., P.E. (University of Cincinnati), Associate Professor, Construction Management</td>
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<tr>
<td>Andrian, Jean, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Attoh-Okin, Nil O. (University of Kansas, Lawrence), Assistant Professor, Civil and Environmental Engineering</td>
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<tr>
<td>Babli, Tadeusz, Ph.D. (Technical University, Wroclaw, Poland), Associate Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Baker, Edward T., MLA, MDes, ASLA (Harvard University), Assistant Professor, Landscape Architecture, School of Design</td>
</tr>
<tr>
<td>Barreto, Armando B., Ph.D. (University of Florida), Assistant Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Barnes, Wilson C., M.Arch, A.I.A. (Harvard University), Assistant Professor and Coordinator, Construction Management, Broward</td>
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<tr>
<td>Bueno, J. A., MLA, ASLA, P.E. (Harvard University), Associate Professor, Program Coordinator, Landscape Architecture/School of Design</td>
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<tr>
<td>Busch, Claudia, M.S. (Columbia University), Assistant Professor, School of Design</td>
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<tr>
<td>Canaves, Jaime M.A., R.A. (University of Florida), Associate Professor, School of Design</td>
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<tr>
<td>Cao, Yiding, Ph.D. (University of Dayton), Assistant Professor, Mechanical Engineering</td>
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<tr>
<td>Centeno, Martha, Ph.D. (Texas A&amp;M University), Assistant Professor, Industrial and Systems Engineering</td>
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<tr>
<td>Cereljo, Manuel R., D.Sc., P.E. (Universidad Central, Cuba), MSEE (Georgia Institute of Technology), Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Professor, Construction Management</td>
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<tr>
<td>Chen, Chin Sheng, Ph.D. (Virginia Polytechnic Institute and State University), Associate Professor, Industrial and Systems Engineering</td>
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<tr>
<td>Chen, F. Frank, Ph.D. (University of Missouri - Columbia), Associate Professor, Industrial and Systems Engineering</td>
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<tr>
<td>Cherapunov, Genady, Ph.D. (Moscow State University), Professor, Mechanical Engineering</td>
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<td>Chow, Joe, Ph.D. (Carnegie Mellon University), Associate Professor, Industrial and Systems Engineering</td>
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<tr>
<td>Cooper, William, Ph.D. (University of Miami), Director and Research Professor, Drinking Water Research Center, Associate Professor, Chemistry</td>
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<td>Dye, John M., S.M. C.E. (Massachusetts Institute of Technology), Instructor Professor, Construction Management (Broward)</td>
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<tr>
<td>Ebadian, M. Ali, Ph.D. (Louisiana State University), Professor and Chairperson, Mechanical Engineering</td>
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<tr>
<td>Farmer, Eugene D., M.Arch., R.A. A.I.A. (University of Illinois), Associate Professor, Construction Management</td>
</tr>
<tr>
<td>Floris, Vinio, Ph.D. (Colorado State University), Courtesy Professor, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Fernandez, Irma B., Ph.D., (Florida International University), Area Director of STAC Program</td>
</tr>
<tr>
<td>Fuentes, Hector R., Ph.D., P.E., D.E.E. (Vanderbilt University), Associate Professor, Civil and Environmental Engineering; Drinking Water Research Center</td>
</tr>
<tr>
<td>Genevreux, David P., Ph.D., (Massachusetts Institute of Technology), Assistant Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Hagemann, Mark J., Ph.D. (University of Utah), Associate Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Helmer, Malcolm L. Ph.D. (Penn State University), Associate Chairperson, Associate Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Hopkins, Gordon R., Ph.D. (University of Alabama), Dean, College of Engineering and Design and Professor, Mechanical Engineering</td>
</tr>
<tr>
<td>Hout-Cooper, Neil M., Ph.D. (Florida Atlantic University), Director, Engineering Professional Development</td>
</tr>
<tr>
<td>Jaffe, Rudolf, Ph.D., (Indiana University), Associate Professor, Drinking Water Research/Chemistry</td>
</tr>
<tr>
<td>Jollibois, Sylvan C., Jr., Ph.D. (University of California at Berkeley), Assistant Professor, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Jones, W. Kinzy, Ph.D. (Massachusetts Institute of Technology), Associate Dean and Professor, Mechanical Engineering/ Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Kengskool, Khokiat, Ph.D. (University of Missouri), Associate Professor, Industrial and Systems Engineering</td>
</tr>
<tr>
<td>Loha, Shonali, Ph.D., (Carnegie Mellon University), Assistant Professor, Civil and Environmental Engineering; Drinking Water Research Center</td>
</tr>
<tr>
<td>Larkins, Grover L., Ph.D. (Case Western Reserve University), Associate Professor, Electrical and Computer Engineering</td>
</tr>
</tbody>
</table>
Lee, Shih-Ming, Ph.D., P.E. (Iowa State University), Associate Professor, Mechanical Engineering

Lee, Young-Kyun, Ph.D. (Ohio State University), Assistant Professor, Civil and Environmental Engineering

Leonard, Rene J., D.A., P.E. (University of Miami), Associate Professor, Mechanical Engineering

Levy, Cesar, Ph.D. (Stanford University), Associate Professor, Mechanical Engineering

Lopez-Mata, Gisela, M.S. (Pratt Institute), Assistant Professor, School of Design

Lulu, Menbeni, Ph.D. (University of Alabama), Associate Professor, Industrial and Systems Engineering

Majzub, Iraj E., D. Arch, RA (University of Torino), Professor, School of Design and Associate Dean, College of Engineering

Martinez, Sergio, D.Sc. (Columbia University), Instructor, Industrial and Systems Engineering

Mergul, Sylvia, Ph.D. (Louis Pasteur University), Assistant Professor, Electrical and Computer Engineering

Mitra, Jose D., M.E., Engr., P.E., (University of Florida), Associate Professor and Chairperson, Construction Management

Mohammed, Osama A., Ph.D. (Virginia Polytech.), Professor, Electrical and Computer Engineering

Moore, Jr., James E., Ph.D. (Georgia Institute of Technology), Assistant Professor, Mechanical Engineering

Morad, A. Ayman Ph.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Construction Management

Munroe, Norman, Ph.D. (Columbia University), Assistant Professor, Mechanical Engineering

Nunez, German, Ph.D. (Texas A&M University), Associate Professor, Industrial and Systems Engineering

Otazo, Julio O., M.A. Arch., R.A. M.S. Bldg. Const., (University of Florida), Assistant Professor, Construction Management

Park, Dong C., Ph.D. (University of Washington), Assistant Professor, Electrical and Computer Engineering

Perl, Mordechai, D.Sc. (Technion Institute of Technology) Courtesy Professor, Mechanical Engineering

Pietro-Porter, Luis A., Ph.D., P.E. (Princeton University), Professor, Civil and Environmental Engineering

Resnick, Marc, Ph.D. (University of Michigan), Assistant Professor, Industrial and Systems Engineering

Richardson, Laurie, Ph.D. (University of Oregon), Assistant Professor, Drinking Water Research Center, Biology

Rooge, Wolfgang F., Ph.D. (California Institute of Technology), Assistant Professor, Civil and Environmental Engineering

Rog, Gustavo A., Ph.D. (University of Florida), Associate Dean, College of Engineering and Design and Associate Professor of Electrical and Computer Engineering

Rostas, Camilo, M. Arch., R.A. (Harvard University), Assistant Professor, School of Design

Ruiz, Laura, M.S. (Florida International University), Coordinator FEEDS Program

Samra, Abdul H., Ph.D. (Wichita State University), Assistant Professor, Electrical and Computer Engineering

Schmidt, Pierre, E., Ph.D. (Pennsylvania State University), Professor, Electrical and Computer Engineering

Schoephoerster, Richard, Ph.D. (University of Iowa), Assistant Professor, Mechanical Engineering

Shen, Lon-Li, David, Ph.D., P.E. (Clemson University), Chairperson and Professor, Civil and Environmental Engineering, Director, LCTR

Sheiraziedjad, Ebrahim, Ph.D. (Technical University of Clausthal, West Germany), Assistant Professor, Mechanical Engineering

Story, James R., Ph.D. (University of Alabama), Chairperson and Professor, Electrical and Computer Engineering

Stuart, John A., M. Arch. (Columbia University), Assistant Professor, School of Design

Swift, Fredrick, Ph.D., P.E. (Oklahoma State University), Professor, Industrial and Systems Engineering and Professor, Mechanical Engineering

Tall, Lambert, Ph.D., P.E. CP Eng (Lehigh University), Professor, Civil and Environmental Engineering

Tang, Zhonghong, Ph.D. (University of Delaware), Assistant Professor, Civil and Environmental Engineering

Tansel, Berrin, Ph.D., P.E. (University of Wisconsin-Madison), Associate Professor, Civil and Environmental Engineering

Tansel, Ibrahim, Ph.D. (University of Wisconsin-Madison), Associate Professor, Mechanical Engineering

Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor, Civil and Environmental Engineering

Tosunoglu, Sabri, Ph.D., (University of Florida), Assistant Professor, Mechanical Engineering

Tsintsidis, Vassilios A., Ph.D., P.E., P.H. (University of Illinois, Urbana-Champaign), Assistant Professor, Civil and Environmental Engineering, Drinking Water Research Center

Ural, Oktay, Ph.D., P.E. (North Carolina State University), Director, International Institute for Housing and Buildings, Professor, Civil and Environmental Engineering

Urban, Frank K., Ph.D., (University of Florida), Associate Professor, Electrical and Computer Engineering

Van Vliet, Carolyne, Ph.D. (Free University of Amsterdam), Professor, Electrical and Computer Engineering

Wang, Ton-Lo, Ph.D., P.E. (Illinois Institute of Technology), Associate Professor, Civil and Environmental Engineering

Wang, Qian (Jane), Ph.D. (Northwestern University), Assistant Professor, Mechanical Engineering

Wu, Kuang-Hsi, Ph.D., P.E. (University of Illinois), Professor, Mechanical Engineering

Wunnapa, Subbarao V., Ph.D., P.E. (Andhra University), Professor, Electrical and Computer Engineering

Yen, Kang K., Ph.D. (Vanderbilt University), Associate Professor, Electrical and Computer Engineering

Yih, Tachung, Ph.D. (Catholic University of America) Associate Professor, Mechanical Engineering

Zhao, Fang, Ph.D. (Carnegie Mellon University), Assistant Professor, Civil and Environmental Engineering
College of Health
The College of Health offers programs of professional study in the health professions and promotes articulation between the academic units and clinical, experiential settings. Approximately 300 different clinical centers are utilized in the various degree programs. The academic departments of the College offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition, Medical Laboratory Sciences, Medical Record Administration, Occupational Therapy, Physical Therapy and Prosthetics and Orthotics. Master's degrees are offered in Dietetics and Nutrition, Medical Laboratory Science, Occupational Therapy, Physical Therapy, and Public Health. All degree programs are appropriately accredited by their respective professional accrediting bodies.

Applicants to the College 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. Students interested in admission to any department or program in the College should contact the unit for specific prerequisites and admission requirements. Specialized admission procedures are required for the Dietetics Programs, Medical Laboratory Science, Occupational Therapy, Physical Therapy, and Prosthetics and Orthotics programs.

The mission of the College of Health is to:

1. Prepare health professionals at the undergraduate and graduate levels.
2. Perform basic applied research.
3. Provide services which respond to health needs at local, state, national, and international levels.

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.

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### College of Health

#### Dietetics and Nutrition

Susan P. Himburg, Professor, Chairperson, and Director, Coordinated Undergraduate Program

Katharine R. Curry, Professor Emeritus

Zisca Dixon, Assistant Professor

Penelope S. Easton, Professor Emeritus

Evelyn B. Enline, Associate Professor and Associate Dean

Fatma Huffman, Professor, Director of Graduate Programs

Michele W. Keane, Assistant Professor

Marcia Magnus, Associate Professor

Dian Weddle, Assistant Professor

Nancy S. Wellman, Professor

The Department offers a graduate program leading to a Master of Science degree in Dietetics and Nutrition. The 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 enrolling in the Approved Preprofessional Practice Program (AP4) in conjunction with the master 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. This includes 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. In addition, the following courses for admission are detailed in the University procedures for admission to graduate study.

- Students have the option of selecting a Clinical/Community Nutrition or Dietetic Management emphasis in their coursework. The Clinical/Community track allows emphasis in nutrition research or applied nutrition. Students may also prepare themselves for positions of responsibility in community health agencies or private practice. The Management track broadens the concepts of management and develops managerial goals and expertise. Advanced courses in the School of Hospitality Management and College of Business Administration are recommended in the Management Track.

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 coursework must be recent enough to be relevant to the contemporary field of nutrition.

The Preprofessional Practice Program (AP4) is currently granted approval status by The Commission on Accreditation/Approval for Dietetics Education of The American Dietetic Association, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the United States Department of Education.

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. Application deadline is March 1 for Fall admission. Students must complete 12 hours of graduate work at FIU prior to the application date. To be eligible, students must have completed an ADA Didactic program and be admitted to the graduate program.

#### Master of Science in Dietetics and Nutrition

Students' programs will be planned to support their career goals in consultation with the assigned faculty advisor. Retention and graduation in the master's program requires maintenance of a 3.0 GPA.

### Course Requirements

#### Required Core (22)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</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 (two semesters)</td>
<td>1</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
</tbody>
</table>
DIE 6971  Thesis in Dietetics and Nutrition  6

Application: (3)
DIE 6368  Advanced Techniques in Dietetic Practice  2
DIE 6368L  Advanced Techniques in Dietetic Practice Lab  1

Scientific Knowledge: (6)
HUN 5245  Nutrition and Biochemistry  3
HUN 6254  Drug and Nutrient Interactions  3
HUN 6325  Protein, Carbohydrate and Lipids  3
HUN 6335  Functions of Vitamins  3
HUN 6355  Minerals In Human Nutrition  3
FOS 6236  Food Toxicology and Food Safety  3

Choose One Track: (3)
Clinical/Community Track
HUN 6266  Nutritional Assessment  3

or

Management Track
DIE 6259  Management of Nutrition Services  3

Recommended Electives
Planned in conjunction with the faculty advisor. No more than six hours outside the department without special permission from advisor.

Master of Public Health
An MPH degree is offered by the Department of Public Health with a concentration in Nutrition in conjunction with the Department of Dietetics and Nutrition. The goal of this degree program is to prepare the public health nutritionist to take a leadership role on the public health management team and to become an expert technical resource person.

The specialty concentration in Nutrition is designed to provide a background in the science and practice of public health including program planning, management, and evaluation; human nutrition and food science and their relationships to health; and a working knowledge of public health nutrition programs and services.

The MPH Nutrition concentration requires 45 hours of graduate coursework including:

- Public Health core curriculum 15-18
- Nutrition required courses 15-18
- Nutrition electives 3-6
- Field experience 3
- Field research project 3

Pursuit of this degree requires class attendance on both University campuses. Field experiences require transportation availability. Prospective students should contact both departments.

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 5936 Advanced Practicum in Community Nutrition (1-6). 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 instructor. (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 instructor. AP4 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 instructor. AP4 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, Diet Therapy I and II.

DIE 6257 Parenteral Nutrition (3). Clinical and metabolic advances in the parenteral feeding of the adult patient in relation to specific disease states. Prerequisites: Physiology, Biochemistry, Diet Therapy I & II.

DIE 6259 Management of Nutrition Services (3). Development and comparison of systems models used to plan, organize, staff, direct and control clinical nutrition services. Emphasis on cost effective/cost benefit analysis approach. Prerequisite: Graduate management course. Prerequisites: Physiology, Biochemistry, Diet Therapy I & II.

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 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 instructor.

DIE 6565 Computer Application in Dietetic & Nutrition Research (3). Application of various computer software programs to research problems. Prerequisite: Permission of 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: Permission of instructor. (F)

DIE 6569 Case Study Method in Research (3). Development and analysis of the case study method in research. Prerequisite: Permission of instructor.

DIE 6578 Field Research Methods in Dietetics (2). Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches. 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 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 6908 Supervised Field Study in Dietetics (3). Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by the student, developed with frequent consultation and supervision of instructor. Prerequisites: DIE 6578, 12 hours of graduate study, and permission of instructor.

DIE 6915 Supervised Research (1). Continuation of thesis or field research under thesis director or field study supervisor. Repeatable. Prerequisite: Completion of all other required coursework. (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 instructor.

DIE 6935 Special Topics in Dietetics (3). In-depth study of historical, epidemiological, preventive, 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 (3-6). Prerequisites: DIE 6758 or HUN 6811, 12 hours of graduate study and permission of Thesis Director. (F.S.SS)

DIE 7437L Nutrition Counseling Supervision (2). Covers techniques for advising on food choices and providing support for lifestyle 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.

DIE 7980 Dissertation (3-12). Research for doctoral dissertation. Prerequisite: Advancement to candidacy in doctoral program.

FOS 6236 Food Toxicology & Food Safety (3). Will cover causes of foodborne illness, prevention procedures and methods for employee education. 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 analysis and utilization in food services and nutrition care. Prerequisite: Advanced 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 methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

HUN 5195 International Nutrition: Problems, Policies, and Planning (3). Advanced study of magnitude, causes and nature of undernutrition in low income countries; emphasis on programs, planning, and policies directed toward alleviating hunger. Prerequisite: Permission of instructor.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: Permission of Instructor.

HUN 5295 Contemporary Issues In Food and Nutrition (3). Updating food and nutrition information through the study of current research. Recommended for non-majors.

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. Prerequisite: Recent courses in nutrition education or permission of 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: Advanced standing, 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 relationship between nutrition, fitness and athletic performance for trained and untrained athletes will
be examined. Prerequisites: Basic Nutrition, Physiology. (S, odd years)

HUN 6249 Nutrition and Physical Function (3). Covers food intake relationships, 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 nutrition. Prerequisites: Nutrition II, Biochemistry, Physiology.

HUN 6255 Nutrition in Wellness Program (3). Covers content and importance of nutritional aspects of wellness education programs and interrelationships between nutrition and exercise in prevention of common diseases. Prerequisite: Permission of instructor. (F, even years)

HUN 6257 Physio/Pharmacology of Food Intake (3). Consideration of scientific inquiries into eating and drinking behavior which will assist in planning nutrition education/counseling. Prerequisites: DIE 6368 and DIE 6368L.

HUN 6266 Nutritional Assessment (3). In-depth study of the methodology and application of nutritional assessment. Prerequisites: Nutrition II, physiology, and biochemistry.

HUN 6328 Protein, Carbohydrates & Lipids (3). The biological, physiological, and metabolic functions of proteins, carbohydrates, and lipids as they relate to human nutrition. Prerequisites: Nutrition II, Biochemistry, Physiology. (F, odd years)

HUN 6335 Functions of Vitamins (3). Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Nutrition II, 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: Nutrition II, Biochemistry, Physiology. (SS, odd years)

HUN 6408 Advanced Life Cycle Nutrition (3). In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisite: HUN 4241 or equivalent.

HUN 6435 Nutrition and Aging (3). Changes associated with aging and the impact of nutrition on these changes. Prerequisite: Permission of instructor. (S, odd years)

HUN 6521 Advanced Community Nutrition (3). In-depth study of assessment of nutriture in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and dietary care. Prerequisite: DIE 3317 or equivalent. (S, even years)

HUN 6522 Public Health Nutrition (3). Development and assessment of nutrition programs for the general population throughout the life cycle. Prerequisite: Permission of instructor.

HUN 6811 Laboratory Research Methods in Dietetics (2). Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of department chairperson.

Medical Laboratory Sciences

Beverly A. Warden, Associate Professor and Coordinator, Graduate Program and Chairperson

Barbara V. Anderson, Assistant Professor and Director, Medical Technology Program

Jerry A. Bash, Associate Professor

Manoucher Dezfulian, Associate Professor

Janet A. Lineback, Professor

Patrick F. Shen, Associate Professor

Sylvia L. Smith, Professor

Master of Science in Medical Laboratory Sciences

Admission to the Master of Science degree program in Medical Laboratory Sciences represents a judgment as to the probability of the student's success in graduate work. This judgment is usually based on a variety of factors including the student's undergraduate academic record, specific admission test scores, letters of recommendation, and letter of intent. To be admitted, a student must meet the following minimum requirements:

1. Satisfactorily meet the University's general requirements for admission. (Consult the General Information section for details.)

2. Hold a bachelor's degree, or equivalent, in medical technology or related scientific discipline from an accredited institution.

3. Have completed a minimum of two years of chemistry, one year of mathematics including statistics, two years of biology including immunology and biochemistry.

4. Individuals who do not possess a bachelor's degree in Medical Technology must complete 7 semester hours of undergraduate clinical coursework in one of the specialty areas or possess equivalent clinical experience. An applicant lacking in course background may be admitted with deficiencies on condition that these deficiencies be made up within one year of the date of admission. Credits earned in making up these deficiencies will not count toward the graduate degree.

5. Have a minimum cumulative GPA of 3.0 during the last two years of the undergraduate program or a minimum combined score of 1000 on the quantitative and verbal por-
tions of the Graduate Record Examination (GRE) or a minimum combined score of 1500 on the three-part GRE.

6. Submit at least two letters of recommendation from academic professors, supervisors/employers and/or professional associates who are in a position to comment on the applicant's potential for graduate work.

7. Submit an autobiographical statement or letter of intent (not to exceed 1000 words) which includes educational and career projections. Applicants may also include copies of previous written scientific work.

8. Students whose native language is other than English must demonstrate an adequate level of proficiency in English as judged by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Foreign students who have not met this requirement may be conditionally admitted and allowed to enroll in an intensive English language program prior to beginning coursework in medical laboratory sciences. Satisfactory English proficiency must be demonstrated within the first year of study.

9. Approval from the Departmental Graduate Committee.

Degree Requirements

The Master of Science in Medical Laboratory Sciences offers two options: a thesis track, and a non-thesis track. Students enrolled in the thesis program must complete a minimum of 36 credits including a thesis based upon the student's original research. Students enrolled in the non-thesis track must complete 45 credits of coursework and a comprehensive examination. A maximum of six credits of graduate coursework may be transferred from other institutions subject to approval by the Graduate Committee. It is expected that a full-time student taking nine credits per semester will complete the program in two years.

Students holding a baccalaureate degree in science who desire to complete the thesis track but lack adequate clinical background will be required to complete a minimum of 7 credits of undergraduate coursework in the specialty area. Students holding a baccalaureate degree in science who desire to complete the non-thesis track but lack adequate clinical experience must complete the certificate program in the specialty area. The undergraduate courses or certificate program to be completed will be determined by the Graduate Committee at the time of admission. Undergraduate credits are in addition to graduate level course requirements. They may not be substituted for graduate courses.

Thesis Track

Core Courses

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>M5175</td>
<td>Advanced Clinical Pathology</td>
</tr>
<tr>
<td>M5515</td>
<td>Advanced Diagnostic Immunology</td>
</tr>
<tr>
<td>M5610</td>
<td>Advanced MLS Workshops (3 required)</td>
</tr>
<tr>
<td>M5785</td>
<td>Research Methods in Medical Laboratory Sciences</td>
</tr>
</tbody>
</table>

Electives

<table>
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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>M5328</td>
<td>Diagnostic Hematological Cytology and Cytochemistry</td>
</tr>
<tr>
<td>M5329</td>
<td>Hematological Oncology</td>
</tr>
<tr>
<td>M5345</td>
<td>Advanced Hematology/Hemostasis</td>
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Specialty Courses: Immunohematology

<table>
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<th>Title</th>
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<tbody>
<tr>
<td>M6575</td>
<td>Advanced Blood Banking</td>
<td>3</td>
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<tr>
<td>M6595</td>
<td>Advanced Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>M6590</td>
<td>Human Blood Group Systems</td>
<td>3</td>
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<tr>
<td>M6944, 6945, 6946</td>
<td>Advanced Blood Banking Practicum I, II, III</td>
<td>3</td>
</tr>
<tr>
<td>M5585</td>
<td>Human Histocompatibility Antigens</td>
<td>3</td>
</tr>
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</table>

Specialty Courses: Clinical Immunology

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<tr>
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</thead>
<tbody>
<tr>
<td>M5585</td>
<td>Human Histocompatibility Antigens</td>
<td>3</td>
</tr>
<tr>
<td>M6180</td>
<td>Immunopathology</td>
<td>3</td>
</tr>
<tr>
<td>M6939</td>
<td>Advanced Topics in Medical Laboratory Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialty Courses: Clinical Microbiology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6425</td>
<td>Advanced Clinical Mycology</td>
<td>3</td>
</tr>
<tr>
<td>M6468</td>
<td>Molecular Mechanisms of Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>M5475</td>
<td>Medical Virology</td>
<td>3</td>
</tr>
<tr>
<td>M5495</td>
<td>Agents of Foodborne Disease</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

In consultation with the advisor, the student may select a maximum of six credits outside the Department of Medical Laboratory Sciences, which are not limited to but may include courses in biological sciences, chemistry, health care administration, educational methodology, computer sciences, and business administration.

Courses Descriptions

Definition of Prefixes

MLS - Medical Laboratory Sciences
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

MLS 5175 Advanced Clinical Pathology (3). Advanced study of pathological conditions affecting the major organ systems with emphasis on clinical diagnosis using laboratory methods. Prerequisite: Graduate standing or permission of instructor. (F)
MLS 5190 Molecular Pathology (3). Overview of recombinant DNA, molecular mechanisms of human diseases (e.g., cancer), DNA-based diagnostic methods, biotechnology applications of recombinant DNA to produce human proteins for therapeutic uses. Prerequisites: Courses in Biochemistry and Clinical Chemistry or permission of instructor.

MLS 5328 Diagnostic Hematological Cytology/Cytochemistry (3). Morphological, cytochemical, cytogenetic and immunological techniques for precise and accurate blood cell identification that provide invaluable information for diagnosis, treatment and prognosis. Prerequisite: Graduate standing or permission of instructor.

MLS 5345 Advanced Hematology/Hemostasis (3). An advanced course dealing with a number of selected topics of current interest in clinical hematology/hemostasis. Emphasis will be placed on erythrocyte disorders and blood coagulation. Prerequisite: Graduate standing or permission of instructor.

MLS 5425C Medical Mycology (3). Study of the essential procedures and criteria in the identification of pathogenic fungi. Recognition of fungal contaminants commonly encountered in clinical specimens. Actinomycetes. Antimycotic agents. Mycoserology. Stains, reagents, and media. Prerequisite: Graduate standing or permission of instructor.

MLS 5425L Medical Mycology Laboratory (1). Laboratory to accompany MLS 5425.

MLS 5475 Medical Virology (3). The nature of viruses and viral disease. Types of human viral infections, their detection and prevention. Current diagnostic procedures. Prerequisite: Graduate standing or permission of instructor.

MLS 5495 Agents of Foodborne Disease (3). Natural history of foodborne diseases. Microorganisms involved in food processing, food spoilage, foodborne illness and food intoxication. Investigation of foodborne diseases outbreaks. Prerequisite: MLS 4405 or permission of instructor.

MLS 5515 Advanced Diagnostic Immunology (3). A course describing the principles, performance, quality control and applications of immunological methods used in clinical laboratories and research. Prerequisite: Graduate standing or permission of instructor. (S)

MLS 5555 Human Histocompatibility Antigens (3). A comprehensive study of the serology, clinical relevance, immunology and genetics of the human histocompatibility antigens. Prerequisite: Graduate standing or permission of instructor.

MLS 5590 Human Blood Group Systems (3). An in-depth study of serology, clinical relevance, immunology, genetics and the biochemistry of the human red cell, white cell and platelet antigens and antibodies. Prerequisite: Graduate standing or permission of instructor.

MLS 5610 Advanced MLS Workshop (1). A short intensive treatment of selected clinical research techniques: DNA & PCR, HPLC, flow cytometry, gel, electrophoresis and blotting, ELISA, animal handling. Prerequisite: Graduate status or permission of instructor. (F,S)

MLS 5615 Research Instrumentation and Techniques (3). This course is designed to introduce the beginning graduate student to research instrumentation and techniques in the specialized areas of the medical laboratory sciences. Prerequisite: Graduate standing or permission of instructor.

MLS 5675 Clinical Protein Chemistry (3). Lectures dealing with isolation and identification of clinically significant proteins and enzymes. Pathological conditions and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

MLS 5684 Metabolic Effects of Toxic Substances (3). General principles of toxicology as well as a discussion of types of tissue injury produced in organ systems. Prerequisite: graduate standing.

MLS 5685 Therapeutic Drug Monitoring and Clinical Toxicology (3). Lectures dealing with pharmacokinetic and pharmacodynamic principles, methods of analysis, medicolegal aspects of drug testing, quality assurance. Prerequisite: Graduate standing or permission of instructor.

MLS 5785 Research Methods in Medical Laboratory Sciences (3). Introduction to clinical and industrial research methods/experimental designs. Analysis of scientific literature. Review of statistical analysis of data. Prerequisite: Graduate standing or permission of instructor.

MLS 6180 Immunopathology (3). The student will study the pathology of immunological processes occurring naturally and/or under disease conditions. Prerequisite: Graduate standing or permission of instructor.

MLS 6185 Advanced Clinical Mycology (3). Study of fungi which cause disease in man and animals. Application of genetic, biochemical and ultrastructural procedures in the identification of fungi including the use of monoclonal antibodies. Prerequisite: Graduate standing or permission of instructor.

MLS 6186 Molecular Mechanisms of Infectious Disease (3). Study of molecular mechanisms of microbial pathogenicity as it relates to human infections. Examination of the processes by which infection leads to disease. Disease prevention. Prerequisite: Graduate standing or permission of instructor.

MLS 6189 Advanced Blood Banking (3). A comprehensive study of the techniques and methods used to acquire, store, test and transfuse blood and its components. Prerequisite: Graduate standing or permission of instructor.

MLS 6195 Advanced Hematology Oncology (3). A detailed study of MLS hematological neoplasms, in which the etiology, pathophysiology, clinical and laboratory diagnosis of leukemias, lymphomas and other malignant diseases will be considered. Prerequisite: Graduate standing or permission of instructor.

MLS 6196 Advanced Clinical Analytical Systems (3). Current analytical concepts and analytical systems in clinical chemistry. Solid phase technology, ion-specific electrodes, centrifugal analyzers. Fluorescence polarization. Robotics. Prerequisite: Graduate standing or permission of instructor.

MLS 6197 Clinical Endocrinology (3). Lectures dealing with the anatomy, physiology and biochemistry of endocrine diseases. Laboratory testing
procedures and approaches, clinical significance and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

**MLS 6905 Independent Study (1-6).** In-depth study of a special topic requiring assigned readings, optional laboratory assignments, seminar participation, and final report. Prerequisite: Permission of instructor. (F.S)

**MLS 6910 Directed Independent Research (1-6).** Investigation of a problem in the area of medical laboratory sciences requiring independent research at the graduate level. Supervision by graduate faculty. Prerequisite: Permission of advisor/instructor. (F.S)

**MLS 6915 Applied Individual Research in Medical Laboratory Sciences (3).** Individual applied research in Medical Laboratory Science undertaken and reported under the direction of a faculty member. Prerequisite: Permission of instructor. (F.S,SS)

**MLS 6938 Graduate Seminar (1).** Oral presentation of literature review or research. Prerequisite: Graduate standing or permission of instructor. (F.S)

**MLS 6939 Advanced Topics in Medical Laboratory Sciences (3).** Current topics in medical laboratory sciences not otherwise covered in the curriculum. Review of literature and discussion of the selected topics. May be repeated for credit with different subject content. Prerequisite: Graduate standing or permission of professor. (F.S)

**MLS 6944 Advanced Blood Banking Practicum I (3).** A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

**MLS 6945 Advanced Blood Banking Practicum II (3).** A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

**MLS 6946 Advanced Blood Banking Practicum III (3).** A laboratory providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

**Occupational Therapy**

**Anne H. Hull,** Assistant Professor and Chairperson

**Alma Abdel-Moty,** Visiting Assistant Professor

**Elise Bloch,** Instructor

**Susanne D’Agati,** Assistant Professor

**Susan Kaplan,** Associate Professor and Graduate Coordinator

**Sharon Leikofsky,** Associate Professor

**Gail Hills Maguire,** Professor

**Patricia Scott,** Associate Professor

**Pamela Shaffner,** Assistant Professor

**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 specialty component that students design with approval of faculty. In the clinical specialty area, students have the opportunity to take four elective courses and develop projects and papers in addition to their thesis in their area 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. Students who do not hold a bachelor’s degree in Occupational Therapy must complete the professional certificate in Occupational Therapy after admission to the graduate program.

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 Professional Certificate in Occupational Therapy.

The certificate curriculum is fully accredited by the Accreditation Council for Occupational Therapy Education. Graduates of the program will be able to sit for the national certification examination for occupational therapists administered by the American Occupational Therapy Certification Board (AOTCB). After successful completion of this exam, the individual will
be an Occupational Therapist, Registered (OTR). Most states require lici-
censure in order to practice, however, state licenses are usually based
on the results of the AOTCB Certification Examination. The certificate
program includes 66 hours of courses including fieldwork. Students
may only take this curriculum in conjunction with the Master of Science
in Occupational Therapy. Students apply to the university as graduate
students and begin classes Summer B term.

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 1200 (verbal and quantitative
parts) on the Graduate Record Examination (GRE). All students are re-
quired to take the GRE. Admission is competitive and the average GPA
is over 3.2 with a GRE of at least 1200.

4. Have a basic statistics course.
5. Provide three letters of refer-
ence, a curriculum vitae/resume, a summary statement of professional and educational goals and
assessment of current professional activities.
6. Receive approval from the de-
partmental graduate admissions
committee.
7. International students are ac-
cepted subject to space and fiscal
limitations. Students must have a
Bachelor’s degree or equivalent in
occupational therapy from an insti-
tution recognized in their own coun-
try as preparing students for
graduate level study; academic eli-
gibility 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. Students who must complete
the professional certificate program
must apply by January 15th for Sum-
mer B term admission.

Degree Requirements
The Master of Science in Occu-
pational 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 coursework may be trans-
erred from other institutions, subject
to the approval of the departmental
graduate committee.

Required Courses: (36)

**Occupational Therapy Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTH 6009</td>
<td>Current Issues and Theories of Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6265</td>
<td>Measurement and Assessment in Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6215</td>
<td>Advanced Occupational Therapy Intervention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6948</td>
<td>Continuing Clinical Competence for Occupational Therapists</td>
<td>3</td>
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</tbody>
</table>

**Research Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>STA 6167</td>
<td>Statistical Methods in Research II</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5760</td>
<td>Current Research in Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6970</td>
<td>Master’s Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Clinical Specialty Component**

Combination of occupational ther-
apy and university electives in an
identified area of clinical interest
approved by the faculty.

**Occupational Therapy Certificate**

The certificate program can only be
taken concurrently with the Master
of Science in Occupational Ther-
apy. It is designed for the student
who already holds a Bachelor’s de-
gree in a field other than occu-
panional therapy. Students admitted
to this program will apply to the occu-
panional therapy department as
graduate students.

The certificate curriculum will en-
able students to qualify for certifica-
tion by the American Occupational
Therapy Certification Board. Gradu-
ate students who hold a bachelor’s
degree in a field other than occu-
panional therapy must complete this
program.

**Prerequisites**

Statistics, abnormal psychology,
theories of personality, human
growth and development, biology,
biology lab, human anatomy, hu-
man physiology, neuroscience, and
medical terminology.

1 These courses must be at the junior
level or above. If not taken as pre-
requisite, they may be taken after
admission to the certificate program.

**Required Courses: (66)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>OTH 3351</td>
<td>Treatment Techniques in Psychiatric O.T.</td>
<td>1</td>
</tr>
<tr>
<td>OTH 3351L</td>
<td>Treatment Techniques in Psychiatric O.T.</td>
<td>2</td>
</tr>
<tr>
<td>OTH 3413</td>
<td>Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>OTH 3413L</td>
<td>Applied Kinesiology Lab</td>
<td>3</td>
</tr>
<tr>
<td>OTH 3520L</td>
<td>Developmental Theory I Lab</td>
<td>1</td>
</tr>
<tr>
<td>OTH 4170L</td>
<td>Therapeutic Techniques</td>
<td>2</td>
</tr>
<tr>
<td>OTH 4210</td>
<td>Developmental Theory II</td>
<td>3</td>
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<tr>
<td>OTH 4315</td>
<td>Theory &amp; Dysfunction in Psychiatric O.T.</td>
<td>2</td>
</tr>
<tr>
<td>OTH 4325</td>
<td>Evaluation &amp; Treatment in Psychiatric O.T.</td>
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<td>OTH 4325L</td>
<td>Evaluation and Treatment in Psychiatric O.T.</td>
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</tr>
<tr>
<td>OTH 4411</td>
<td>Pathology &amp; Medical Surgical Disorders</td>
<td>3</td>
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<tr>
<td>OTH 4421</td>
<td>Biomechanics</td>
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<tr>
<td>OTH 4421L</td>
<td>Biomechanics Lab</td>
<td>2</td>
</tr>
<tr>
<td>OTH 4422</td>
<td>Evaluation &amp; Treatment in Central Nervous Systems Dysfunction &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>OTH 4422L</td>
<td>Evaluation &amp; Treatment in Central Nervous Systems Dysfunction &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>OTH 4714</td>
<td>Treatment Planning in Pediatrics</td>
<td>1</td>
</tr>
<tr>
<td>OTH 4761</td>
<td>Professional Issues</td>
<td>3</td>
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<tr>
<td>OTH 4850</td>
<td>Fieldwork Level II</td>
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</tr>
<tr>
<td>OTH 4851</td>
<td>Fieldwork Level II</td>
<td>1</td>
</tr>
<tr>
<td>OTH 5162</td>
<td>Adaptation of Human Occupation</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5011</td>
<td>Theories &amp; Practice of O.T.</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5760</td>
<td>Current Research in O.T.</td>
<td>3</td>
</tr>
</tbody>
</table>
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 profession 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 5174 Advanced OT Techniques in Upper Limb Prosthetics and Orthotics (3). Clinical OT techniques and pathomechanics applied to upper limb dysfunction including utilization of biofeedback and myoelectric components. Prerequisites: OTH 4421 and OTH 4170.

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation at client’s workplace for the disabled. Prerequisite: Admission to program or permission of instructor. (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 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 instructor. (S)

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. (SS)

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 instructor.

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to the program or permission of instructor.

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. (S)

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. (SS)

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 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 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 instructor. (SS)

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 instructor.)

OTH 5905 Independent Study (Variable Credit). (F.S.S)

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. (S)

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. (F)

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimen 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 instructor. (F)

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 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 6546 Resources and Skills for the PH/PT Student (3). This course focuses on the interdisciplinarity team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Corequisites: Graduate OT, PT, or Education students. (SS)

OTH 6547 Strategies for the PH/PI Student (3). This course focuses on the use of available technology (both high and low tech) to enhance the instructional strategies for pro-
foundly handicapped and physically impaired student populations. Corequisites: Graduate OT, PT, or Education students. (SS)

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 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project. (S)

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.S)

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### Physical Therapy

**Avilda R. Haskins**, Associate Professor and Chairperson  
**Jacques Augustin**, Assistant Professor  
**Steven Bernstein**, Assistant Professor  
**Helen Z. Connely**, Assistant Professor  
**Asli Daya**, Assistant Professor  
**Burton J. Dunevitz**, Associate Professor  
**Leonard Elbaum**, Associate Professor  
**Edith Einspruch**, Assistant Professor and Clinical Coordinator  
**Colleen Rose-St. Pitx**, Assistant Professor  
**Mae Yahara**, Assistant Professor

**Master of Science in Physical Therapy**

The Master of Science in Physical Therapy is designed to enable physical therapists to pursue attainment of a specialty practice area through advanced education in their chosen profession. It is also designed 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 coursework 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 required 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

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

Course Descriptions
Definition of Prefixes
PHT - Physical Therapy

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 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 introduction to gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisite: Permission of 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 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 question or issue in clinical Physical Therapy. Prerequisite: Permission of major advisor.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as these relate to pathologic states involving either the musculoskeletal or the neurologic system, or both. 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. Prerequisite: 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 6238 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 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 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 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 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. Prerequisite: 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.
provides a current curriculum vitae/resume.

Students with diverse backgrounds will be encouraged to apply; relevant work experience will be given strong consideration.

Field Training/Master's Research Project
All MPH students must complete either a field-training residency or a master's research project as a 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 Coordinator of Field Training for further information.

Research Option
This option is recommended for students with three or more years of experience in a health-related program. 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.

Degree Requirements
Students must complete at least 45 semester hours of approved coursework 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 Epidemiology
- Health Promotion
- Public Health Policy and Administration

Courses for the Master of Public Health are divided into four major areas:

General Core (18)
Supervised Field Experience or Master's Research Project (3 semester hours); Concentration Core (12 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 or Research Project: (3)
- **PHC 6945** Supervised Field Placement 3
- **PHC 6977** Master's Research Project

Environmental Health Management Concentration
Prepares professionals to utilize technical data, decision-making theory, managerial methods, socio-legal issues, and risk assessment in the development and implementation of public policy, environmental standards, and environmental protection programs.

(Offered in cooperation with the Department of Civil and Environmental Engineering)

Required Courses: (12)
- **PHC 6150** Public Health Policy Analysis and Formulation 3
- **PHC 6311** Environmental Health Risk Assessment 3
- **PHC 6425** Legal and Regulatory Aspects of Environmental Health 3
- **PHC 6004** Injury Epidemiology and Prevention 3

Concentration Electives: (9)
- **ENV 5105** Air Quality Management 3
- **ENV 5356** Solid Wastes Management 3
- **ENV 5006** Occupational Health 3
- **ENV 5666** Water Quality Management 3
- **EVC 5421** Industrial and Environmental Toxicology 3

EVR 5936 Topics in Environmental Studies 3
HSA 6155 Health Care Policy and Economics 3
HSA 6175 Financial Management of Health Systems 3
PHC 6307 Environmental Health Monitoring 3
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
General Electives: 3

Epidemiology Concentration
Epidemiology is the study of the distribution of diseases in the community and the factors influencing or determining this distribution.

Required Courses: (12)
- **PHC 6016** Social Epidemiology Health Promotion and Policy 3
- **PHC 6539** Health Demography 3

(Additional courses will be taken in affiliation with the University of Miami, School of Medicine)

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** Epidemiological Methods 3
- **PHC 6115** International Public Health 3
- **PHC 6907** Independent Study: Public Health 1-3
- **PHC 6503** Community Organization for Health Promotion 3
- **PHC 6530** Principles of Maternal and Child Health 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 6580 Contemporary Issues in Health Promotion 3
PHC 6570 Program Development and Evaluation In Health Promotion 3

Concentration Electives: (6)

PHC 6016 Social Epidemiology, Health Promotion and Policy 3
PHC 6112 Health Risk Appraisal 3
PHC 6150 Public Health Policy Analysis and Formulation 3
PHC 6311 Environmental Health Risk Assessment 3
PHC 6502 Health Promotion in the Workplace 3
PHC 6530 Principles of Maternal and Child Health 3
PHC 6585 Health Promotion in the Clinical Settings 3

General Electives: (6)

Public Health Policy and Administration Concentration

Emphasis is on Health Policy Analysis and Primary Care Administration in various health care settings.

Required Courses: (12)

PHC 6111 Primary Health Care Strategies 3
PHC 6150 Public Health Policy Analysis and Formulation 3
HSA 6155 Health Care Policy and Economics 3
HSA 6175 Financial Management of Health Systems 3

Concentration Electives: (6)

HSA 6149 Strategic Planning and Marketing of Health Care Services 3

HSA 6187 Personnel Management and Labor Relations 3
PHC 6112 Health Risk Appraisal 3
PHC 6111 Primary Health Care Strategies 3
HSA 5225 Long Term Care Management 3
HSA 6187 Personnel Management and Labor Relations 3
PHC 6425 Legal and Regulatory Aspects of Environmental Health 3
PHC 6532 Health Demography 3

Course Descriptions

Definition of Prefix

PHC - Public Health

PHC 6000 Introduction to Public Health Epidemiology (3). Introduces 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. (S)

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 factors are included in an epidemiological approach. Prerequisite: PHC 6000. (S)

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 response 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. (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.

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. Emphasis on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: PHC 6000. (SS)

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)

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 instructor. (S)

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.

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. (SS)

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 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. Prerequisite: PHC 6500 or permission of instructor. (F)

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 instructor. (F)

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 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 instructor. (F)

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 instructor. (S)

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 instructor. (F)

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 the community organization process; resources; and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or permission of instructor. (S)

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.

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 instructor. (S)

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 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 6715 Survey Research in Public Health (3). Health survey design, analysis and implementation, and interpretation of data. Emphasis on practical aspects of conducting health surveys. Study of existing health surveys. Prerequisites: PHC 6000 and PHC 6050. (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.
College of Health

Dean, (Acting)  Judith A. Blucker
Associate Dean  Evelyn B. Entone

Chairpersons and Directors:
Dietetics and Nutrition  Susan P. Himburg
Health Information Management  Elizabeth M. Johnson
Medical Laboratory Sciences  Beverly A. Warden
Occupational Therapy (Acting)  Susan R. Kaplan
Physical Therapy  Awilda R. Haskins
Public Health  Joseph Patterson

Professor Emeritus, Dietetics and Nutrition
Einspruch, Edith, M.B.A., P.T. (University of Miami), Assistant Professor, Physical Therapy
Elbaum, Leonard, M.M., P.T. (University of Miami), Associate Professor, Physical Therapy
Entone, Evelyn B., Ph.D., R.D. (Purdue University), Associate Professor, Dietetics and Nutrition, and Associate Dean
Haskins, Awilda R., Ed.D., P.T. (Florida International University), Associate Professor and Chairperson, Physical Therapy
Himburg, Susan P., Ph.D., R.D. (University of Miami), Professor and Chairperson, Dietetics and Nutrition
Huffman, Falma, Ph.D., R.D. (Auburn University), Professor, Dietetics and Nutrition
Hull, Anne H., M.S., O.T.R. (University of Michigan), Assistant Professor, Occupational Therapy
Johnson, Elizabeth M., B.S., RRA (Florida International University), Assistant Professor and Director, Health Information Management
Kaplan, Susan R., Ph.D., O.T.R. (University of Miami), Associate Professor and Graduate Coordinator, Occupational Therapy
Keane, Michele W., Ph.D., R.D. (Florida State University), Assistant Professor, Dietetics and Nutrition
Keppler, William J., Ph.D., Board Certified (University of Illinois), Professor, Public Health
Leikowsky, Sharon, Ph.D., O.T.R. (New York University), Assistant Professor, Occupational Therapy
Lineback, Janet A., Ph.D., M.T. (ASCP) (University of Miami), Professor, Medical Laboratory Sciences
Magnus, Marcia H., Ph.D., (Cornell University) Associate Professor, Dietetics and Nutrition
Maguire, Gail H., Ph.D., O.T.R., F.A.O.T.A. (University of Maryland), Professor, Occupational Therapy
McCoy, Virginia, Ph.D., (University of Cincinnati), Associate Professor, Physical Therapy
Scott, Patricia, M.P.H., O.T.R. (University of Oklahoma), Associate Professor, Occupational Therapy
Patterson, Joseph, Dr. P.H. (University of California at Los Angeles), Professor and Director, Public Health

Rose-St. Prix, Colleen, MHSA, P.T. (Florida International University), Assistant Professor, Physical Therapy
Shaffner, Pamela, M.S., O.T.R. (Nova SE), Assistant Professor, Occupational Therapy
Shen, Patrick F., Ph.D., M.T. (ASCP) (University of Arkansas), Associate Professor, Medical Laboratory Sciences
Smith, Sylvia L., Ph.D., S.M. (AAM, ASCP) (University of Miami), Professor, Medical Laboratory Sciences
Stempel, Robert, Dr. P.H., (University of California, Berkeley), Assistant Professor, Public Health
Warden, Beverly A., Ph.D., MT (ASCP), (Northeastern University) Associate Professor and Chairperson, Medical Laboratory Sciences
Weddle, Dian O., Ph.D., R.D. (University of Illinois), Assistant Professor, Dietetics and Nutrition
Wellman, Nancy S., Ph.D., R.D. (University of Miami), Professor, Dietetics and Nutrition
Yahara, Moe, M.S., APTA (George Mason University), Assistant Professor, Physical Therapy
Yunis, Maha, M.S.H.S., R.R.A. (University of Central Florida), Assistant Professor, Health Information Management
School of Hospitality Management
School of Hospitality Management

Anthony G. Marshall, Dean and Professor
Lee C. Dickson, Associate Dean and Associate Professor
Rocco M. Angelo, Associate Dean and Professor
Adele E. Smith, Assistant Dean and Associate Professor
Elio Bellucci, Associate Professor
M. Chase Burnitt, Adjunct Instructor
Cheryl Carter, Adjunct Instructor
Patrick J. Cassidy, Instructor
Percival Darby, Assistant Professor
Richard B. Donnelly, Assistant Professor
Marcel Escoffier, Assistant Professor
Peter Goffe, Associate Professor
Fritz G. Hagenmeyer, Professor
Albert J. Haleblian, Instructor
T. Michael Hampton, Assistant Professor
William M. Hansen, Adjunct Instructor
William Hebrank, Adjunct Instructor
Michael E. Hurst, Professor
Charles L. Iveno, Associate Professor
Lendai H. Kotschevar, Professor Emeritus
Gerald W. Lattin, Professor Emeritus
Steven V. Moll, Associate Professor
Elisa Moncarz, Professor
Michael J. Moran, Instructor
William J. Morgan, Jr., Professor
William O'Brien, Associate Professor
Alan J. Parker, Professor
Barry L. Perl, Adjunct Instructor
Nestor Portacarrero, Associate Professor
Roger Probst, Instructor
Edward A. Remington, Visiting Assistant Professor
Joan S. Remington, Assistant Professor
J. Kevin Robson, Associate Professor
Christopher A. Scanzera, Adjunct Instructor
Deborah L. Smith, Assistant Professor
William Stanford, Instructor
David M. Tally, Assistant Professor
Mary L. Tanke, Associate Professor
Andrew N. Vladimir, Associate Professor
Scott L. Vogel, Adjunct Instructor
Jeffrey M. Wachtel, Associate Professor
Mickey Warner, 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, or 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 internship program provides each student a structured management training 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 travel 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.

Admission
Applicants to the School must submit an Application for Admission to the University and must follow the regular University 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 divisional work or attained a minimum score of 1000 on the GRE (verbal and quantitative aptitude sections) or attain a minimum score of 450 on the GMAT. A minimum TOEFL score of 500 is required for international applicants.

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 graduate credit may be transferred from any other university or from the graduate programs of this University.

There is a requirement that all students work 100 hours in the Hospitality Industry in addition to the Graduate Internship of 300 hours.

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 15 semester hours.

Location
The School is located on the FIU North Campus at Biscayne Boulevard (U.S. 1) and Northeast 151 Street, North Miami, Florida.

Master of Science in Hotel and Foodservice Management

Course Requirements: (39)
HFT 5476 Feasibility Studies for the Hospitality Industry 3
HFT 5478 Restaurant Development 1
HFT 6227 Hospitality Management Training Systems 3
HFT 6246 Organizational Behavior in the Hospitality Industry 3
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 5476 Feasibility Studies for the Hospitality Industry (3). A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field. Prerequisites: HFT 3503 and HFT 4464. (S,S)

HFT 5478 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 3503 and HFT 4464. (S,S)

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-owner/manager relationships in hotel and food service operations and the mutual obligations created by each type of contract. Prerequisite: HFT 3603. (S)

HFT 5718 Quality Controls in Tourism (3). A study of contemporary social and human factors which influence actions and interactions between consumers and producers in tourism related industries. Prerequisite: HFT 3700 or equivalent. (F,S)

HFT 5719 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on international and developing nation situations. Prerequisites: HFT 3700 or equivalent. (F,S,S)

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. (F,S,S)

HFT 6225 Multicultural Human Resources Management for the Hospitality Industry (3). A study of personnel and consumer relations in the hospitality industry within a multicultural, multiracial, and multietnic society through an examination of value systems and cultural characteristics. Prerequisite: HFT 4223 or HFT 4224 or equivalent. (F,S)

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. (F,S)

HFT 6227 Hospitality Management Training Systems (3). A course designed to provide applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used. (F,S)

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. (F,S,S)

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.

HFT 6296 Seminar in Hospitality Management (3). Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the foodservice industry. Research of the current literature, field trips, class analysis, and discussion. (F,S)

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 6298 Case studies in Hospitality Management (3). Case studies are used to analyze and integrate the various disciplines of hospitality management. A critical attitude toward all administrative thought is encouraged. (F,S)

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. (F,S)

HFT 6406 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. (F,S)

HFT 6446 Hospitality Industry Organizational Information Systems (3). An introduction to the general concepts and equipment that support information management by computer within the Hospitality Industry. Data file handling and other information management techniques are stressed. Students are first required to write application programs, then to complete a series of assignments utilizing application programs relating to guest cycle management on the school’s computerized property management system. (F,SS)

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 and permission of instructor. (F,SS)

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 6477 Financial Management for the Hospitality Industry (3). A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate, and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations, and current financial issues in the hospitality industry. Prerequisite: HFT 6446 and HFT 4464. (F,SS)

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, negotiation. 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 industry. The student is required to implement a simulated restaurant on two computer systems maintained by the school. This simulation includes personnel files, daily management, menu expense and analysis, and inventory tracking. In addition, a research project will be assigned. Prerequisites: HFT 3423 or HFT 6446 and permission of instructor. (F,SS)

HFT 6586 Research and Statistical Methods (3). A study of basic research methodology as applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation, and methods for 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. Prerequisite: HFT 3503. (F,SS)

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. (F,SS)

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. (F,SS)

HFT 6916 Hospitality Industry Research Project (3-9). An individualized research 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,SS)

HFT 6946 Graduate Internship (1-3). Structured graduate management training and practical experience in a specialized field in the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, catering management, fast food management, restaurant management and club management. Report required. Prerequisite: Completion of a minimum of 1,000 hours of non-credit practical training work experience and permission of the instructor. (F,SS)
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<tr>
<th>Name</th>
<th>Title</th>
<th>Degree</th>
<th>Institution</th>
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<tr>
<td>Kotschevar</td>
<td>Lendal H., Ph.D. (Columbia University)</td>
<td>Professor Emeritus</td>
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<td>Lattin</td>
<td>Gerald W., Ph.D. (Cornell University)</td>
<td>Professor Emeritus</td>
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<tr>
<td>Marshall</td>
<td>Anthony G., J.D. (Syracuse University)</td>
<td>Professor, Law and Dean</td>
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<td>Moll</td>
<td>Steven V., M.S. (Florida International University)</td>
<td>Associate Professor, Accounting and Information Systems Management</td>
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<tr>
<td>Moncarz</td>
<td>Elisa, B.B.A., C.P.A. (Baruch College, City University)</td>
<td>Instructor, Food Management</td>
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<td>Morgan</td>
<td>William J., Jr., Ph.D. (Cornell University)</td>
<td>Professor, Management</td>
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<td>Newman</td>
<td>Diann R., Ed.D. (Nova Southeastern University)</td>
<td>Assistant Professor, Human Relations</td>
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<td>O'Brien</td>
<td>William, M.S. (Florida International University)</td>
<td>Associate Professor, Information Systems Management</td>
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<td>Parker</td>
<td>Alan J., Ph.D. (Columbia University)</td>
<td>Professor, Information Systems Management</td>
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<td>Perl</td>
<td>Barry L., M.S., C.P.A. (Florida International University)</td>
<td>Adjunct Instructor, Accounting and Finance</td>
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<td>Portocarrero</td>
<td>Nestor, B.B.A., C.P.A. (University of Miami)</td>
<td>Instructor, Food Management</td>
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<td>Probst</td>
<td>Roger, B.S. (University of New Haven)</td>
<td>Instructor, Management</td>
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<td>Remington</td>
<td>Edward A., M.B.A. (University of Denver)</td>
<td>Visiting Assistant Professor, Travel and Tourism</td>
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<td>Remington</td>
<td>Joan S., J.D. (Willamette College)</td>
<td>Assistant Professor, Tourism and Marketing</td>
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<td>Robson</td>
<td>Kevin, M.S. (Florida International University)</td>
<td>Associate Professor, Food Management</td>
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<td>Scanzera</td>
<td>Christopher A., M.B.A. (Florida Atlantic University)</td>
<td>Adjunct Instructor, Accounting and Finance</td>
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<tr>
<td>Smith</td>
<td>Adele E., M.S. (Auburn University)</td>
<td>Associate Professor, Management and Assistant Dean</td>
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<tr>
<td>Smith</td>
<td>Deborah L., M.Acc., C.P.A. (Nova Southeastern University)</td>
<td>Assistant Professor, Accounting and Finance</td>
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<td>Stanford</td>
<td>William, Instructor, Food Management</td>
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<td>Talty</td>
<td>David M., B.S. (Florida State University)</td>
<td>Assistant Professor, Management</td>
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<td>Tanke</td>
<td>Mary L., Ph.D. (Purdue University)</td>
<td>Associate Professor, Management</td>
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<td>Vladimír</td>
<td>Andrew, M.S. (Florida International University)</td>
<td>Associate Professor, Management</td>
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<td>Vogel</td>
<td>Scott L., M.S. (Florida International University)</td>
<td>Adjunct Instructor, Catering Management</td>
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<tr>
<td>Wachtel</td>
<td>Jeffrey M., Ph.D. (Georgia State University)</td>
<td>Associate Professor, Management</td>
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<td>Warner</td>
<td>Mickey, Ed.D. (Florida International University)</td>
<td>Associate Professor, Management</td>
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**Faculty**

- Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean
- Bellucci, Elio, J.D. (Boston College), Associate Professor, Law
- Burritt, M. Chase, B.S. (Cornell University), Instructor, Management
- Carter, Cheryl, B.S. (Florida International University), Adjunct Instructor, Tourism
- Cassidy, Patrick J., B.S. (Florida International University), Instructor, Wine Technology
- Darby, Percival, M.S. (Florida International University), Assistant Professor, Management
- Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management and Marketing and Associate Dean
- Donnelly, Richard B., M.S. (Florida International University), Assistant Professor, Foodservice Management
- Escottier, Marcel, M.S. (Florida International University), Assistant Professor, Management
- Goffe, Peter, J.D. (University of Miami), Associate Professor, Marketing
- Hagenmeyer, Fritz G., M.A. (Cornell University), Professor, Hotel Engineering
- Hallbian, Albert J., B.S. C.P.A. (Cornell University), Instructor, Accounting and Finance
- Hampton, T. Michael, M.S. (Florida International University) Assistant Professor, Marketing
- Hansen, William M., M.S. (Florida International University), Adjunct Instructor, Catering Management
- Hebrank, William B. (University of Illinois) Adjunct Instructor, Wine Technology
- Hurst, Michael E., M.A. (Michigan State University), Professor, Management
- Ivenlo, Charles L., M.B.A., C.P.A. (Cornell University), Associate Professor, Accounting and Finance

**School of Hospitality Management**

Dean: Anthony G. Marshall
Associate Dean: Lee C. Dickson
Assistant Dean: Rocco M. Angelo
Assistant Dean: Adele E. Smith
School of Journalism and Mass Communication
School of Journalism and Mass Communication

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. Grade Requirements
      Minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the junior and senior undergraduate years.
      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; 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 850 or GMAT score is lower than 425 or if the/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.
   b. 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 coursework or to complete an internship with a professional organization. After an interview with the applicant, the faculty advisors of the respective specializations determine the amount of undergraduate work and the undergraduate courses to be completed.
   c. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
   d. Competence in the fundamentals of statistics is required. This can be demonstrated by students showing that a course has been taken in statistics before registering for MMC 5445. A student who has not taken a statistics course must take one from the SJMC approved list.
   e. Students must also, as a part of the admissions process, complete a one-hour writing sample on a date announced by the SJMC and complete an oral interview with the appropriate advisor.
3. 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 of their first term of graduate study.

Degree requirements
Plan of Study
During the first semester, students working with faculty advisors will plan their pursuit of the master's degree. The study plan will include a timetable for completion of the work. Any changes in the plan must be approved by the student's advisor. It is the student's responsibility to become familiar with the SJMC Graduate Handbook, which lists all requirements for the degree.
Writing Proficiency

Students must take a writing proficiency exam, which includes grammar and syntax. The exam must be taken within the student’s first semester on campus. Students who fail the exam must complete the school’s undergraduate writing course, MMC 3101, with a grade of ‘B’ or better. (No graduate credit is given for this course.) Students must be able to use a typewriter or have word processing skills.

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.

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

Student Media Advising

Designed primarily for journalism teachers and/or student media advisers on all levels, the program will train teachers/advisers or those aspiring to the profession in areas related to everyday work.

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 the core courses, students in the student media advising specialization must take the following courses:

- JOU 5806 Student Media Advising 3
- MMC 5207 Ethical and Legal Foundations of the Student Press 3
- MMC 6635 Contemporary Issues in Mass Communication 3
- VIC 5203 Trends in Graphic Design 3
- MMC 6950 Professional Project 3

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

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 Execution 3
- PUR 5406 Multi-Cultural Communications 3
- PUR 5607 Advertising and Public Relations Management 3
- PUR 5806 Integrated Advertising and Public Relations Planning, and Evaluation 3
- PUR 6935 Advanced Advertising and Public Relations Seminar 3
- MAN 6245 Organizational Behavior 3
- MAR 6506 Advanced Consumer Behavior 3
- MAR 6805 Marketing Management 3

Students must take one additional course from the School of Journalism and Mass Communication with the consent of the advisor.

Spanish-Language Journalism with Emphasis in Investigative Reporting

Admission Requirements

To be eligible for admission, candidates must also meet the following requirements:

- To have a bachelor’s degree or equivalent degree from an institute of higher learning recognized by FLU and a minimum Grade Point Average (GPA) of 3.0 earned during the last two undergraduate years.

- To show examples of published journalistic work or provide other convincing evidence that the candidate has the potential to be a journalist or a journalism educator and understands the profession well.
enough to be making a reasoned career choice.

To pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 500 points.

To pass the GRE with a minimum score of 1000 or a general knowledge test (PAEG) with a minimum score of 500. The test is the Spanish-language equivalent of the GRE. The Educational Testing Service states that the 500 PAEG is the equivalent of the 1000 level GRE score.

To write a detailed statement (5 to 8 pages) explaining why the applicant wants to pursue the master's program in Mass Communication. The statement is judged by its content as well as by the quality of the writing.

To pass a proficiency exam in Spanish, which will include grammar and syntax. The test is taken on campus at the beginning of the program of study.

Course Offerings
First Semester
JOU 6196 Advanced Writing Techniques 3
MMC 6402 Theories of Mass Communication 3
JOU 6198 Advanced Public Affairs Reporting 3
INR 6007 Seminar in International Politics 3
Second Semester
MMC 5455 Applied Research Methods in Media 3
MMC 5932 Special Topics Seminar 3
RTV 6303 Advanced Broadcast News 3
ECS 7405 Economics of Latin America 3
Third Semester
MMC 6635 Contemporary Issues in Mass Communication 3
JOU 6931 Seminar on Special Topics 3
JOU 6197 Advanced Reporting Techniques 3
MMC 6950 Mass Communication Professional Project 3

Certificate Programs
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.

All applicants should have successfully completed at least two years of college-level courses, and be practicing journalism for at least two years. Students must be admitted to the program by invitation of the chairman of the Coordinating Committee of the Certificate Program. The program coordinator will serve as the student's advisor.

Students who qualify for admission to the master's degree in mass communication program will be able to transfer up to nine appropriate graduate credits from the certificate program.

Program of Studies: (15)
Required Courses:
- Students will select two of the following:
  - Print News Reporting 3
  - Broadcast News Reporting 3
  - Database and Public Records Reporting 3
- JOU 3113L Newsroom 3
  - or any combination of two courses below
- JOU 6198 Advanced Public Affairs Reporting 3
- JOU 6196 Advanced Writing Techniques 3
- JOU 6197 Advanced Reporting Techniques 3

In addition to the required courses, the students must take three courses of which a maximum of two may be taken outside the school in an area of concentration. The Coordinating Committee of the program will choose from the following courses or others to be selected with the student's advisor.

Students must complete their program of study within two years from the date of admission. No grade lower than 'C' will be accepted.

JOU 6196 Advanced Writing Techniques 3
JOU 6198 Advanced Public Affairs Reporting 3
MMC 5932 Special Topics Seminar 3
MMC 6402 Theories of Mass Communication 3
MMC 6635 Contemporary Issues in Mass Communication 3
CPO 4333 Central American Politics 3
ECS 3440 Central American Economics 3

Student Media Advising
This professional certificate program is designed primarily for journalism teachers and student media advisers 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 5808 Student Media Advising 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:
- RTV 5936 Seminar in New Communication Technologies 3
- MMC 6402 Theories of Mass Communication 3
- MMC 6635 Contemporary Issues in Mass Communication 3
- JOU 6196 Advanced Writing Techniques 3
- PUR 4101 Publications Editing and Design 3
- JOU 4208 Magazine Editing and Production 3

or other courses upon approval of the faculty advisor.
Course Descriptions

Definition of Prefixes

ADV-Advertising; FIL-Film; JOU-Journalism; MMC-Mass Media Communication; PGY-Photography; 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 6805 Creative Advertising and Public Relations Execution (3). Writing and visualization relevant to developing creative executions for integrated communications problems. (Offered at least once a year).

JOU 5806 Student Media Advising (3). Designed to assist teachers and advisers 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 adviser. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction. (Offered at least once a year).

JOU 6196 Advanced Writing Techniques (3). Techniques of creative journalistic writing, including description, narration, anecdote, point of view. Prerequisite: Graduate standing.

JOU 6197 Advanced Reporting Techniques (3). Intensive instruction in how to find accurate and printable facts, with emphasis on use of public records. Prerequisite: Graduate standing.

JOU 6198 Advanced Public Affairs Reporting (3). A journalist’s examination of how to report urban government and the forces shaping public policy and decision-making. Prerequisite: Graduate standing.

JOU 6199 Judicial System Reporting (3). A journalist’s examination of the judicial system, from police headquarters to the courtroom. Prerequisite: Graduate standing.

JOU 6931 Seminar on Special Topics (3). Instruction in specialized areas of journalism. (Offered at least once a year).

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines 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 5561 Minorities and the Mass Media (3). A critical review of the role of the mass media as it relates to ethnic, religious, and social minorities in a pluralistic society.

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 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 calendar year. Prerequisites: Completion of all required courses. (Offered at least once a year).

PUR 5406 Multi-Cultural Communications (3). Explores the multi-cultural dimensions of communications with diverse audiences both internationally and within the United States. Prerequisite: Permission of instructor.

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: Permission of instructor. (Offered at least once a year).

PUR 5806 Integrated Advertising and Public Relations Planning and Evaluation (3). Advanced study in developing, planning and evaluating strategic integrated communications programs and campaigns. Prerequisite: Permission of instructor. (Offered at least once a year).

PUR 6936 Seminar In New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing.

RTC 5935 Seminar In International Comparative Broadcasting Systems (3). Introduction to international telecommunications systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or permission of instructor.

RTC 6309 Advanced Broadcast News (3). Advanced techniques, principles and issues of reporting for the electronic media, from spot news to documentaries. Prerequisite: Graduate standing.

RTC 6465C Field Production Practice (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.

RTC 6466C Studio Production Practice (3). The student will be responsible for the organization and
School of Journalism and Mass Communication

Dean: J. Arthur Heise
Associate Dean: Lillian Lodge Kopenhagen
Assistant Dean: Debra Miller

Faculty

Adams, William, M.A. (University of Wisconsin-Madison), Associate Professor, Journalism and Mass Communication
Berman, Margo, M.M. (University of Miami), Associate Professor, Journalism and Mass Communication
Biglow, Frank William, Ph.D. (University of California), Associate Professor, Journalism and Mass Communication
Bolanos, Gerardo, B.A. (Institute des Hautes Etudes des Communications Sociales - Belgium), Regional Director, Latin American Journalism Program
Delgado, Humberto, M.A. (Goddard College), Associate Professor, Journalism and Mass Communication
Gladwin, Hugh, Ph.D. (Stanford University), Director, Institute for Public Opinion Research
Gonzalez, Hernando, Ph.D. (Stanford University), Associate Professor, Journalism & Mass Communication
Green, Charles, B.A. (Christian International University), Executive Director, Latin American Journalism Program
Hall, Kevin, B.A. (Fordham University), Editor-in-Residence, Journalism and Mass Communication
Heise, J. Arthur, Ph.D. (Syracuse University), Professor and Dean, Journalism and Mass Communication
Huber, Michael, M.A. (Indiana University), Visiting Instructor, Journalism and Mass Communication
Kelly, Laura, M.A., (American University), Assistant Professor, Journalism and Mass Communication
Kopenhagen, Lillian Lodge, Ed.D. (Nova University), Professor and Associate Dean, Journalism and Mass Communication
McLaughlin, Doug, B.A. (Florida International University), Assistant Director, Institute for Public Opinion Research

Martinson, David L., Ph.D. (University of Minnesota), Associate Professor, Journalism and Mass Communication
Miller, Debra, Ed.D. (Florida International University), Assistant Professor and Assistant Dean, Journalism and Mass Communication
Nemcoff, Barry, B.A. (Temple University), Visiting Editor-in-Residence, Journalism and Mass Communication
Ogazon, Agatha, M.B.A. (Hofstra University) Coordinator, Latin American Journalism Program
Owen, Anne R., M.A. (University of Florida), Instructor, Journalism and Mass Communication
Rose, Patricia, M.B.A. (University of Miami), Associate Professor, and Chairperson, Dept. of Advertising and Public Relations
Verdeli, Lorna, J.D. (New York School of Law), Assistant Professor, Journalism and Mass Communication
Virtue, Jack, B.A. (Carleton University) Associate Executive Director, Latin American Journalism Program
With, Ana Cecilia, B.A., (University of Costa Rica), Coordinator, Central America Journalism Program.
School of Nursing
School of Nursing

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. Within each track, the student has the option of pursuing the functional role of clinical nurse specialist, nurse educator, or nurse administrator. The design of the program allows for the development of the nurse practitioner role as a base for the development of each of the three functional areas.

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 the 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 advisor 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

Upon completion of the MSN program, graduates will be able to:

1. Provide comprehensive, specialized quality care to clients in various settings, incorporating theories and advanced knowledge into nursing practice.

2. Utilize appropriate teaching, management, consultative, and advanced clinical skills in the exercise of professional responsibilities.

3. Integrate developmental, ethnocultural, socioeconomic, biophysical, 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 certification by national credentialing agencies as a practitioner or a clinical 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 (NLN). 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 an introductory course in statistics (3 credits), basic health assessment course (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 undergraduate (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 500 if not licensed as a registered nurse (RN) in Florida.
   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 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.

   c. Request an official transcript of records from each college or university attended. Transcripts should be sent directly to the Office of Admissions.

   d. Send three reference letters directly to the Associate Dean, FIU School of Nursing Graduate Program.

   e. 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 required non-nursing electives are restricted to supporting courses for the specialty area or the functional role.
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 course(s).

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 adviser.

### Master of Science in Nursing Curriculum

#### Core Courses (12)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>Culture and Advanced Nursing Practice</td>
<td>3</td>
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<td>NGR 5110</td>
<td>Theories in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NGR 5810</td>
<td>Research Methods in Nursing</td>
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#### Clinical Concentration (12)

**Advanced Adult Health Nursing**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>NGR 6201</td>
<td>Advanced Adult Health Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6210L</td>
<td>Advanced Adult Health Nursing Practice I</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6202</td>
<td>Advanced Adult Health Nursing II</td>
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</tr>
<tr>
<td>NGR 6211L</td>
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**Advanced Child Health Nursing**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NGR 6300</td>
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<td>NGR 6301L</td>
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<td>NGR 6303</td>
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</tr>
<tr>
<td>NGR 6302L</td>
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**Advanced Psychiatric-Mental Health Nursing (12)**

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<tbody>
<tr>
<td>NGR 6502</td>
<td>Advanced Psychiatric-Mental Health Nursing I</td>
<td>3</td>
</tr>
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<td>NGR 6504</td>
<td>Advanced Psychiatric-Mental Health Nursing II</td>
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</tr>
<tr>
<td>NGR 6507L</td>
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**Functional Role (10)**

**Clinical Nurse Specialist**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NGR 6726C</td>
<td>Nursing Management and Continuous Quality Improvement</td>
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<tr>
<td>NGR</td>
<td>Cognate Nursing Elective</td>
<td>3</td>
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<tr>
<td>NGR 6704L</td>
<td>Role Synthesis in Advanced Nursing Practice</td>
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**Nurse Educator Role**

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<tbody>
<tr>
<td>NGR 6713</td>
<td>Curriculum Development in Nursing</td>
<td>3</td>
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<tr>
<td>NGR</td>
<td>Cognate Non-Nursing Elective</td>
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<tr>
<td>NGR 6710</td>
<td>Role Synthesis in Nursing Education</td>
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**Nursing Administrator Role**

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<tr>
<td>NGR 6725</td>
<td>Issues and Strategies of Nursing Administration</td>
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**Research (6)**

**Master's Thesis Option (6)**

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<tr>
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<tbody>
<tr>
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<td>MSN Thesis I</td>
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</tr>
<tr>
<td>NGR 6971</td>
<td>MSN Thesis II</td>
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**Master's Paper Option (6)**

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<tbody>
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<td>NGR</td>
<td>Cognate Electives</td>
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<td>NGR</td>
<td>Free Elective</td>
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</table>

**Sample Program Progression Plan (Full-Time Study)**

**Major Track: Adult Health Nursing**

**Functional Role: Clinical Nurse Specialist**

Research Option: Master's Thesis

### Semester I

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**Sample Program Progression Plan (Part-Time Study)**

**Major Track: Adult Health Nursing**

**Functional Role: Clinical Nurse Specialist**

Research Option: Master’s Thesis

### Semester I

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Semester V
NGR Nursing Elective 3
NGR Cognate Elective 3

Semester VI
NGR 6970 Master’s Thesis I 3
NGR 6704L Role Synthesis in Advanced Nursing Practice 4

Semester VII
NGR 6971 Master’s Thesis II 3
NGR Nursing Elective 2

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 5110 Theories in Nursing (3). Analysis, evaluation, and application of nursing theories to practice, research, education and administration. Prerequisites: Departmental permission. MSN admission.

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/Adv Nurs Prac (3). Comparative analysis of philosophical, legal, political, economic, and social underpinnings of the nursing profession 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: Bachelor of Science in Nursing.

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 lifespan. 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 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: Must be a current student or Florida licensed RN.

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 selected 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. Corequisites: NGR 5035C and NGR 5110.

NGR 6202 Advanced Adult Health Nursing II (3). In-depth study of severe alterations in adaptive responses to chronic and acute multisystem illnesses. Refinement of practice models, integrating theories of nursing and related sciences. Prerequisite: NGR 6201L. Corequisite: NGR 5810 and NGR 5604.

NGR 6201L 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 6201L Advanced Adult Health Nursing Practice II (3). Advanced nursing practice with adult clients experiencing severe alteration in adaptive responses to chronic/acute multisystem 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. Corequisites: NGR 5110 and NGR 5035.


NGR 6303 Advanced Child Health Nursing Practice II (3). Extension and refinement of students’ theoretical foundation focusing on family-centered care of children requiring high level technological care and/or multidimensional rehabilitation. Corequisites: NGR 6301L, NGR 5604, and NGR 5810.

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 complex 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: Admission to graduate studies and departmental permission.
mentation, 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.
Porter, Luz, RN, Ph.D. (New York University), Professor and Associate Dean, Graduate Program
Safian-Rush, Donna, ARNP, Ed.D. (Florida International University) Associate Professor
Simunek, Linda Agustin, RN, Ph.D., J.D. (Loyola University of Chicago), Professor and Dean
Thornton, Rosa N., ARNP, MPH (Florida International University) Academic Advisor
Velasco-Whetsell, Martha RN, Ph.D. (University of South Carolina) Associate Professor
Washington, Linda, ARNP, MSN (University of Miami) Assistant Professor
Wortell, Linda, RN, Ph.D. (University of Miami) Assistant Professor
College of Urban and Public Affairs
College of Urban and Public Affairs

The College of Urban and Public Affairs was established by the Florida Board of Regents in 1994. Its mission is to serve the urban public in South Florida, the Latin American and Caribbean areas, and other urban settings by enhancing the ability of individuals to lead, manage and deliver services in public, private, nonprofit and health institutions. In support of the University's mission as a comprehensive, multicampus, urban institution, the College offers degree programs of professional study that focus on critical management and policy issues in urban environments.

The College is composed of two schools: the School of Policy and Management and the School of Social Work. Through the School of Policy and Management, the College awards the Bachelor's and Master's degrees in criminal justice, health services administration and public administration, and the Ph.D. in public administration. The School of Social Work offers programs leading to the Bachelor's and Master's degree in social work, and the Ph.D. in social welfare.

In addition, the College of Urban and Public Affairs is home to five centers and institutes. The Center for the Administration of Justice; Institute for Government; Institute for Children and Families at Risk; HRS/Children, Youth and Families Professional Development Centre; and the Institute for Public Management and Community Service may provide various forms of research support to graduate students. Additionally, some of the institutes and centers offer credit or non-credit courses for professionals in the local, national and international community. Additional information on these centers and institutes may be found in this catalog ('General Information - Centers and Institutes').

Students interested in the academic programs offered by the College of Urban and Public Affairs are urged to contact an advisor prior to enrollment for guidance on curriculum and career planning. Please contact the School of Policy and Management at (305) 940-5850 or the School of Social Work at (305) 940-5880. Further information may be obtained from the Dean's Office of the College of Urban and Public Affairs at North Campus, Academic I, Room 200 or by phone, (305) 940-5840.

Graduate Admission Requirements

Applicants to the graduate programs offered by the College must follow the University admissions procedures outlined in the 'General Information' section of this catalog and must meet the university's, the college's and the program's criteria for admission to graduate programs. The criteria for admission to any graduate program in the College of Urban and Public Affairs includes the following:

1. Applicants must meet the general university requirements for admission to a graduate program, complete the Admissions Application and submit the required fees, relevant test scores and official transcripts of all previous academic work.

2. Applicants must hold a bachelor's degree from a regionally-accredited college or university.

3. Applicants must meet the minimum requirements of a 3.0 grade point average in upper-division coursework or a minimum score of 1,000 on the Graduate Record Examination (GRE). Please note that all applicants must complete the GRE regardless of their upper-division grade point average. (For degree programs in criminal justice and health services administration, the Graduate Management Admission Test may be substituted for the GRE. See the specific program requirements for minimum scores on the GMAT.)

4. Applicants must meet the specific admissions requirements of the program to which they are applying, as outlined in the following sections. Please note that some programs in the College of Urban and Public Affairs require specific courses that must be completed prior to admission. Potential students should carefully review the program requirements noted in the catalog and consult an advisor for further guidance.

5. Foreign applicants whose native language is not English must present a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Please refer to the 'General Information' section of this Catalog for additional information regarding international admissions.

A student who is in the process of applying for admission to a graduate program may, in some circumstances, be permitted to enroll in graduate courses as a non-degree seeking student. Please consult the 'General Information - Classification of Students' section of this Catalog for additional information. In all instances, students who are not fully admitted must consult a program advisor prior to enrolling in any graduate courses offered by the College.

Academic Advisement

All graduate students who have been accepted into a degree program in the College of Urban and Public Affairs will be assigned an academic advisor by the School in which they are enrolled. Students should consult their advisor at least once a semester to review their progress and select courses for the succeeding semester. Failure to consult an advisor can result in unanticipated delays in completing degree requirements.

Transfer Credit

Upon admission to a graduate program, a student may request and receive permission to transfer graduate credits from other programs and/or universities to her or his master's degree program provided that:

1. The student submits a written request to the program director for transfer credit during their first semester of enrollment as an admitted graduate student in the program of study and approval is obtained by the program director prior to the completion of the first semester of study.

2. The hours requested do not exceed the maximum hours allowed by the program.

3. The hours requested do not exceed the maximum hours allowed by the university as described in this catalog. (See 'General Information - Transfer of Graduate Credit from Other Institutions'.)

4. The transfer courses were taken at the graduate level at an accredited college or university and are listed on an official transcript received by the Office of Admissions.
5. Grades of ‘B’ or higher were earned. Note: A ‘B-’ is not acceptable.

6. The courses are judged by the program director to be relevant to the student’s graduate program.

7. The credits were not used in satisfying the requirements for another degree, or included in another degree.

8. The credits were completed within six years preceding the admission to the graduate degree program.

The decision to award transfer credits is a programmatic decision, and is subject to the discretion of the program director in accordance with the stipulations outlined above. It is incumbent that all requests for transfer credit be finalized within a student’s first semester of enrollment to ensure that the student can develop a planned program of study.

Degree Requirements
To be eligible for a graduate degree through the College, a student must:

1. Satisfy all University requirements for the graduate degree.

2. Meet the requirements for the program of study. This program of study must concur with the requirements outlined in this catalog and be approved by the appropriate School.

3. Earn a minimum overall GPA of 3.0 in all work completed in the student’s graduate program of study.

4. Earn a minimum grade of ‘C’ in each course taken for the graduate degree. A student must repeat all courses in which a grade lower than a ‘C’ was received and must complete those courses with a grade of ‘C’ or better. Note: A ‘C-’ is not acceptable for graduate coursework.

5. Under the University’s forgiveness policy, graduate students may repeat no more than two courses for the purpose of raising their overall GPA, and no course may be repeated more than once. All courses repeated by graduate students shall be taken for a letter grade.

Time Frame for Completion of Degree
Students should consult the degree requirements for their program to determine the time frame in which all coursework must be completed for the graduate degree. In the absence of specific time limitations, all work applicable to degree requirements, including transfer credit, must be completed within six years immediately proceeding the awarding of the graduate degree.

Graduate Level Courses
The College restricts enrollment in graduate level courses as follows:

The 5000-level courses are open to graduate students and to undergraduate seniors who obtain permission from the instructor.

The 6000-level courses are open only to graduate students.

The 7000-level courses are open only to doctoral students.

Clinical and Field Experiences
As an integral part of the graduate curriculum, students may be required to participate in supervised learning experiences in community service agencies. The clinical and field work experience is one of orientation, observation, and practice in the particular program specialties of the College and it is structured concurrently with relevant classroom experiences. In programs where the clinical or field experience is not required, students are urged to explore the possibility of engaging in such an experience with their program director. Numerous community organizations provide opportunities for student internships and field practices.

Continuing Education and Special Programs
The College of Urban and Public Affairs, through its Centers and Institutes and in cooperation with the Division of Continuing Education, offers many credit, non-credit, and workshop courses at off-campus locations in Dade, Broward, and Monroe Counties. Courses and locations vary each semester. Further information can be obtained directly from the Division of Continuing Education or the relevant centers and institutes of the College.

Changes to Curriculum Requirements
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. This is especially true for several programs in the College of Urban and Public Affairs that are subject to national accreditation requirements. According to university policy changes in the curriculum may be made without advance notice.

Generally, the College of Urban and Public 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 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 Policy and Management

The School of Policy and Management includes Criminal Justice, Health Services Administration, and Public Administration.

Criminal Justice

Robert Clark, Professor
Ellen G. Cohn, Assistant Professor
Sumon Kakor, Assistant Professor
Jose Marques, Associate Professor
Luis Salas, Professor
Regina Shearn, Associate Professor
Robert Snow, Associate Professor
Ray Surette, Professor
W. Clinton Terry, Associate Professor
William Wilbanks, 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 1600 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 Criminal Justice requires (36) semester hours of credit. A maximum of (6) semester hours not included in another degree may be transferred into the program from an accredited institution, subject to the approval of the Program director. Candidates have the option of two programs of study: the thesis and non-thesis options. Those selecting the thesis option are required to complete 30 semester hours of course work and six semester hours of thesis. The non-thesis option consists of 36 semester hours of coursework. All candidates must take six core courses.

Specific Program Requirements

Six courses in criminal justice are required and the remaining courses are electives, two of which may be thesis requirements, and two may be taken outside of criminal justice if no courses have been transferred into the program from another degree program.

Core Courses: (18)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5288</td>
<td>Legal Issues for Criminal Justice Administrators</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6025</td>
<td>Theory in Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5105</td>
<td>Police Organization, Behavior, and Administration</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5285</td>
<td>Judicial Process and Policy</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5445</td>
<td>Corrections and Correctional Management</td>
<td>3</td>
</tr>
<tr>
<td>URS 6806</td>
<td>Research Methods and Design</td>
<td>3</td>
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Electives: (18)

<table>
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<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>CCJ 5056</td>
<td>History and Philosophy of Criminal Justice</td>
<td>3</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>
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<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>
<tr>
<td>CCJ 5525</td>
<td>Seminar in Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5605</td>
<td>Deviance and Social Control</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5669</td>
<td>Minors in Justice Administration</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5935</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6456</td>
<td>Administration and Management of CCJ Agencies</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6477</td>
<td>Seminar in Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6665</td>
<td>Victimology and Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>CCJ 6916</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</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Procedures

Thesis tract students will select a committee of three graduate faculty members, the student's major faculty advisor being a member. 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 six core courses, four electives, and the two thesis courses. The student may be required to undergo an oral dis-
ccusation 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.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

CCJ 5056 History and Philosophy of 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. (F,S)

CCJ 5216 Criminal Law (3). A concentrated study of the substantive criminal law based upon concepts, statutes, and cases that are enforced in state and federal courts. (S)

CCJ 5235 Criminal Procedure (3). A case study of major legal cases dealing with criminal procedure in the United States. (F)

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. (F,S)

CCJ 5286 Comparative Law (3). An analysis of the major legal families of the world. Emphasis shall also be given to legal families which are becoming more important as colonialism comes to a close. (S)

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. (F)

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. (F,S)

CCJ 5347 Correctional Intervention Strategies (3). An overview and critical assessment of treatment and re habilitation 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. (F,S)

CCJ 5525 Seminars 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. (S)

CCJ 5605 Deviance and Social Control (3). This course will cover major theoretical issues and ideas concerning deviant and criminal behavior and methods of socially controlling these behaviors. (F)

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 or 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. (F)

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. (F,S,S)

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. (F,S)

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. (F)

CCJ 6477 Seminar in Information Systems (3). An advanced seminar in the survey and application of electronic data in the criminal justice system. Prerequisite: Coc 3300 or permission of instructor. (F)

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship of victims of crime and the manner in which the criminal justice system responds to victims of crime. (F)

CCJ 6705 Advanced Research Methods (3). Emphasis is placed on the design of research projects, the analysis of research data, and the utilization of research within the criminal justice system. (S)

CCJ 6706 Applied Statistical Techniques for Criminal Justice (3). Statistical tools applicable to criminal justice research are examined. Emphasis is on developing an understanding of the various techniques and their applications. The use of computerized statistical packages will be presented. Prerequisites: STA 3122 and STA 3123, or permission of instructor. (F)

CCJ 6716 Planning and Program Evaluation (3). A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation. (S)

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 instructor. Prerequisite: Graduate standing. (F,S,S)

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
Health Services Administration

Fred Becker, Associate Professor
David Bergwall, Associate Professor
Gloria Deckard, Assistant Professor
Thomas Dunaye, Professor
Burton Dunlop, Senior Lecturer
Rosebud Foster, Professor
Frederick Newman, Professor
Martha Peleaz, Senior Lecturer
Max Rothman, Senior Lecturer
Gail Silverstein, Assistant Professor
Vandon White, Professor

The program in Health Services Administration offers graduate and undergraduate studies leading to Bachelors and Masters degrees in Health Services Administration.

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 administrative leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

The graduate program provides professional education to train management executives for administration of complex health care organizations in governmental and private settings.

The Master of Health Services Administration (MHSA) provides professional education for entry management careers in health services delivery 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, prepayment plans, mental health programs, multi-institution corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervise 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 improving 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 coursework in accounting, statistics and micro-economics with a grade equivalent of 'C' or higher. Entering students are expected to possess basic microcomputer skills including word processing 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 program's 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 Admissions Office.

3. Submit scores on the Graduate Record Examination or GMAT.

4. Submit a program application including three letters of reference to the Program of Health Services Administration.

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 coursework in the approved program.

3. Earn a minimum GPA of 3.0 or equivalent 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 hours-credits of graduate coursework 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)

Group 1
HSA 5125 Introduction to Health Services 3
HSA 6415 Managerial Applications of Social Determinants of Health 3
URS 6155 Quantitative Methods and Analysis 3
PAD 6109 Organizational Design and Change 3

Group 2
HSA 6175 Financial Management of Health Services 3
HSA 6185 Health Services Organization and Management 3
URS 6508 Policy Analysis and Program Planning 3
HSA 6756 Applied Program Development and Evaluation Methods 3

Group 3
HSA 6149 Strategic Planning and Marketing of Health Care Services 3
HSA 6187 Personnel Management and Labor Relations 3
HSA 6197 Design and Management of Health Information Systems 3
HSA 6176 Financing and Reimbursement of Health Delivery Systems or
HSA 5177 Financing and Reimbursement for Long Term Care 3

Group 4
HSA 6426 Health Law and Legal Aspects of Management 3
HSA 6717 Advanced Health Services Management and Research Seminar 3
HSA 6930 Professional Seminar in Health Services Management 3

Field Elective: (one of the following)
HSA 5225 Long Term Care Management I 3
HSA 6215 HMO and Ambulatory Care Administration 3
HSA 6205 Hospital and Health Facilities Management 3
HSA 6245 Mental Health Administration and Planning 3

One of the Following Three:
HSA 6877 Master's Research Project 2-6
HSA 6875 Administrative Residency 2-6
HSA 5876 Administrative Residency in Nursing Home Settings 6

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 advisor approval.
HSA 5408 Health Service Consumer Behavior 3
HSA 5935 Special Topics in Health Services 3
HSA 6905 Independent Advances Study 3
HSA 5226 Management in Long Term Care 3
HSA 5227 Long Term Care Management II 3
HSA 5816 Practicum in Long Term Care Management 3
HSA 5455 Ethical Decision Making in Health Administration 3
HSA 5876L Administrative Residency in Nursing Home Settings 3

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:
HSA 5225 Long Term Care Management I 3
HSA 5227 Long Term Care Management II 3
HSA 5177 Financing and Reimbursement for Long Term Care 3
HSA 5876 Administrative Residency in Nursing Home Settings 6

Administrative Residency
A three-month administrative residency in a health care organization is offered to all students. Students lacking health services administrative experience are encouraged to complete administrative residency. The residency is considered an integral part of the educational process. It is designed to provide practical experience with the theories, concepts, and administrative skills the students acquired during the first year of academic study. The residency is normally arranged in an agency or institution compatible with the students area of interest. The student works full-time with the health agency during this period. The faculty supervises the student during this period.

Course Descriptions

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. (S)

HSA 5876L Administrative Residency in Nursing Home Setting (6). 480 hours of supervised practice in a selected nursing home. To provide experience in organization and management within the nursing environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227. (F,S,SS)

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, or permission of instructor. (F,S)

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 instructor. (S,SS)
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, HSC 5515, HSA 6185, or permission of instructor. (F,S)

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 instructor. (S,S)

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 (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. (F,S)

HSA 6187 Personnel Management and Labor Relations (3). Staffing function of manpower and related personnel resources in health care organizations: practices of wage determinations, take analysis, employee recruitment/selection, work evaluation, collective bargaining, and contract negotiation implications. Prerequisite: HSA 6185 or permission of instructor. (F,S,S)

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: HSC 5515 or permission of instructor.

HSA 6196 Research Design and Applied Analytical Techniques for Health Care Information (3). Develops skills and techniques for the quantitative analysis of various data sets for health organization administrative and clinical information. Prerequisite: HSC 5515.

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. (S)

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 instructor. (F)

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 pre-payment. Prerequisite: HSA 5125, HSA 6185, or permission of instructor. (S)

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 instructor. (S)

HSA 6405 Behavioral Aspects of Health and Illness (3). Psychological determinants of health, illness, and sick role behavior, with emphasis on risk taking behavior and preventive intervention. Critical review of models of health behavior.

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. (F,S,S)

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 instructor. (S,S)

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 drawn from the literature in health care management provide the substantive framework for seminar analysis of issues and policy questions. Prerequisite: Completion of all other coursework or permission of instructor. (S,S)

HSA 6756 Applied Programs Development and Evaluation Methods in Health Services (3). Program evaluation as part of on-going assessment of effectiveness and resource consumption (costs). Evaluation models and study design are analyzed. Grant proposal writing is emphasized. Prerequisite: HSC 5515 or permission of instructor. (S)

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: Approval of the Coordinator. (F,S,S)

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. (F,S,S)

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. (F,S,S)

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 and research methods and design. Prerequisite: Permission of advisor. (F,S,S)

HSC 5515 Statistical and Research Methods for Health Services (3). This course presents concepts of descrip-
tive, inferential, and non-parametric statistics. Including the use of common computer program packages for analyzing public and clinical health statistical data. Prerequisite: HSC 4510 or equivalent URS 4112 or equivalent or permission of instructor.

**URS 6155 Quantitative Methods and Analysis (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. (F.S.S)

**URS 6508 Policy Analysis and Program Planning (3).** This course presents techniques and tools for the practice of policy analysis in public, non-profit, and health organizations, with emphasis on constructing policy analysis useful to decisionmakers. Prerequisites: PAD 5256, and URS 6155 or equivalent. (F.S.S)

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**Public Administration**

Harvey Averch, Professor
James Carroll, Professor
Milan Dluhy, Professor of Public Administration and Social Work
Howard Frank, Associate Professor and Coordinator
Jean-Claude Garcia-Zamor, Professor
Donald Klingner, Professor
Ralph G. Lewis, Associate Professor
Valerie L. Patterson, Instructor
Allen Rosenbaum, Professor
Ann D. Witte, 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 program has been accredited by the National Association of Schools of Public Affairs and Administration.

**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.

In addition, applicants must submit: (1) a written personal statement concerning their interest in a career in the field; and (2) a recent writing sample from either their place of employment or previous academic work.

**Degree Requirements**

The Master of Public Administration (MPA) program requires a minimum of 42 semester hours, consisting of ten required courses (30 semester hours), and a minimum of four courses within the specialization.

**Core Courses**

The MPA core consists of the following ten courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6053</td>
<td>Political, Social and Economic Context of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>URS 6155</td>
<td>Quantitative Methods and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6109</td>
<td>Organizational Design and Change</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>Research Methods and Design Change</td>
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<td>PAD 6227</td>
<td>Public Finance and the Budgetary Process</td>
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<td>PAD 6417</td>
<td>Public Personnel Administration</td>
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<td>PAD 5256</td>
<td>Public Economics and Cost Benefit Analysis</td>
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<td>PAD 6056</td>
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<td>URS 6508</td>
<td>Policy Analysis and Planning</td>
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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 four more courses (12 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 four out of the following nine courses:
- 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 6418 Seminar in Public Personnel Systems 3
- PAD 6419 Seminar In Applied Public Personnel Systems 3
- PAD 6436 Professionalism and Ethics 3
- PAD 6437 Dynamics of Individual Growth 3

International Comparative and Development Administration
The following two courses must be taken:
- PAD 6836 International Public Administration 3
- PAD 6838 Development Administration 3

An additional two courses from the Program must be selected from the following:
- PAD 6839 Comparative Public Policy 3
- PAD 5616 Contracting and Managing Third Party Governments 3
- FIN 6626 International Bank Lending and Practices 3
- FIN 6636 International Finance 3
- MAN 6603 Problems in Comparative Management 3
- ECS 5025 Economic Planning 3
- ECS 5025 Economic Systems 3
- ECS 5025 Economic Problems of Emerging Nations 3

Urban Management
Students must take the following course:
- PAD 6807 Urban and Municipal Government Administration 3

Students must take three of the following courses:
- PAD 6205 Public Financial Management 3
- PAD 5616 Contracting and Managing Third Party Governments 3
- URS 5655 Strategic Planning in Public and Non-Profit Organizations 3
- PAD 5460 Productivity Improvement 3
- URS 5657 Continuous Quality Improvement 3
- PAD 6816 Regional and State Government Administration 3
- URP 5313 Introduction to Urban Planning and Growth Management 3
- URS 5505 Economic Development and Urban Revitalization 3
- URP 5426 Emergency Management and Planning 3
- PAD 6229 Advanced Management Techniques 3

Law, Society and Policy
- PAD 5038 Court Agency Relations 3

PAD 5616 Contracting and Managing Third Party Governments 3
- PAD 6605 Administrative Law and Procedure 3
- PAD 6436 Public Ethics and Professionalism 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 the conditions:

1. A written proposal specifying outside courses and concentration rationale must be presented to the Program Director and MPA Coordinator for approval no later than 15 semester hours into the students course work;

2. Students must satisfy all core requirements for the MPA; and

3. The outside concentration must have a minimum of 12 semester hours in addition to the 30 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 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. PA) is offered in affiliation with Florida Atlantic University. The basis of the degree is scholarship: one pursues the degree in preparation for a career in which scholarly competence and demonstrated capability to conduct significant research is an essential element and one is conferred the degree only after demonstrating such knowledge, in course work, in examinations, and in disciplined research. Its pursuit is a rigorous one, administered by a research-oriented faculty fostering the commitment to testing the boundaries of knowledge.

The program is designed to provide students with a firm command of relevant theoretical and opera-
tional knowledge and research skills in public administration and policy analysis and to assist them in applying this knowledge to a broad array of career goals.

Admission Requirements

Application for admission to the Ph.D. in Public Administration may be made either at FIU or FAU, but not to both. 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 coursework 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 or 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 coursework, three recommendations using the Program's recommendation form, and samples of written work. The Program may also request an interview with applicants.

Generally, an applicant is expected to have, at minimum, a GPA of 3.5 or better for all graduate coursework and a combined score of 1000 on the GRE quantitative and verbal sections. However, 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 applicant's failure to meet the minimum requirements may be admitted based on other evidence of potential.

International students with a non-English native language must have TOEFL scores of 500 or above. International students with scores between 500 and 580 must take an intensive English course approved by the Program during the summer prior to enrollment and must pass an oral and written English competency examination authorized by the Program. 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 who can demonstrate to the Program's satisfaction that they have the knowledge contained in the MPA core curriculum and the graduate Administrative Law course at FIU will be asked to complete additional coursework.

All incoming Ph.D. students will be given a diagnostic examination in quantitative methods. Students with 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 premier scholars.

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 $9,000 per calendar year, including a $4,000 fellowship and $5,000 research assistantship with a 10-hour per week work assignment. Students may earn an additional $5,000 for 10 more hours of research assistance on grants and projects around the university. 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 two 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-resident students), scholarships, loans, work-study programs and targeted scholarships. Information on these and other opportunities are available through the University and College financial aid offices. Information about other financial aid opportunities is available through the University financial aid office.

To apply for a Program assistance, students should notify the Ph.D Coordinator of their intent at the time of application. For matriculation fee waivers and University assistance, students must file the University's Financial Aid Form (FAP) 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 65 semester hours beyond the master's degree, or its equivalent, including 41 semester hours of approved coursework 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. 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. Completion of all work must occur within seven years after an applicant's admission into the program.

Program of Study

The Doctor of Philosophy in Public Administration is a 65 semester hour program with five required courses (17 semester hours); two additional research tool electives (six semester hours); six courses within the student's specialization (18 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 program director, advisory committees chaired by a Program faculty member and including at least two additional members. During the first two semesters of the program, students are required to develop a program of study with the assistance and approval of their advisory committee, the program director.

Core Curriculum: (17)

PAD 7705 Advanced Quantitative Analysis 4
PAD 7707  Applied Research Methods  4
PAD 7026  Conceptual Foundations of Public Administration and Policy Analysis  3
PAD 7102  Advanced Organization Theory and Public Management  3
PAD 7055  Scope and Theory of Public Administration  3

Research Tools Courses: (6)
Students must complete at least six hours of course work (as required by their advisory committee) in research or quantitative methods. The courses are 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: (18)
Each student will select a specialization during the first year in the program. The specific courses in a student's specialization will be determined by consultation between the student and the advisory committee. The 18 semester hours of specialization can be earned in one of two ways:

1. The students may select their 18 semester hours from one of the following specializations currently offered: Public Policy, Policy Analysis, Public Organization Theory, Human Resources Administration, Comparative Administration, Budgeting and Public Financial Management, Program Evaluation, Science and Technology Policy, and Criminal Justice Administration, or

2. 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.

Yearly Progress Evaluation
To insure reasonable progress is maintained the Program conducts a yearly diagnostic review of each student's performance. The reviews result in a summary assessment of the student's progress and potential. If, in the course of the review, it is determined that remedial work is necessary special requirements may be established for the student. If it is determined that the student is not performing adequately the student may be dismissed.

Qualifying Examination
Upon completion of the methodological core courses, students are tested on their understanding of research and quantitative methods. If the student fails the qualifying examination twice the student will be required to take remediation specified by the Program.

Comprehensive Examination
After the completion of all course work, students will be given a written examination, or both, 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 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. Upon the public defense and approval of the proposal, the student will initiate final 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 three credits per semester) until the degree is completed. Upon completion, 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; PUP-Public Policy.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

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. (S)

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. (S)

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. A rigorous introduction to applied microeconomic theory is provided as well as an introduction to welfare economics. Market and government failure are analyzed as are the public alternatives available. The economics of innovation is contrasted to the benefit-cost analysis, cost effectiveness analysis and systems analysis
are presented. The ethics of applied practice are discussed via actual cases and the important skills of communicating with decision makers are taught. At the end of the course, every student presents orally their analysis of an important real world allocation problem or an actual cost-effectiveness analysis drawn from their own work situation or experience. (F,S,SS)

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. (S)

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. (F)

PAD 5435 Administrator 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. (F)

PAD 5443 The Public Administrator and Media Relations (3). Surveys the public administrator and 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. (S)

PAD 5460 Productivity Improvement (3). Provides measures to improve organizational and worker productivity using applied behavioral science. (S)

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. (F,S)

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. (S)

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. (S)

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. (F,S,SS)

PAD 5716L Information Systems for Public Organizations (1). This course will provide an overview of microcomputer and mainframe skills required for substantive coursework in personnel, budgeting, and other core public sector functions. (F,S)

PAD 5934 Contemporary Issues in Public Administration (3). An analysis of major conceptual issues currently facing public administrators. May be repeated. (F,S,SS)

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. (S)

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. (F,S,SS)

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous coursework in analytic exercises related to students’ areas of specialization. Prerequisites: Completion of MPA Core; last semester of coursework status. (F,S,SS)

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. (F)

PAD 6109 Organizational Design and Change (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. (F,S,SS)

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventoring, and risk management. (S)

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. (S)

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 these differences. (F)

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 so-
cial 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 inter-governmental financial relations. (F.S.S)

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, 6205 or permission of instructor. (S)


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 6417 Personnel Administration (3). This course focuses on the fundamentals of public personnel administration applied to general and specific issues of civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; manpower development and training; the application of the behavioral approach in personnel administration; unique public personnel management problems; governmental unionization and collective bargaining; and future perspectives in personnel administration. (F.S.S)

PAD 6418 Seminar in Public Personnel Policy (3). This course examines ways in which values, functions, personnel systems and stakeholders interact to influence the development of human resource policy and strategic human resource management capability in public agencies. Prerequisites: PAD 6417. (S)

PAD 6419 Seminar in Applied Public Personnel Management (3). Analysis of advanced techniques for staffing, productivity improvement and cutback management, focus on problems faced by federal, state, local and non-profit agencies. Prerequisite: PAD 6417 (F.S.S)

PAD 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. (F.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. (S)

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. (F.S)

PAD 6701 Quantitative Methods and Computer Skills (4). 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. (No credit will be given to students who have had undergraduates or graduate equivalents.) Prerequisite: Previous or concurrent enrollment in PAD 5716L. (F.S.S)

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. (S)

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. (F.S)

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 policy-making. (S)

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. (F)

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. (S)

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. (S)

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 required. Consent of faculty sponsor and Program Director required. (F.S.S)

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 ex-
expected. Consent of faculty sponsor and Program Director required. (F.S.S)

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. (F.S.S)

PAD 7025 Conceptual Foundations of Public Administration (3). This course analyzes the conceptual issues which provide the basic foundations for the field of public administration. Emphasis will be placed upon epistemological foundations and the philosophy of science and their implications for public administration as a field of study. (F)

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. (S)

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. (S)

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.

PAD 7607 Legal Context of Public Administration (3). This course analyzes the administrative significance of delegation, judicial review, rule making, freedom of information and sunshine laws, legislative veto, and liability for administrators. Prerequisite: PAD 6053. (F)

PAD 7702 Empirical Methods in Public Administration (3). An advanced research/seminar practicum focusing in the development of theoretical models relevant to public administration and analytical techniques for testing these models. Particular attention is paid to structural equation models and latent measures. (S)

PAD 7705 Applied Quantitative Analysis (4). Application of selected multivariate statistical and quantitative models to the field of public administration. Prerequisite: URS 6155. (S)

PAD 7707 Advanced Applied Research Methods (4). This course will provide students with an increased understanding of concepts of research methods through applied research projects related to public policy and public administration. Prerequisites: URS 6155 and URS 6806. (F)

PAD 7980 Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in public administration. Prerequisite: Ph.D. candidacy in Public Administration. (F.S.S)

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. (S)

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. (F)

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. (F.S)

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. (F)

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. (F)

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. (S)

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. (S)

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 6256, and URS 6155 or equivalent. (F.S.S)

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. (F.S)

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. Prerequisite: URS 6155. (F.S.S)
School of Social Work

Karen Sowers-Hoag, Associate Professor and Acting Director
L. Yvonne Bacarisse, Associate Professor and Associate Dean for Undergraduate Studies
Beverly Black, Assistant Professor
Stanley L. Bowla, Assistant Professor
Scott Bror, Professor
Laura Bronstein, Instructor and Field Coordinator
Milan J. Dluhy, Professor of Public Administration and Social Work
Humberto Fabelo, Visiting Instructor
Maria Gomez, Visiting Instructor
Mary Helen Hayden, Assistant Professor and Acting Undergraduate Coordinator
Michael Kolevzov, Professor
Rosa Jones, Associate Professor and Vice Provost
Monte Koppel, Professor
Welker Milchell, Instructor and Director, Professional Development Center
Mirtom Potocky, Assistant Professor and Acting Ph.D. Coordinator
Maria E. Pulg, Instructor and IV-E Program Coordinator
Magaly Querall, Associate Professor
Antoinette Rodgers, Assistant Professor and Acting Graduate Coordinator
Florence Safford, Associate Professor
Phyllis Singerman, Instructor and Graduate Field Coordinator
Betsy Smith, Associate Professor

The School of Social Work offers graduate and undergraduate studies leading to the Master's and Bachelor's degrees in Social Work. The School also offers a Ph.D. in Social Welfare.

This profession requires a high degree of knowledge, skill, and dedication. The desire and ability to work effectively with people and to help solve social problems; demands a scientific understanding of society and human behavior; skills of social work practice; and identification with the values of the profession.

Master of Social Work

The School offers an integrated program that leads to the degree of Master of Social Work. The program is designed to give the student professional education for the advanced practice of social work. 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.

All students will be expected to select one of two advanced concentrations: Services to the Elderly, or Services to Children and Families, and to plan a course and field practicum program that supports practice in the specialized field. With the help of faculty, students will develop individualized programs in the concentrations that seem most likely to meet their educational needs and contribute to their professional objectives.

For additional information regarding the graduate social work program of study and degree requirements, contact the School directly.

The Master's program 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 discussion of University procedures for admission to graduate study in the current catalog. 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. Any deficiencies in these prerequisites must be completed by the end of the first semester in the program.

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 at a CSWE accredited graduate school of social work 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 accredited social work programs and that were not used to satisfy the requirements of another degree may be transferred up to a maximum of six semester hours.

3. Students in the advanced standing program will not be awarded transfer credits.

4. Required concentration courses are not transferable.

Degree Requirements

The Master of Social Work program is a 60 semester hour program composed of 30 semester hours of the required common base in the first year and 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.

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 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.

Students interested in administration and supervision must develop a program of studies plan with the concentration coordinator for the second year.
First Year

Required Courses: (30)

SOW 5105 Human Behavior and the Social Environment I 3
SOW 5106 Human Behavior and the Social Environment II 2
SOW 5125 Human Behavior and the Social Environment III 2
SOW 5235 Social Welfare Policy I 2
SOW 5236 Social Welfare Policy II 2
SOW 5342 Social Work Practice I 3
SOW 5344 Social Work Practice II 3
SOW 5404 Basic Research Methodology I 3
SOW 5532 Field Practicum I 6
SOW 5542 Integrative Field Seminar I 1

Elective 3

Advanced Standing

Required Prerequisite Courses: (11)

SOW 5125 Human Behavior and the Social Environment III 2
SOW 5236 Social Welfare Policy II 2
SOW 5344 Social Work Practice II 3
SOW 5541 Advanced Standing Practicum Seminar 1

Elective: A Direct Practice Course 3

Following successful ("B" or better) completion of these prerequisite courses, advanced standing students are admitted to the second year. (A grade of "B" is not acceptable)

Second Year

Concentration Requirements: (30)

Services to Children and Families

SOW 6243 Child and Family Social Policy Issues 3
SOW 6281 Legal Aspects of Social Work Practice 3
SOW 6351 Intervention Strategies in Marriage and the Family 3
SOW 6435 Evaluative Research in Social Work I 3
SOW 6655 Intervention Strategies with Children and Adolescents 3
SOW 6535 Field Practicum II 8
SOW 6543 Integrative Field Seminar II 1

Elective 6

Services to the Elderly

SOW 5641 Understanding the Process of Aging 3
SOW 6245 Social Welfare Policy and Services for the Elderly 3
SOW 6649 Social Work Practice in Long Term Care and the Elderly 3
SOW 6359 Social Work Treatment with Families of the Elderly 3
SOW 6281 Legal Aspects of Social Work Practice 3
SOW 6435 Evaluative Research in Social Work I 3
SOW 6646 Social Work Practice with the Elderly 3
SOW 6535 Field Practicum II 8
SOW 6543 Integrative Field Seminar II 1

Elective 3

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 an area 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 3.5 undergraduate GPA.
3. Documentation of completion of a course in statistical methods with a grade of "B" or better.
4. Students for whom English is a second language must have a TOEFL score of 550 or higher.
5. Three letters of recommendation (two academic and one professional).
6. Three examples of written scholarly work.
7. 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 courses and 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 course work required by the Supervisory Committee with a grade of B or higher; Passing scores on written and oral comprehensive examinations; Under the guidance of a Dissertation Committee, 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 pro-
gram comprised of 11 required core courses, 3 required elective courses and 24 semester hours of dissertation
study.

Course Offerings
SOW 7215 Social Welfare Policy Seminar 3
SOW 7237 Social Welfare Research Priorities I 3
SOW 7238 Social Welfare Research Priorities II 3
SOW 7492 Research Methods In Social Welfare II 3
SOW 7493 Research Methods In Social Welfare II 3
SOW 7494 Advanced Social Welfare Research (elective) 3
SOW 7916 Supervised Research 6
SOW 7935 Advanced Seminar In Social Welfare 3
SOW 7936 Dissertation Seminar In Social Welfare 3
SOW 7939 Seminar on Social Work Education (elective) 3
SOW 7980 Dissertation Research 24
PAD 5934 Cost Benefit Analysis (elective) 3
STA 5995 Intermediate Statistics II 3
HSC 5515 Statistical Methods for Health Services 3
HSA 6756 Applied Programs Development and Evaluation Methods In Health Services 3
SYA 6943 South Florida Area Study 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 indi-
viduals 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: Twelve semester hours of college-level courses in the social

and behavioral sciences and one college-level course in biology (in-
cluding coverage of human biology). (F)

SOW 5106 Human Behavior and the Social Environment II (2). Study of the psycho-socio-cultural dimen-
sions of groups, organizations, and communities with attention to rac-

cial/ethnic and gender factors and with emphasis on how these systems affect and are affected by human behavior. Prerequisite: SOW 5105 or equivalent. (S)

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 in-
clude pregnancy, rape, abortion, childbirth, sex discrimination, climac-
teric, widowhood. Prerequisite: Senior or graduate standing.

SOW 5125 Human Behavior and the Social Environment III (2). Study of the psychosocial aspects of client problems, including psychopathology, frequently encountered by so-
cial workers in direct practice with attention to differential treatment is-

sues. Prerequisite: SOW 5105. (S,SS)

SOW 5235 Social Welfare Policy I (2). The study of a historical continuum of institutional mechanisms that carry out specific social welfare sys-

tems resulting from social policies developed by society in response to social problems. Power, standards, and scarcity issues are identified, while various definitions basic to the social policy field are established and clarified. Basic analytic and evaluative criteria are introduced. (F)

SOW 5236 Social Welfare Policy II (2). A study of the present institu-
tional response to social problems and social policy evolution. Defini-
tions, structure, and modes of fi-

nancing are considered utilizing various models. Specific delivery sys-
tems, such as health, Income main-
tenance, housing, corrections and child welfare, are explored. Evalu-
ative criteria are further developed upon the framework used in Social Policy I. Prerequisite: SOW 5235 or equivalent. (S,SS)

SOW 5324 Social Group Work Practice (3). Application of principles of social group work practice in an ecological framework. Skills in creat-
ing groups, goal achievement, termi-
nation and evaluation are stressed, analyzing issues of diversity. Prereq-
usitle: SOW 5342 or permission of in-
structor.

SOW 5342 Social Work Practice I (3). Basic relationship building and inter-
vieing skills development, in con-
text of value base of the profession. Critical self and peer assessment built upon in-class and video taped case simulations. Appreciation of ecological, multidimensional assessment, utilizing written and video taped case materials, with oppor-
tunities to view social problems and social work practice with indi-
viduals, families and groups within a social-cultural, multi-ethnic perspec-
tive. Prerequisite: SOW 5105. (F)

SOW 5344 Social Work Practice II (3). This course is a continuation of SOW 5342. It includes application of change process theories, tech-
niques, and intervention strategies dealing with groups, organizational systems, and communities. Prereq-
usitle: SOW 5342 or equivalent. Coreq-
usilies: SOW 5542 and SOW 5532. (S,SS)

SOW 5354 Crisis Intervention In So-
cial Work Practice (3). This course ex-
amines the etiology, structure, theory, and application of crisis inter-
vention in social work practice. It pro-
vides assessment criteria for as-
signment to this form of treatment and techniques for intervention. Pre-
requisite: Senior or graduate level practice course, or permission of in-
structor.

SOW 5404 Basic Research Methodol-
ogy I (3). This course provides infor-
mation on the principles and methods of basic social work re-
search. The ethical conduct of re-
search 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 em-
phasized. Prerequisite: Statistics. (F,S)

SOW 5532 Field Practicum I (6). A su-
 pervised educational field experi-
ence in an agency setting for a min-
imum of 384-clock hours designed to provide students opportunities to develop and apply generic practice skills in working with indi-
viduals, families, groups and commu-

nities. Prerequisites: SOW 5105, SOW 5235, SOW 5342. Corequisites SOW 5106, SOW 5125, SOW 5236, SOW 5344, SOW 5542. (S,SS)

SOW 5541 Advanced Standing Practicum Seminar (1). Drawing on experi-
ences from undergraduate fields practica, this seminar exam-
ines current issues and values in the profession, the relationship between theory and practice with a focus on the social environments in which clients function and the implications for policy and research. Prerequisite: BSW degree from a CSWE-accredited program. Corequisites: SOW 5125, SOW 5236, SOW 5344 and a direct practice course. (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 5344. (SS)

SOW 5605 Medical Social Work (3). Principles of medical social work required in hospitals and communities. Focus 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 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 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 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 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 instructor.

SOW 5669 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. Prerequisites: Graduate or senior level practice course or permission of 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 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 instructor (this course cannot be used as an elective by concentrators in Services to the Elderly specializing in direct practice).

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 Instructor. (F.S.S)

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 child 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 Policy and Services for the Elderly (3). Analysis of welfare policies and services affecting the elderly, including study of service delivery models and program strategies. Policy formulation and service implementation methods are examined. Prerequisite: Admission to concentration. Corequisite: SOW 5641. (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. Prerequisite: Admission to concentration. (F)

SOW 6351 Intervention Strategies in Marriage and the Family (3). This course will provide students with an understanding and application of the major models of social work intervention in working with families, with critical analysis skills in assessing family functioning 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 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 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 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 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-clock 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 6281 and three graduate courses in concentration. Corequisites: SOW 6543, and an advanced practice course. (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: SOW 5532 and SOW 5542. Corequisites: SOW 6535 and an advanced practice course in the concentration. (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 reconstruction, 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 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. Prerequisite: 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 frail elderly and their families and 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 will be given to issues of cultural, gender and racial differences in understanding child and adolescent 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 instructor. (SS)

SOW 6914 Independent Research (1-6). Individually selected program of supervised data collection and analysis on specific topics in social work and social welfare. Prerequisite: SOW 5404 and permission of instructor. (F, S, SS)

SOW 7215 Social Welfare Policy Seminar (3). This course analyzes the history and evolution of social welfare policy in the U.S. and examines the major theories and frameworks used to analyze social welfare policy. Prerequisite: Admission to Ph.D. program or permission of instructor. (F)

SOW 7237 Social Welfare Research Priorities I (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 instructor. (F)

SOW 7238 Social Welfare Research Priorities II (3). This course focuses on the community, organizational and societal level. Prerequisite: SOW 7237. (S)

SOW 7492 Research Methods in Social Welfare I (3). Research methods and methods concerning design, measurement, hypothesis testing, intervention assessment, and analysis. Prerequisite: SOW 7492, and STA 6160 or equivalent. Prerequisite: Admission to Ph.D. program or permission of instructor. (S)

SOW 7493 Research Methods in Social Welfare II (3). This second course in a two-semester sequence focuses primarily on designing, measurement, and analysis issues in ethnographic field studies, surveys and group experiments for the evaluation of intervention technologies in social welfare. Prerequisites: SOW 7492, and STA 6160, 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 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 7935 Advanced Seminar in Social Welfare (3). Course analyzes issues of contemporary interest to the field of social welfare. Emphasis is placed on examination of issues from a multi-level perspective. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493. (F)

SOW 7936 Dissertation Seminar in Social Welfare (3). This course focuses on helping students with the develop-
Certificate Programs

Criminal Justice
Graduate Certificate in Justice Administration
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 3
CCJ 6058 Theory in the Administration of Justice 3
CCJ 6456 Administration and Management of Justice Agencies 3
CCJ 6716 Planning and Program Evaluation 3

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 3
CCJ 5935 Special Topics 3
CCJ 6477 Seminar in Information Systems 3

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 coursework 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 3
CCJ 3290 Judicial Policy Making 3
CCJ 3291 Judicial Administration 3
CCJ 4032 Crime and the Media 3
CCJ 4252 Criminal Justice and the Constitution 3
CCJ 4280 Law and Criminal Justice 3
CCJ 4282 Legal Issues in Corrections 3
CCJ 4752 Legal Research 3
CCJ 5216 Criminal Law 3
CCJ 5235 Criminal Procedure 3
CCJ 5286 Comparative Law 3

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)
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-psycho-social 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SOW 5641</td>
<td>Understanding the Process of Aging</td>
<td>3</td>
</tr>
<tr>
<td>NGR 5250</td>
<td>Physical Change and Healthy Aging</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5226</td>
<td>Management of Long Term Care Systems</td>
<td>3</td>
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<tr>
<td></td>
<td>The balance of four courses to be selected from the following areas</td>
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<tr>
<td></td>
<td>of concentration. Students who have not had direct practice with</td>
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<tr>
<td></td>
<td>older people will be required to select an Individual Study course</td>
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<td></td>
<td>which will include 225 hours of practice experience.</td>
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Long Term Care Administration

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HSA 5225</td>
<td>Long Term Care Management I</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5226</td>
<td>Management in Long Term Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5227</td>
<td>Long Term Care Management II</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5454</td>
<td>Ethical Decision Making in Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5816</td>
<td>Practicum in Long Term Care Management</td>
<td>3</td>
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</tbody>
</table>

Aging and Rehabilitation

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>OTH 5600</td>
<td>Study of Gerontology as Related to Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5613</td>
<td>Interdisciplinary Approach to Aging</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5630</td>
<td>Occupational Therapy Assessment of the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5764</td>
<td>Research (topic selected in Geriatric Clinical Specialty)</td>
<td>3</td>
</tr>
<tr>
<td>OTH 5905</td>
<td>Independent Study (variable credit)</td>
<td>3</td>
</tr>
<tr>
<td>PTH 6238</td>
<td>Motor Development: Adult Through Geriatrics</td>
<td>3</td>
</tr>
<tr>
<td>PTH 6239</td>
<td>Adult Congenital Handicapping Conditions</td>
<td>3</td>
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Psychology of Aging

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>DEP 5404</td>
<td>Proseminar in Psychology of Adulthood and Aging</td>
<td>3</td>
</tr>
<tr>
<td>DEP 6438</td>
<td>Gerontological Assessment</td>
<td>3</td>
</tr>
<tr>
<td>DEP 6465</td>
<td>Psychology of Culture and Aging</td>
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<tr>
<td>DEP 6446</td>
<td>Cognitive Processes of Aging</td>
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Social Work Practice with Older Persons

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<th>Course</th>
<th>Title</th>
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<tr>
<td>SOW 5605</td>
<td>Medical Social Work</td>
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<tr>
<td>SOW 5845C</td>
<td>Counseling the Elderly</td>
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<tr>
<td>SOW 5905</td>
<td>Individual Study</td>
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<td>SOW 6245</td>
<td>Social Welfare Policy and Services for the Elderly</td>
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<td>SOW 6247</td>
<td>Housing and Environmental Needs</td>
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<td>SOW 6359</td>
<td>Social Work Treatment with Families of Elderly</td>
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<tr>
<td>SOW 6646</td>
<td>Social Work Practice with Elderly</td>
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<tr>
<td>SOW 6647</td>
<td>Advocacy in Social Work Practice</td>
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<tr>
<td>SOW 6649</td>
<td>Social Work Practice In Long Term Care and the Elderly</td>
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1: Open only to students with MSW degree or students in Master's degree program in Social Work.

Education

<table>
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<th>Course</th>
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<tr>
<td>ADE 5195</td>
<td>Designing Education and HRD Programs for Disadvantaged Adults</td>
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Criminal Justice

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<td>CCJ 5935</td>
<td>Special Topics: Crime and the Elderly</td>
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Public Administration

Professional Certificate Development Administration and Management

The objective of the Professional Certificate in Development Administration and Management is to develop skills and techniques for use by officials involved in public administration in developing countries and newly industrializing countries.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>PAD 6836</td>
<td>International Public Administration</td>
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<tr>
<td>PAD 6838</td>
<td>Development Administration</td>
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An additional course from the Department must be selected from the following:

<table>
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<th>Title</th>
<th>Hours</th>
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</thead>
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<tr>
<td>PAD 6839</td>
<td>Comparative Public Policy</td>
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<tr>
<td>PAD 6225</td>
<td>Comparative Public Budgeting</td>
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One course will have to be taken from the following in the College of Business Administration:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FIN 6626</td>
<td>International Bank Lending and Practices</td>
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</tr>
<tr>
<td>FIN 6636</td>
<td>International Finance</td>
<td></td>
</tr>
<tr>
<td>MAN 6603</td>
<td>Problems in Comparative Management</td>
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One course must be taken from the following in the Economics Department:

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<tr>
<td>ECS 5025</td>
<td>Economic Planning</td>
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<tr>
<td>ECS 5005</td>
<td>Comparative Economic Systems</td>
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<tr>
<td>ECS 5027</td>
<td>Economic Problems of Emerging Nations</td>
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Students enrolled in the certificate must obtain the consent of the certificate director before enrolling. Students must complete their program of study within three years from the date of admission and receive a minimum GPA of 3.0.

Certificate in Human Resource Policy and Management

Human Resource Policy and Management is designed to give graduate students a range of policy-analytical and management skills. It provides training in alternative personnel systems, (civil service, collective bargaining, privatization and contracting out), personnel techniques for productivity improvement, current issues, and ethics and professionalism. This certificate em-
phrases the application of behavioral science concepts and techniques to employers in a multi-cultural 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 serve as their faculty advisor. Admission to a certificate program does not require 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 ten courses must be taken to complete the certificate.

PAD 5427 Collective Bargaining and the Public Sector 3
PAD 5460 Productivity Improvement 3
URS 6654 Organizational Design and Change 3
PAD 5435 Administrator and the Role of Women 3
PAD 5043 Government and Minority Group Relations 3
PAD 6437 Dynamics of Individual Growth 3
PAD 6418 Seminar in Public Personnel Policy 3
PAD 6419 Seminar in Applied Public Personnel Systems 3
PAD 6436 Professionalism and Ethics 3
PAD 5616 Contracting and Managing Third Party Government 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 International Comparative and Development Administration

This program is intended to develop skills and techniques for use by officials involved in development administration in developing and newly industrializing countries.

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 the 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 International Comparative and Development Administration. 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 two courses must be taken:

PAD 6836 International Public Administration 3
PAD 6838 Development Administration 3

An additional course from the department must be selected from the following:

PAD 6839 Comparative Public Policy 3
PAD 6225 Comparative Public Budgeting 3

One course must be taken from the following offerings of the College of Business Administration:

FIN 6626 International Banking and Practice 3
FIN 6636 International Force 3
MAN 6603 Problems in Comparative Management 3

One course must be taken from the following offerings of the Economics Department:

ECS 5025 Economic Planning 3
ECS 5005 Comparative Economic Systems 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)

PAD 6053 Political, Social, and Economic Context of PA 3
PAD 6106 Organization Theory and Administrative Behavior 3
PAD 6227 Public Finance and Budgetary Process 3
PAD 6417 Public Personnel Administration 3
PAD 5934 Contemporary Issues in Public Administration 3

Students must complete their program of study within three years from the date of admission and receive no less than 3.0 GPA.
College of Urban and Public Affairs

Dean (Acting)  Mark Rosenberg
Associate Dean (Acting)  Rebecca M. Salokar
Coordinator of Student Services (Acting)  Valerie L. Patterson

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Wilbanks, William, Ph.D. (State University of New York), Professor, Criminal Justice
Wilte, Ann D., Ph.D. (North Carolina State University), Professor, Public Administration
Yamold, Barbara, Ph.D. (University of Illinois), J.D. (DePaul University), Assistant Professor, Public Administration

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Florida International University

University Park
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North Campus
North Miami, Florida 33181

Broward Center
at Broward Community College/Central Campus
Liberal Arts Building
3501 SW Davie Road
Davie, Florida 33314

University Tower
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Room 822
Fort Lauderdale, Florida 33301