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Florida International University

Graduate Catalog

1994-1995
Florida International University

Member of the State University System
Miami, Florida

1994 – 1995 Graduate Catalog

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Cover design by Office of Publications.
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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 oppor-
tunities.

Note: The programs, policies, requirements, and regulations published in this cata-
log 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 $13,833 or $.38 per copy to in-
form the public about University Programs.
Fees given in this catalog are tentative pending legislative action.

*Name change pending BOR approval. Formerly the School of Public Affairs and
Services.
ACADEMIC CALENDAR 1994-1995*

Fall Semester 1994

April 1  International Students admission application deadline.
June 1  Admission application priority consideration deadline (except International students).
          • Deadline for International Students to submit all required supporting documents.
          • Priority housing application deadline
July 7 - 8  Freshman Orientation Sessions
July 11 - 12  Freshman Orientation Sessions
July 14 - 15  Freshman Orientation Sessions
July 15  Fall Term housing payment deadline
July 18 - 21  Freshman Orientation Sessions
July 22  Transfer Student Orientation Sessions.
July 25 - 29  Control Cards available for student pick-up.
          • Short Term Tuition Loan Applications available for registering students.
August 1 - 5  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
August 8 - 12  Open Registration Week.
August 10  Short Term Tuition Loans application deadline for registered students.
August 12  Deadline (by 5 p.m.) to pay tuition and fees to retain registered courses.
          • Deadline (by 5 p.m.) to apply for Fall 1994 graduation.
          • Deadline for Financial Aid recipients to validate class schedules to retain registered courses.
          • Deadline for registered students to sign Short Term Tuition Loan promissory notes and validate class schedules.
August 22  Short Term Tuition Loan Applications available to students registering on Registration Day.
          • Housing check-in, freshman orientation students only.
August 22 - 23  Freshman Orientation Sessions.
August 24  Transfer Student Orientation Sessions
          • Housing Check-in 9 a.m. to 8 p.m
          • Telephone Registration available
August 25 - 26  Registration Days (See Class Schedule for registration times)
August 26  Deadline to register without incurring a $100.00 late registration fee.
August 29  Classes Begin.
Aug. 29 - Sept. 2  Registration for State Employees using fee waivers
August 31  Short Term Tuition Loans application deadline for students who registered on or after Registration Day.
September 2  Deadline (by 5 p.m.) to complete Late Registration.
          • Drop/Add Period ends at 5 p.m.
          • Deadline (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
          • Deadline to change a grading option.
          • Deadline (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
          • Deadline for Financial Aid recipients who registered on Registration Day to validate class schedules to retain registered courses.
          • Deadline for students who registered on Registration Day to sign Short Term Tuition Loan promissory notes.
          • October 1st CLAST exam registration deadline.
September 5  Labor Day Holiday (University closed)
September 6 - 7  Rosh Hashanah**
September 15  Yom Kippur**
September 23  Deadline (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
October 1  CLAST Test
October 7  Faculty Convocation
October 21  Deadline (by 5 p.m.) to drop a course with a DR grade.
          • Deadline (by 5 p.m.) to withdraw from the University with a WI grade.
November 11  Veterans' Day Holiday (University closed)
November 24 - 25  Thanksgiving Holiday (University closed)
December 2  Deadline (by 5 p.m.) to apply for Spring 1995 graduation.
December 9  Classes End.
December 10 - 16  Official Examination Period
December 17  Housing closes, check-out deadline at Noon.
December 19  Commencement Exercises
December 20  Grades due
December 22  Grades Mailed to Students.
December 26  Christmas Holiday (University Closed)

**Spring Semester 1995**

September 1  International Students admission application deadline.
September 30  Admission application priority consideration deadline (except International students).
   • Deadline for International Students to submit required supporting documents.
November 2 - 3  Freshmen Orientation Sessions
November 4  Transfer Student Orientation Session
November 7 - 10  Control Cards available for pick-up.
   • Short Term Tuition Loan Applications available to registering students.
November 14 - 18  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
November 15  Spring Term housing payment deadline.
Nov. 28 - Dec. 2  Open Registration
November 30  Deadline for registered students to apply for Short Term Tuition Loans.
December 2  Deadline (by 5 p.m.) to pay tuition and fees to retain registered courses.
   • Deadline for Financial Aid recipients to validate class schedules to retain registered courses.
   • Deadline for registered students to sign Short Term Tuition Loan promissory notes and validate class schedules.
   • Deadline (by 5 p.m.) to apply for Spring 1995 graduation.
December 27  Telephone Registration available.
January 2  New Year's Day Observed (University Closed)
January 3  Short Term Tuition Loan Applications available to students registering on Registration Day.
January 4  Housing check-in 9 a.m. - 8 p.m.
January 5 - 6  Registration Days (Check Class Schedule for registration times)
   • Deadlines to register without incurring a $100.00 late registration fee.
January 9  Classes Begin.
January 9 - 13  Registration for State Employees using fee waivers.
January 11  Deadline for students registered on or after Registration Day to apply for Short Term Tuition Loans.
January 13  Deadline (by 5 p.m.) to complete Late Registration.
   • Drop/Add Period ends at 5 p.m.
   • Deadline to change a grading option.
   • Deadline (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
   • Deadline (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
   • Deadline for Financial Aid registered recipients on or after Registration Day to validate class schedules to retain registered courses.
   • Deadline for registered students on or after Registration day to sign Short Term Tuition Loan promissory notes and validate class schedules.
January 16  Martin Luther King Holiday (University Closed)
January 20  February 16th CLAST exam registration deadline.
February 3  Deadline (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
February 18  CLAST Test
Feb. 27 - March 4  Spring Break
March 10  Deadline (by 5 p.m.) to drop a course with a DR grade.
   • Deadline (by 5 p.m.) to withdraw from the University with a WI grade.
April 14  Good Friday**
April 15 - 16  Passover**
April 21  Classes End.
   • Deadline (by 5 p.m.) to apply for Summer 1995 graduation.
April 21 - 22  Passover**
April 22 - 28  Official Examination Period.
April 30  Housing closes, check-out deadline at Noon.
May 1  Commencement Exercises.
May 2 Grades due.
May 3 Grades Mailed to Students.

Complete Summer Semester 1995 (Summer Term C)

February 1 International Students admission application deadline.
March 1 Admission application priority consideration deadline (except International students).
   • Deadline for International Students to submit required supporting documents.
April 3 - 7 Control Cards available for pick-up.
   • Short Term Loan Applications available to registering students.
April 10 - 14 Official Registration Week (Degree-Seeking Students only) by appointment time and day.
April 17 -21 Open Registration
April 19 Deadline for registered students to apply for Short Term Tuition Loans.
April 21 Deadline (by 5 p.m.) to pay tuition and fees to retain registered courses.
   • Deadline for Financial Aid recipients to validate class schedules to retain registered courses.
   • Deadline for registered students to sign Short Term Tuition Loan promissory notes and validate class schedules.
   • Deadline (by 5 p.m.) to apply for Summer 1995 graduation.
May 1 Short Term Tuition Loan Applications available to students registering on Registration Day.
May 3 Telephone Registration available
May 4 - 5 Registration Days (See Class Schedule for registration times)
May 5 June 3rd CLAST registration deadline
May 6 Housing Check-in 9 a.m. to 8 p.m.
May 8 Classes Begin.
May 8 - 12 Registration for State Employees using fee waivers.
May 10 Deadline for students registered on Registration Day to apply for Short Term Tuition Loans.
May 12 Deadline (by 5 p.m.) to complete Late Registration.
   • Drop/Add Period ends at 5 p.m.
   • Deadline to change grading option.
   • Deadline (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
   • Deadline (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
   • Deadline for Financial Aid recipients to validate class schedules to retain registered courses on Registration Day.
   • Deadline for students registered on or after Registration day to sign Short Term Tuition Loan promissory notes and validate class schedules.
May 29 Memorial Day Holiday (University closed)
June 2 Deadline (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
June 3 CLAST Test
June 30 Deadline (by 5 p.m.) to drop a course with a DR grade.
   • Deadline to withdraw from the University with a WI grade (by 5 p.m.)
July 4 Independence Day Holiday (University closed).
August 11 Deadline (by 5 p.m.) to apply for Fall 1995 graduation.
August 16 Classes End.
August 18 Grades due.
August 22 Grades Mailed to Students.

Summer Term A

May 3 Telephone Registration available
May 4 - 5 Registration Days (See Class Schedule for registration times)
May 5 June 3rd CLAST exam registration deadline.
May 8 Classes Begin.
May 8 - 12 Registration for State Employees using fee waivers.
May 12 Deadline (by 5 p.m.) to complete Late Registration.
   • Drop/Add Period ends at 5 p.m.
   • Deadline to change grading option.
   • Deadline (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
   • Deadline (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
   • Deadline for Financial Aid recipients to validate class schedules to retain registered courses.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 29</td>
<td>Memorial Day Holiday (University closed)</td>
</tr>
<tr>
<td>June 2</td>
<td>Deadline (by 5 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>Deadline (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td></td>
<td>Deadline (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>June 3</td>
<td>CLAST Test</td>
</tr>
<tr>
<td>June 23</td>
<td>Classes End.***</td>
</tr>
<tr>
<td>August 11</td>
<td>Deadline (by 5 p.m.) to apply for Fall 1995 graduation.</td>
</tr>
<tr>
<td>August 22</td>
<td>Grades Mailed to Students.</td>
</tr>
</tbody>
</table>

**Summer Term B**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 22 - 23</td>
<td>Super Summer Orientation Sessions</td>
</tr>
<tr>
<td>June 26</td>
<td>Registration Day</td>
</tr>
<tr>
<td>June 27</td>
<td>Housing check-in, 9 a.m.</td>
</tr>
<tr>
<td>June 29</td>
<td>Classes Begin.</td>
</tr>
<tr>
<td>June 29 - July 6</td>
<td>Registration for State Employees using fee waivers.</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day (University closed)</td>
</tr>
<tr>
<td>July 6</td>
<td>Deadline (by 5 p.m.) to complete Late Registration.</td>
</tr>
<tr>
<td></td>
<td>• Drop/Add Period ends at 5 p.m.</td>
</tr>
<tr>
<td></td>
<td>• Deadline to change grading option.</td>
</tr>
<tr>
<td></td>
<td>• Deadline (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.</td>
</tr>
<tr>
<td></td>
<td>• Deadline (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.</td>
</tr>
<tr>
<td></td>
<td>• Deadline for Financial Aid recipients to validate class schedules to retain registered courses.</td>
</tr>
<tr>
<td>July 21</td>
<td>Deadline (by 5 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>• Deadline (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td></td>
<td>• Deadline (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>August 11</td>
<td>Deadline (by 5 p.m.) to apply for Fall 1995 graduation.</td>
</tr>
<tr>
<td>August 16</td>
<td>Classes End.</td>
</tr>
<tr>
<td>August 18</td>
<td>Grades Due.</td>
</tr>
<tr>
<td>August 19</td>
<td>Housing closes, check-out deadline at 4 p.m.</td>
</tr>
<tr>
<td>August 22</td>
<td>Grades Mailed to Students.</td>
</tr>
</tbody>
</table>

*Calendar dates are subject to change. Please contact appropriate offices for verification and updates.

**Religious Holidays - 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.**

***Summer Term 'A' Grades will not be posted on transcripts, and graduation will not be processed until the end of the Complete Summer Term, August 18.***

**Fall Term 1995**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6 - 7</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>July 10 - 11</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>July 13 - 14</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>July 17 - 18</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>July 19 - 20</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>July 21</td>
<td>Transfer Student Orientation Sessions</td>
</tr>
<tr>
<td>July 24 - 25</td>
<td>Control Cards available.</td>
</tr>
<tr>
<td>July 31 - August 4</td>
<td>Official Registration</td>
</tr>
<tr>
<td>August 7 - 11</td>
<td>Open Registration</td>
</tr>
<tr>
<td>August 21 - 22</td>
<td>Freshman Orientation Sessions</td>
</tr>
<tr>
<td>August 23</td>
<td>Transfer Student Orientation Sessions</td>
</tr>
<tr>
<td>August 24 - 25</td>
<td>Registration Days</td>
</tr>
<tr>
<td>August 28</td>
<td>Classes Begin.</td>
</tr>
</tbody>
</table>
General Information

State Board of Education
Lawton Chiles Governor
James C. Smith Secretary of State
Robert Butterworth Attorney General
Gerald A. Lewis Comptroller
Tom Gallagher State Treasurer
Bob Crawford Commissioner of Agriculture
Douglas Jamerson Commissioner of Education

Florida Board of Regents
Carolyn K. Roberts Chairman, Ocala
Jon C. Moyle Vice-Chairman, West Palm Beach
Andrea L. Anderson Ft. Myers
Julian Bennett Jr. Panama City
Paul Cejas Miami
Perla Hantman Miami Lakes
James F. Heekin, Jr. Orlando
Douglas Jamerson Commissioner of Education
Elizabeth Lindsay Sarasota
Thomas P. Petway III Jacksonville
Dennis Ross Tampa
Steven J. Uhlfelder Tallahassee
Welcom H. Watson Fort Lauderdale
Charles B. Reed Chancellor, State University System
Jeffrey O. Deen 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, Budget, and IRM
Mary L. Pankowski Vice President for North Miami 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 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 Boker 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 Miami 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 Fort Lauderdale.

University Park
The University Park is sited on 342 acres of land. The campus has ten 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 1994; a $10 million Arts Complex to be completed in 1995; a $1.5 million Baseball Stadium Complex to be completed in 1994; a Labor Studies building to be completed in 1994; a Nautilus/Fitness Center to be completed in 1994; a Conservatory to be completed; a $7.5 million Education building to be completed in 1995; an $8.4 million Campus Support Complex to be completed in 1995; a Health and Life Sciences building to be completed in 1994; and major campus infrastructure improvements.

North Miami Campus
The North Miami 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 me-
dia laboratory. 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 multi-purpose commercial kitchens. Current plans are working on a $606,000 Student Health/Wellness Center to be completed by 1994. 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 Summer 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 and 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* ("Name change pending BOR approval. Formerly the School of Public Affairs and Services").

For the past five years in a row, FIU has been named as "One of America's Best Colleges" by U.S. News & World Reports 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, 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 of 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
- History
- International Studies
- Linguistics
- 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
- Psychology

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 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 tract in Varying Exceptionalities)
- Teaching English to Speakers of Other Languages (TESOL)
- Technology Education
- Urban Education
- Vocational Education (majors in Administration, Supervision, and Technical and Vocational Industrial Education)
- Education Specialist (Ed.D.)
- Curriculum and Instruction (majors in Educational Leadership
- 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
- Master of Landscape Architecture
- Mechanical Engineering
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
*(Pending BOR approval. Formerly the School of Public Affairs and Services)

North Miami Campus Programs

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
*(Pending BOR approval. Formerly the School of Public Affairs and Services)

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)
Doctor of Education in Adult Education and Human Resource Development (UT)
Doctor of Education in Community College Teaching (UT)
Doctor of Education in Curriculum and Instruction (UT)

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)
*(Pending BOR approval. Formerly, the School of Public Affairs and Services)

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
Language 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
Legal Translation and Court Interpreting
School of Journalism
Tropical Commercial Botany
Translation Studies

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
Medical Record Coding
Occupational Therapy
Prosthetics and Orthotics

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

School of Nursing
Professional Certificate in Advanced Nursing Practice in Adult Health

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
*(Pending BOR approval. Formerly, the School of Public Affairs and Services)
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 a ‘B’ average in upper level work, or a combined score of 1000 on the Graduate Record Exam (GRE) or a score of 500 on the Graduate Management Admission Test (GMAT) when applicable and required by the individual department, or a graduate degree.

All graduate applicants, regardless of previous grade point average or degree, 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.

Application Dates

Summer
February 1: Last day for international students to submit applications for Summer Term.
March 1: Last day for international students to submit all supporting academic credentials, appropriate test scores and Declaration and Certification of Finances. Last day to submit applications for Summer Term.

Fall
April 1: Last day for international students to submit applications for Fall Term.
June 1: Last day for international students to submit all supporting academic credentials, appropriate test scores and Declaration and Certification of Finances. Last day to submit applications for Fall Term.

Spring
September 1: Last day for international students to submit applications for Spring Term.
October 1: Last day for international students to submit all supporting academic credentials, appropriate test scores and Declaration and Certification of Finances. Last day to submit applications for Spring Term.

All 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 earned elsewhere as a graduate degree-seeking student. A maximum of six semester hours of graduate credit earned from another institution in a non-degree seeking status may be transferred. A maximum of six thesis credit hours may be transferred to a doctoral program only if they are part of an earned degree.

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

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

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

By 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 applicant has been found admissible to the university.

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

<table>
<thead>
<tr>
<th>Single Student (18 sem hrs)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees (^1)</td>
<td>$6,600</td>
</tr>
<tr>
<td>Maintenance (^2)</td>
<td>$7,605</td>
</tr>
<tr>
<td>Books &amp; Supplies</td>
<td>$750</td>
</tr>
<tr>
<td>Medical Insurance (^3)</td>
<td>$515</td>
</tr>
<tr>
<td>Total</td>
<td>$15,370</td>
</tr>
</tbody>
</table>

\(^1\)Tuition and fees are subject to change. Fees include the Student Health Fee ($30 per semester) and the Athletic Fee ($100 per semester). Amounts shown reflect nine semester hours for graduate during Fall and Spring terms only.

\(^2\)Maintenance is estimated at $845 per month to cover room, board, clothing, transportation, and incidentals. This cost is for nine months.

\(^3\)All international students are required to carry medical insurance.

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)(10) 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 unless 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 competence 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, or 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 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 PS 130, 348-2383, the North Miami Campus office is located in AC 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 doctorate 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 student subsequently applies for regular admission and is accepted as undergraduate or graduate student.

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 acquiring affiliated status from the department in which they are registering.

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

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

Affiliated Students

Students applying for affiliated status as non-degree seeking students must be approved by the appropriate Dean's Office in accord 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 concerning that all requirements of the degree being sought have been completed.
3. Earned an overall average GPA of 3.0 in all courses.
4. Met the grade requirements for major, core courses, and course sequences established by the appropriate College or School.

**Doctoral Degree**
The University will confer the doctoral degree when the following conditions have been met:
1. Recommendation of the faculty of the College or School awarding the degree.
2. Completion of the residency and time limitation requirements.
4. Certification to the Registrar by the Dean of Graduate Studies that all academic requirements have been met.

**Academic Definitions**

**Program and Course Regulations**

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

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

**Electives:** Students may 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 requirements should be considered in selecting elective courses. Students should refer to their academic program requirements concerning electives.

**Certificate Programs**

Students who have completed an approved certificate program will have an appropriate notation placed on their transcript.

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

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

**Change of College/School or Major**
A fully admitted graduate student can change majors, provided he or she meets the entrance requirements of the new program, by 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 Miami Campus; or at the Broward Program, BCC Central Campus, 475-4160 and University Tower, 355-5236.

Registration for courses is as follows:

- **Registration Week:** 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:** 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:** 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 secure access code and information on the Voice Response Telephone Registration system by the Office of Registration and Records.

**Immunization**
To register for courses, students must provide the University Health Clinic (Student Health Center, University Park; HM 110, North Miami 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 student’s 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 "WF" 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

<table>
<thead>
<tr>
<th>Grade Points Per Grades Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
</tr>
<tr>
<td>A-</td>
</tr>
<tr>
<td>B+</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>B-</td>
</tr>
<tr>
<td>C+</td>
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<tr>
<td>C</td>
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<tr>
<td>C-</td>
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<tr>
<td>D+</td>
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<tr>
<td>D</td>
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<tr>
<td>D-</td>
</tr>
<tr>
<td>F</td>
</tr>
<tr>
<td>P</td>
</tr>
<tr>
<td>IN</td>
</tr>
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</tr>
<tr>
<td>DP</td>
</tr>
<tr>
<td>DF</td>
</tr>
<tr>
<td>NR</td>
</tr>
<tr>
<td>EM</td>
</tr>
</tbody>
</table>

1. IN is only a temporary symbol. It will revert to the default grade after two consecutive terms.

2. NR 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 a ‘AU’ grade will be recorded on the student’s records. 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 being audited. Once the course is registered for as an "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 due to circumstances beyond the student’s control. 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.

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 first 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’, ‘DF’, ‘WF’, ‘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
Students who do not graduate must complete the remaining requirements needed for graduation and must re-apply for graduation.

Academic Warning, Probation, and Dismissal
Warning
A student whose cumulative GPA falls below 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.

Graduate Records
Graduate 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 disclosure or publication of student information is governed by policies of Florida International University and the Board of Regents of the State University System of Florida within the framework of state and federal laws, including the Family Educational Rights and Privacy Act of 1974.

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:

- Faculty, administrators, staff and consultants employed by the University or the Board of Regents whose work involves:
  1. Performance of administrative tasks which relate to students;
  2. Performance of supervisory or instructional tasks which relate to students; or
  3. Performance of services which benefit students.

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

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

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

In order to prevent access to or release of Directory information, students or the parents of dependent students, must notify the Registrar (PC 130), in writing prior to the first class meeting day of the semester. Access to, or release of Directory Information in writing 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 AC1-160, North Miami 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.

Training Status

| Full time | 9 Credits |
| 3/4 time | 7 Credits |
| 1/2 time | 5 Credits |
| Less than 1/2 time | 4 Credits |

Rate of Payment Number of Dependents
For rate of monthly payment of educational allowances for veterans and dependents, please contact Office of Veterans 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 above enrollment status is for continuous enrollment for the semester that the student is attending. Re-daction 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 as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify).
3. Submit the following documentation or in the case of a dependent student, the parent must submit documentation, prior to the last day...
of registration for the term for which resident status is sought:

a. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:

   (1.) Declaration of Domicile.

   (2.) Proof of purchase of a home in Florida which the student occupies as his or her residence.

   (3.) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment record).

b. Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which resident status is sought):

   (1.) Declaration of Domicile.

   (2.) Florida Voter’s registration.

   (3.) Florida Driver’s license.

   (4.) Proof of real property ownership in Florida (e.g., deed, tax receipts).

   (5.) Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.

   (6.) Proof of membership in or affiliation with community or state organizations or significant connections to the State.

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

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

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

   (10.) Proof of domicile in Florida of family.

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

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

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

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

c. No contrary evidence establishing residence elsewhere.

d. Documentation of dependent/independent status (IRC 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.
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 all 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 a qualified Certificate Program 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 studies; and,
- maintain satisfactory 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 to pay for 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 Material.
- 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 one 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 counter.

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

University Park, PC 125, Miami, FL 33199, (305) 348-2431

North Miami Campus, 3000 NE 145 St., AC 160, Miami, Florida 33181-3600, (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 1994-95 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>$55.89</td>
<td>$219.30</td>
</tr>
<tr>
<td>Graduate, Thesis</td>
<td>$107.81</td>
<td>$360.83</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.

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 Miami ACI 140. Broward students may pay at the Broward Community College Cashier's Office, or by mail or at the Cashier's Office at University Park or North Miami. Night drop boxes outside the Cashier's Offices are available 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 $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 Miami 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. Re reinstatement will be considered for all courses in 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 Miami 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

<table>
<thead>
<tr>
<th>Per book per library hour</th>
<th>.25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum fine per book</td>
<td>$5.00</td>
</tr>
<tr>
<td>Lost book fine</td>
<td>$35.00</td>
</tr>
</tbody>
</table>

Intern Certificate of Participation

| Per credit hour | $4.76 |

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

A refund will be made upon written application by the student of all fees, for all courses dropped during the drop/add period.

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 less the capital improvement and building fees. Refund will be made only upon written application by the student.

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.

Processing of refund applications begins after the end of the drop/add period each semester.

Appeals for tuition refunds must be submitted in writing to the Cashier's Office 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
The Office of Academic Affairs over-
sees the planning and administra-
tion of the instructional programs of
the Colleges and Schools of the Uni-
versity. Matters affecting faculty, cur-
riculum, and the development of
undergraduate and graduate de-
gree programs fall within its purview.
Consequently, both the Office of Un-
dergraduate Studies and the Office
of Graduate Studies report to the Of-
fice of Academic Affairs.
This office also supervises aca-
demic support programs, such as
Continuing Education, the Libraries,
Instructional Media Services, Spon-
sored Research and Training,
FAU/FIU Joint Center for Environ-
mental and Urban Problems, Latin
American and Caribbean Center,
Institute for Judaic Studies, Institute
for Public Policy and Citizenship
Studies, The Art Museum, Multilingual-
Multicultural Studies Center, South-
est Florida Center on Aging, and
the Women's Studies Center.

For detailed information on the
University's academic Centers and
Institutes, refer to the Center and
Institute Section.

Office of Undergraduate
Studies
Fernando Gonzalez-Relgosa, Dean
Glenda Belote, Associate Dean
Rosa Jones, Associate Dean
Joe Wisdom, Associate Dean
William Beesting, Assistant Dean

The Office of Undergraduate Studies
is responsible for undergraduate pro-
gram activities that span more than
one academic unit. Included in
these activities are the Academic
Advising Center, offering advising
for freshmen, undecided majors, stu-
dents changing majors, and non-de-
gree seeking students, and
monitoring of Core Curriculum and
General Education requirements;
the University Learning Center, pro-
viding CLAST counseling and aca-
demic preparation, national test
administration, and assistance in im-
proving academic skills; the Faculty
Scholars and Invitational Scholars
awards and the University Honors
Program; Academy for Art of Teach-
ing; and ROTC. The office is located
in DM 366, University Park, 348-2099;
and ACl-180, North Miami Campus,
940-5754.

Office of Graduate
Studies
Richard L. Campbell, Dean
Ruben D. Joon, Coordinator

The Office of Graduate Studies is un-
der 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 gradu-
ate policy, procedures, and plan-
ing; graduate financial aid,
acquisition and distribution; Univer-
sity clientele linkages for develop-
ment support and productivity;
program external advisory
committees; graduate program review
and accreditation; and planning,
development, budgetary support
and external resources in coopera-
tion with academic deans.

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

The Graduate Dean works with
the Graduate Council in the formu-
lation 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 curric-
ulums changes proposed by aca-
demic units and endorses by the
University's Curriculum Committee.

Another committee in the Office
of Graduate Studies is the Advisory
Committee for Graduate Studies.
This Committee makes recommend-
tions to the Graduate Dean on
the implementation of graduate
policies and procedures on all pro-
grams that offer graduate degrees.
The Dean of Graduate Studies
serves as Chair of this Committee.
Generally, the members on this
Committee are assistant and associ-
ate deans who have responsibility
for graduate education in their re-
spective academic units.

Human Research Committee. Dr.
K. Galen Kroock, Professor of Man-
agement, Chairs the University Re-
search Council which, among other
things, is in charge of making deci-
sions and giving approval to the use
of human subjects on projects and
research conducted by University
professors and students. In addition,
the Committee makes recommend-
dations for fostering University wide
research productivity.

Graduate students seeking infor-
mation on general graduate poli-
cies and procedures, or instructions
on preparing and filing the thesis or
dissertation, should contact the Of-
cine of Graduate Studies in PC 520,
University Park, or call 348-2455 for
an appointment.

Libraries
Lawrence Miller, Director
Antonie Downs, Associate Director

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

The total library collection com-
promises a million volumes, in addition
to substantial holdings of federal,
state, local, and international docu-
ments; maps; microforms; music
scores; newspapers; institutional ar-
chives; and curriculum materials.
The Library subscribes to 7,025 schol-
arily journals and other serials.

A computerized catalog of li-
brary 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 Con-
gress system, except for some of the
documents and special collections
(e.g., U.S., Florida, and U.N. docu-
ments, archives, etc.) which are ar-
 ranged by their own classification
systems and have separate public
catalogs.

In keeping with the University's
commitment to day and night op-
eration, the libraries are open when
the University is in session and during
vacation periods. For exact library hours, please consult the posted schedules or 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 teletype for time-critical requests.

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### 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. (an asterisk indicates services available to students):

**The Centers For Instructional Technology**¹ 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 Miami).

**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** produces instructional media programs (video and audio recordings, both in-studio and remote, teleconferencing, and multi-media programs) for faculty and staff. (VH-245 at University Park; services available to all FIU campuses).

**Equipment Distribution and Scheduling**¹ 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 Miami Campus).

¹(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 940-5629, LIB-150, North Miami 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.

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### 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 contract and grant programs for the University. For more information, contact 348-2494.

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**The Art Museum**

**Dahlia Morgan, Director**

The Art Museum at Florida International University has served the South Florida community for the last fifteen 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' Metropolis Museum and Art Center Collection, The Cintas Foundation of Contemporary Hispanic Art and a permanent collection of works by North and South American and Florida 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, Draftsmen and Sculptors; Mira, Mira, Mira: Los Cubanos de Miami; Adolfo Gottlieb: Paintings and Works on Paper; Marcel Duchamp; Louise Bourgeois; The Philips Collection in the Making: 1920-1930: Imagenes Liricas: New Spanish Vision; CUBA-USA: The First Generation; Antoni Tàpies in Print; Agustin...
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

The Division of Business and Finance comprises the offices of Auxiliary Services, Personnel, Equal Opportunity Programs, Facilities Management, Physical Plant, Controller, Purchasing, Environmental Health and Safety, Training and Development.

Auxiliary Services

Auxiliary Services supervises the bookstore and food service operations at both University Park and the North Miami Campus. Including 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 the Cashier's Office at each campus.

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: Hazardous Materials and Waste Management; Asbestos Operations and Maintenance Planning; Fire Safety and Building Safety Code Compliance, Radiation Safety; Laboratory Safety; and Indoor Air Quality investigations.

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

Equal Opportunity Programs

The office provides leadership and direction in the administration of the University equalization programs for women and minorities in several ways. It prepares the University's annual Affirmative Action Plan, assists University units in implementing and monitoring affirmative action procedures; provides a channel for employee and student grievances regarding discrimination, or issues indicating a need for additional affirmative action; administers implementation of the Policy to Prohibit Sexual Harassment; coordinates University compliance with the Americans with Disabilities Act, and promotes effective relationships between the University and community organizations. The Office also administers the State University System scholarship programs funded for the purpose of increasing minority enrollment. In addition, the Office maintains a liaison relationship with State and Federal agencies dealing with EEO and affirmative action. The Office is located on the University Park in PC 215.
Americans 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.

AIDS Policy

Students and employees of the University who may become infected with the 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 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 AIDS, acting upon and administering the University's Policy on 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 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 Miami 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, national origin or natural origin. Under the policies, it does not matter whether the discrimination was intended or not; rather 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 being a protected class or having a protected status. Illegal sexual harassment includes unwelcome physical contact of a sexual nature, overt or implied threats to induce performance of sexual favors, verbal harassment, use of sexually suggestive terms, or display or posting of sexually offensive pictures.

Any employee, applicant, or student who believes that he or she may be the victim of unlawful discrimination may file a complaint with the Office of Equal Opportunity Programs, PC 215, University Park (348-2785) in accordance with the 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, programming 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

The Office of Personnel Relations provides human resource management services for personnel of all academic and administrative departments on the University Park, North Miami and Broward Campuses. Categories of personnel who receive services are faculty, administrators, staff and student employees (including research or graduate assistants, college work study students, and student OPS employees). 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 Pay, Benefits, Personnel Records, Employee Assistance and Labor Relations.

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

Internal Management Auditing

Internal Management Auditing 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.

Legal Affairs

Legal services are provided to the university under a contract with the law firm of Valdez-Fauli, Cobb, Bishop, Kiss, and Mandler. 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 Miami Campus is responsible for the operation and logistics of physical resources; including the maintenance, enhancement, and repair 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/transition. Call 940-5783 for more information.

North Miami,
University Outreach,
and Enrollment Services

Continuing Education
Caroll W. Baldyga, Dean
Doris K. Sadoff, Assistant Dean
J. Patrick Wagner, Director,
Academic Credit Programs

The University extends academic credit and non-credit learning opportunities through the Division of Continuing Education. 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 times and locations to increase opportunities for students to access the higher education they deserve. Learning opportunities are made available at locations throughout Dade, Broward and Monroe counties, the University’s campuses, and other locations as appropriate, and are scheduled to meet student needs. Study abroad courses are available in several disciplines, and are offered in Asia, Africa, Latin America and Europe. Instruction can be designed to serve specific needs and respond to requests from community groups, professional organizations, businesses and industry.

The Division’s central office is located in ACI-100, North Miami Campus, 940-5669. Offices and services are also available in PC 245, University Park, 348-2491.

Administered through North Miami Campus and University Outreach, the Division of Continuing Education carries out its mission of extending lifelong learning opportunities through the Department of Academic Credit Programs and the Department of Professional Development and Public Service.

Academic Credit Programs
Over 200 courses for academic credit are offered annually off-campus and weekends on campus in collaboration with the University’s nine Colleges and Schools. Any course listed in the University Catalog may be conducted at a suitable location in Dade, Broward or Monroe counties. Courses are regularly conducted at hospitals, banks, community schools, and other public and private facilities appropriate for educational delivery. 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 Miami Campus, and the University's Broward Community College, Central Campus office. Special registration arrangements are made to accommodate students meeting at off-campus sites.

Sponsored Credit Institutes are contractual agreements through which an employer, public agency, or professional organization collaborates with the University to provide credit courses and degree programs for its constituents. 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 the University’s Continuing Education Programs available through the Department, call 940-5669 in Dade, and 1-(800) 310-5548 in Broward.

Professional Development and Public Services
Non-credit programs to develop professional competence, increase business skills, and provide personal enrichment are offered through short courses, workshops, seminars, and certificate programs.

Seminars, lectures, and workshops featuring University faculty or national and international experts in many disciplines are presented in collaboration with Centers and Institutes, and academic units.

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

Non-credit program information is published each semester by the Division and may be requested at the Division’s offices at University Park and North Miami Campus, or by telephone, 940-5669 (Dade and Monroe). 1-(800) 310-5548 (Broward). Registration is initiated by mail, phone or fax at the above locations, or at the first session of each program on a space available ba-
occupational competence through practical and substantive instruction.

Legal Assistant Certificate
The Legal Assistant curriculum consists of core courses which meet in the evenings supplemented by monthly Saturday seminars, and an intensive program which meets only on Saturdays. Practitioners completing a course or seminar may request CLA continuing education units from the National Association of Legal Assistants.

Certificate for Professional Travel Agents
This comprehensive four-month course skills required in the transportation and tourism industry with emphasis on the travel agency profession. The program offers a combination of academic exercise, practical application, and on-the-job training to develop desired qualifications. Certain phases of the program are highlighted by field trips to provide firsthand knowledge of travel industry suppliers.

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 and informs 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 Miami Campus, 348-5760; Trailers, Broward Program, 475-4150.

Office of Financial Aid
The Office of 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 evaluation criteria provided by national agencies. 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 Miami Campus, 348-2431.

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, Veteran's Affairs, Graduation.

The office staff has the responsibility to serve 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.

Enrollment Support Services, a division of the Office of Registrar, manages the Division's computerized student records database, the University's degree audit (SASS), Records Archiving, and several computer-related programs. This unit also provides computer system planning support to academic units and other departments in the University. The University Catalog and the Course Schedule booklet published each semester are produced in this unit.

Location: PC 130, University Park, 348-2383; ACI 160 North Miami Campus, 940-5750; Broward Program, 475-4150.

Student Affairs
The mission of the Division of Student Affairs is to contribute to the total educational process of students by creating a learning environment which fosters personal growth and development; promotes cultural diversity; provides programs and services which enhance intellectual, social, cultural, physical, emotional, and spiritual development; and prepares students to become contributing members of the community.

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, Women's Center, Minority Student Services, Orientation, Precollegiate Programs, Public Safety, Student Counseling, Student Government, Student Health Services, Student Judicial Affairs, University Centers, University Housing, 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 Miami Campus, offices are located in the Student Center Building, the Hospitality Management Building, and the third floor of the Library.

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. In addition, Campus Ministry sponsors programs and activities which are non-denominational.

Location: GC 340, University Park, 348-2215; SC 265, North Miami Campus, 940-5609 or 940-5610.

Career Planning and Placement
Career Planning and Placement (CP&P) assists students with the identification of their skills, values and interests and provides the necessary tools for on-going self assessment. CP&P provides five services: Career
Advisement, Career Mentoring Programs, Cooperative Education, Career Placement, and the Job Location and Development Program. Through these services students and alumni learn up-to-date information about the world of work, career/major choices, occupational trends, career options, and job search techniques.

Cooperative Education allows students to combine classroom theory with career related practical work experience. Students work in professional training positions related to their major field of study and earn both a salary and academic credits.

CP&P hosts numerous workshops and seminars, schedules on-campus interviews, operates a resume referral system, and lists job vacancy notices for part-time, full-time, and summer employment. It also houses a comprehensive career library, and a computerized career guidance system. The office provides evening hours at University Park.

Location: GC 230, University Park, 348-2423; SC 260, North Miami Campus, 940-5813 Trailers, Broward Program, 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; SC 260, North Miami Campus, 940-5813; Bldg 9, Room 224, Broward Program, 948-6793, TTY/TDD 348-3852.

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 Council. An Interfraternity Council governs fraternities and a Panhellenic Council governs sororities. In addition, 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 219, University Park, 348-2950.

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-AA level since September of 1987, having competed successfully at the Division II level since 1972. Programs and services in Intercollegiate Athletics provide an opportunity for student-athletes to develop as skilled performers in an educational setting. Much emphasis is placed on the student as a student-athlete to ensure intellectual, emotional and social well-being.

Athletics

Athletic team membership is open to all full-time students. 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 handicap.

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 powerlifting 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 multi-purpose facility which serves as the base for University programs in physical education, athletics, and recreation. The arena has a seating capacity of 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 Miami 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 Miami 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.
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 Miami.
Fitness Center: 348-2575, University Park; 940-5678, North Miami Campus.
Golden Panther Arena: 348-2900.
Racquet Sports Center: 348-2763, University Park; 948-4572, North Miami 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 also 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 216, University Park, 348-2436; North Miami Campus, 940-5817.

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 tutorial services; 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 Miami Campus, 940-5817.

Orientation

The Orientation program is designed to assist new students in understanding all aspects of the University environment.

New freshman and transfer students are strongly urged to attend an Orientation program before their first term of enrollment. Several Orientation sessions are scheduled each Summer Term and one session is offered before the Spring Term. Information about the Orientation program and related services is mailed to newly admitted undergraduate students.

Location: GC 340, University Park, 348-3828, SC 363, North Miami, 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, 348-2436.

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 if paid by check or money order. If paid at the cashier's office a receipt will be issued which must be presented at Public Safety 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, 348-2636 (Information), 348-2911 (Emergency); SO II, North Miami Campus, 940-5555 (Information), 940-5911 (Emergency).

Student Activities

Student Activities provides learning opportunities in which students can 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 Miami Campus, 940-5804; Modular 12.1 Broward Program, 355-5280.

Student Counseling Services

Student Counseling Services focus on enhancing the emotional well-being of students. A variety of individual and group services are offered, including career/lifestyle counseling, workshops on mental health and wellness issues, and personal counseling for problems associated with anxiety, depression, interpersonal relationships, coping skills and feelings of inadequacy.
Student Government Association

The Student Government Association (SGA) is comprised of representatives from all Schools and Colleges who are elected by the student body. There is a Student Government Council at both North Miami and University Park. SGA appropriates an annual budget generated by the Activity and Service fee which is paid by all students at the time of registration. Bills, appropriations, and resolutions come before the SGA for discussion, support, funding, or other action on matters related to various activities, issues or causes.

SGA members represent the student body on university-wide committees and task forces to ensure student representation at the administrative level. Students are encouraged to become involved in all aspects of Student Government.

Location: GC 311, University Park, 348-2121; SC 365, North Miami Campus, 940-5690; Modular 121, Broward Program, 355-5280.

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, family 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), Sexual Assault Response Program, Peer Educators, and the Student Health Advisory Council.

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 students, 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 348-4020
North Miami Campus
HM Bldg., Room 110 940-5620

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 extracurricular activities.

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

University Centers

The University Center on each campus provide direct services to students and the University community. The Graham Center (GC) at University Park, and the University Center (UC) at North Miami are the focal points for the University community to meet and interact in a non-classroom, educational environment. As the hubs of student life, the buildings house the Student Government offices, the "Beacon" student newspaper. They also offer the services of computer labs, bookstores, cafes, grills, vending machines, automatic banking facilities, auditoriums, lounges, meeting rooms, ballrooms, and game rooms.

The Graham Center houses the radio station (WUFJ), TicketMaster, a satellite cashiering office, and an overnight lodging facility. The N.M. University Center houses a post office and a theater.

Both centers also house services provided by the Division of Student Affairs (Career Planning & Placement, Counseling Services, Disability Services for Students, International Student Services, Minority Student Services, and Student Activities, Student Union, Women's Center and Volunteer Center).

Other services include lost and found, locker rental, vending refunds, test preparation courses, and Photo I.D. card.

Staff in the centers also coordinate the scheduling of space and
assist with the production of student and university-sponsored events.

Location: GC 104, University Park 348-2297; UC 124, North Miami Campus, 940-5800.

University Housing
University Housing offers convenient accommodations at both University Park and the North Miami 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 listing. Contact: Jim Wassenaar, UP, Location(s): UP H102, Residence Hall, NM, Phone(s): 348-4190, UP; 940-5583, NM.

Volunteer Action Center
The Volunteer Action Center (VAC) is a unique and innovative center dedicated to expanding the role of service-learning and community service 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. The center provides diverse opportunities for students to apply classroom knowledge with service experience.

Location: GC 318, University Park, 348-2149.

Women's Center
The Women's Center was established to provide women, within the student body, programs and services related to their intellectual, social, emotional and professional growth. The Center coordinates and collaborates with other areas of the University to meet the needs and enhance the lives of a varied female student population.

The Center provides support by serving as a coordinator in guiding women to appropriate resources both within, and outside the Center. The Center's programming focuses on the particular needs and concerns of women within the FIU community, and the environment in which they live. The Center encourages joint initiatives which facilitate connections and reduces isolation among women. Location: GC 318, University Park, 348-3692.

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

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 Relations and Development 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 five units providing professional staff and services to support the University’s public relations and advancement activities.

Media Relations is the University’s primary linkage with the print and broadcast news media. News releases and public service announcements on university programs, policies, events, faculty, administrators and students are issued by the office to news media. Media Relations also produces the University’s public affairs television program, “FIU in View”.

Public Affairs plans and administers community-oriented public relations activities and projects, including those directed to the local and national Hispanic communities. In addition, the office handles a variety of other media relations and public affairs projects.

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, and the FIU Alumni News.

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.

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 Miami, and Broward campuses. Computer hardware accessible to students includes a DEC Alpha 7620 supermini computer running Open VMS, a SUN SPARC server 690 MP and SPARC server 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 X 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 Miami Campus combined micro and terminal lab is located in A1C-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 940-5599 for information concerning the North Miami 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.

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**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 Miami (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 Miami. 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 Miami.

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**Centers and Institutes**

**Center for Accounting, Auditing, and Tax Studies**

The Center for Accounting, Auditing, and Tax Studies (CAATS) conducts and sponsors innovative 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 245B, University Park, 348-2581.

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**Center for the Administration of Justice**

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

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

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

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

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**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 resource 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-sponsors 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 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-332, University Park, 348-2771.

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**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; conducting research on the reactions that lead to formation of potentially carcinogenic compounds during water disinfection with chlorine; 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-examining biological sources of acid rain; 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 assistants in the DWRC laboratories or carry out independent research projects. Cooperation and interchange with other departments in the University is stressed.

The Center is part of the College of Engineering and Design and is located in VH 326, University Park, 348-2826.

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**Center of Economic Research and Education**

The Center of Economic Research and Education (CERE) is 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.

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**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, DM 392, 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 Miami Campus. The Institute's mission and scope is to initiate, plan, design, and manage non-credit short courses, lectures, seminars, and workshops for the retired older learner. Programs are offered during daytime hours, 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-385B, North Miami 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 FLU 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 PC 316, University Park, 348-2222, LC/ELI 204.

FAU-FLU 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 and environmental 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, seminars, 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, secretaries, 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, urban planning, and natural resource management. The Joint Center is committed to assisting government agencies and communities with research in these areas. Recent research topics have included public participation in local planning, energy urban design, military environmental policy, affordable housing, transportation and land use, and community development strategies.

Research clients have included the Florida Energy Office, U.S. Environmental Protection Agency, the U.S. Army Environmental Policy Institute, the Florida Department of Community Affairs, the Florida Department of Transportation, the Florida Board of Regents, the Metro-Dade Planning Department, and various community agencies.

The Joint Center at FIU is co-located and functionally affiliated with the FIU School of Design, the Center and the School have convergent interests in areas such as urban design, urban mobility, community planning, and other issues relevant to the shaping of Florida's rapid growth. Moreover, both have worked extensively in applying research to community rebuilding efforts in the aftermath of Hurricane Andrew. The need for more integrated planning at the community and regional scales—what is is a need well established but seldom addressed before the hurricane—is being answered in the context of the recovery and regeneration of southern Dade County. The increased coordination engendered by these redevelopment efforts will have implications far beyond the affected...
area. The Joint Center will continue to link university resources to communities and to the region, and will focus on 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. An agreement with the Universidad del Valle in Cali, Colombia will be the foundation for linkages among urban and environmental specialists at both institutions. An internship program for young South African town planners has been established through the auspices of professional planners at FIU and the South African Institute of Town and Regional Planning. The Joint Center is well suited to coordinate such programs because of its interdisciplinary orientation.

The FIU Institute of Government

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

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

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

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

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

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

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

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

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

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 of South Florida and in international context.
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 utili-
zation 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 interdisciplinary 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.

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**The HRS/Children, Youth and Families Professional Development Centre**

The HRS/Children, Youth and Families Professional Development Centre (PDC) at FIU is responsible for providing child welfare and juvenile justice 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 CFY 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.

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.

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**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.

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

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**Latin American and Caribbean Center**

The Latin American and Caribbean Center (LACC) promotes advanced education and research on Latin America and the Caribbean, a region of intense interest to the United States. It offers undergraduate and graduate certificate programs to both degree and non-degree seeking students, combines research in the social sciences and the humanities, 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; the Intercultural Dance and Music Institute, which organizes regular seminars and performances by artists and scholars of the arts; and the Leadership Center of the Americas, which has taught leadership and change-agent skills to over 1500 students from all over Latin America and the Caribbean.

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

**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 unique 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 Nurses 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 programs. Certificates may be earned in:

- Personnel Administration
- Training & Human Resource Development
- Managing Quality Health Care Systems
- Marketing

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 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, Fiduciary Trust International of the South, Steel Hector & Davis, and The Equitable Suquet Musibay Agency.

**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.

**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, multilingual 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 Cuban-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.

**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 Miami 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, providing that the survey research part of the project, if 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 un-
dergraduate 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 Miami 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 Miami-Dade County to the ethical implications of an aging society to the impact of government regulations on the fishing industry. The conferences are designed to offer the public and university community additional resources in understanding the policy problems that we, as a community, face on a daily basis.

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

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 busines management counseling and training.

In June 1980, the SBDC started actively fulfilling its mission to the small business community of greater Miami area by providing counseling services and training programs to the public. In the past year, the SBDC staff provided 4,530 people from the community with small business management training. Also, the Center counseled 3,100 persons in starting and managing their small businesses during the same period.

The Center also attracts many clients through its special services such as INFO-BID and the Florida Innovation Program. These services are designed to provide, respectively, leads for government and private contracts to Florida small businesses and assistance to the inventor/entrepreneur. In addition, we provide businesses interested in exporting assistance through our International Trade Center.

The SBDC is actively involved in promoting community relations for the University through the activities of its staff with Chamber of Commerce, trade associations, and community-based organizations. These activities include serving on committees and numerous speaking engagements.

The Center is located in Trailer MO-1, University Park, 348-2272, ACI 350, North Miami Campus, 940-5790, and 46 SW 1st Avenue, Dania, 987-0100.

Southeast Florida Center on Aging

The Southeast Florida Center on Aging offers a multi-disciplinary program in gerontology with a unique public sector focus. It is the mission of the Center to serve as a focal point for applied public policy research, to design and implement comprehensive gerontological education and training program for students, professionals and older learners, and to demonstrate concepts to serve older persons. The Center seeks to achieve its goals through a wide variety of educational activities designed to further the pursuit of knowledge and understanding about aging in today’s society, with particular emphasis upon the development, implementation, and evaluation of public policy.
Objectives: The Center supports, sponsors, conducts, and participates in a wide range of activities aimed at improving the quality of life for older people of South Florida. Pursuant to its mandate for education and training, research and community service, the Center is engaged in:

1. Development of gerontology education across disciplines throughout the University community.
2. Expanded opportunities for training and professional development of persons working with or planning to work with older people.
3. Aging research, with special emphasis on current and future public policy in the area of long term care.
4. A wide range of lifelong learning and educational opportunities for older people.
5. Technical assistance and support to public agencies and community organizations aimed at improving the effectiveness of programs for older people.

The Center consists of three components:

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

Education and Training: Organization, in close collaboration with the academic departments, of credit and non-credit certificate programs for undergraduate and graduate students and for practitioners in the field of aging. Delivery of training seminars and workshops both at the University and at locations throughout Southeast Florida.

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

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

The Center is located in ACI 333, North Miami Campus, 940-5550.

Women's Studies Center

The Women's Studies Center, established in 1982, is an interdisciplinary course program 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—in the workplace, in school, and at home—is analyzed through historical study and new theory. Equal emphasis 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 welcome students who wish to enroll in its courses without fulfilling the requirements for the certificate.

The Center offers faculty research in Women's Studies through various means including a publications series; research seminars; lecture series; and conferences, such as an annual Women's History Month Conference.

In addition to coordinating academic courses and research in Women's Studies, the program provides a place and opportunity for extracurricular activity. The center offers 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 community, and everyone is welcome to visit or inquire about out 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 "SGO-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 of 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 prepatory and vocational prepatory 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 Gabriel 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.
Administration and Staff

Office of the President

President Modesto A. Maldique
Executive Director Steve Sauls
Director, Internal Management Alfredo Acln
Director of Government Relations Karen Moore
Executive Assistant to the President TBA
Scheduling Coordinator Lorraine Sweeney

Academic Affairs

Provost and Vice President James A. Mau
Executive Vice Provost Judith A. Blucker
Vice Provost and Director, Sponsored Research Thomas A. Breslin
Vice Provost, Planning and Institutional Research Sushil Gupta
Vice Provost, Academic Budget and Personnel Irene Manos
Vice Provost, Academic Support Services Mary L. Pankowski
Assistant to the Provost Dennis Wiedman
Dean, Graduate Studies Richard L. Campbell
Dean, Undergraduate Studies Fernando Gonzalez-Rolgosa
Director, Instructional Media Services Blanca A. Riley
Director, Office of International Activities and Programs Dennis Gayle
Director, Libraries Laurence A. Miller
Director, The Art Museum Dahlia Morgan

Academic Deans

Dean, College of Arts and Sciences Arthur W. Herrlott
Dean, College of Business Administration Harold E. Wyman
Dean, College of Education I. Ira Goldenberg
Dean, College of Engineering and Design Gordon R. Hopkins

Dean, College of Health William J. Keppeler
Dean, School of Hospitality Management Anthony G. Marshall
Dean, School of Journalism and Mass Communication J. Arthur Heise
Dean, School of Nursing Linda A. Simunek
Dean (Acting), College of Urban and Public Affairs* Mark B. Rosenberg
(*Pending BOR approval. Formerly the School of Public Affairs and Services)

Libraries

Director Laurence A. Miller
Associate Director Antonie B. Down
Director of Administrative Services Calvin Burkhart
Assistant Director for Collection Development Salvador Miranda
Assistant Director, Reader Services Sherry Carrillo
Assistant Director, Technical Services Phoebe Phillips

Centers and Institutes

Director, Center for Accounting, Auditing, and Tax Studies Felix Pomeranz
Director, Center for the Administration of Justice Luis Salas
Director, Center for Banking and Financial Institutions John S. Zdanowicz
Director, Center for Economic Research and Education Jorge Salazar-Carrillo
Director, Center for Educational Development John A. Carpenter
Director, Center for Labor Research and Studies Guillermo J. Grenier
Director, Center for Management Development Willabeth Jordan
Director, Institute for Children and Families at Risk Katharine Blak
Director, Drinking Water Research Center William J. Cooper
Director, Elders Institute Diane Ollis
Director, English Language Institute Luis Sanchez

Business and Finance

Vice President Leonardo Rodriguez
Associate Vice President for Human Resources and Director of Personnel Janie Gooden-Greenleaf
Director, Auxiliary Services Juan Argudin
Director, Controller's Office James Ketzie
Director, Equal Opportunity Programs Toni Eisner-Margulies
Director, Facilities Management Ed Cannon
Acting Director, Environmental Health and Safety Jennifer Mwsela
Director, Physical Plant Jose Gerardo Gomez
Director, Purchasing Judy Weech
Director, Training and Development Fem Alcott
University Attorney Leslie Langbelin
## North Miami Campus, University Outreach, and Enrollment Services

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Vice President, and</td>
<td>Mary L. Pankowski</td>
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<tr>
<td>Vice Provost of Academic</td>
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<tr>
<td>Affairs</td>
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<tr>
<td>Dean, Continuing Education</td>
<td>Carolann W. Baldyga</td>
</tr>
<tr>
<td>Director, Admissions</td>
<td>Carmen A. Brown</td>
</tr>
<tr>
<td>Director, Financial Aid</td>
<td>Ana R. Sarasti</td>
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<tr>
<td>University Registrar</td>
<td>Jerry Montag</td>
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## Student Affairs

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Vice President</td>
<td>Richard J. Correnti</td>
</tr>
<tr>
<td>Associate Vice President</td>
<td>Thomas A. Syracuse</td>
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<tr>
<td>Associate Vice President</td>
<td>E. George Simms</td>
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<tr>
<td>Minority Programs</td>
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<tr>
<td>Assistant Vice President</td>
<td>Helen Ellison</td>
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<td>to the Vice President</td>
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<tr>
<td>Assistant to the Vice President</td>
<td>John A. Bonanno</td>
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<tr>
<td>Director, Career Planning</td>
<td>Annetta R. Davis</td>
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<tr>
<td>and Placement</td>
<td>Olgia Magnusen</td>
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<tr>
<td>Director (Acting),</td>
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<tr>
<td>Counseling Center</td>
<td>Alex Azan</td>
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<tr>
<td>Director, Disability</td>
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<tr>
<td>Services for Students</td>
<td>Peter Manhelmer</td>
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<tr>
<td>Housing</td>
<td>James R. Wassenaar, Jr.</td>
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<tr>
<td>Director, Intercollegiate</td>
<td>Ted Aceto</td>
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<tr>
<td>Athletics</td>
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<tr>
<td>Director, International</td>
<td>Ana Sippin</td>
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<tr>
<td>Student and Scholar</td>
<td>Robert Coatle</td>
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<td>Services</td>
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<td>Director, Minority</td>
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<td>Student Services</td>
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<tr>
<td>Director, Minority Student</td>
<td>Ozzie Ritchey</td>
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<td>Services, North Miami</td>
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<td>Campus</td>
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<td>Director, Student</td>
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<td>Activities</td>
<td>Larry Lunford</td>
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<tr>
<td>Director, Student Center</td>
<td>M. Whilt Hollis</td>
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<tr>
<td>North Miami Campus</td>
<td>Robert Dollinger</td>
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<td>Director, Health and</td>
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<td>Wellness Center</td>
<td>Ruth A. Hamilton</td>
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<td>Director, Student Union</td>
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<td>University Park</td>
<td>Harvey Gunson</td>
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<td>Director, University</td>
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<td>Public Safety</td>
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## University Advancement, Budget, and IRM

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<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Vice President</td>
<td>Paul D. Gallagher</td>
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<td>Associate Vice President</td>
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<td>Information Resource</td>
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<td>Management</td>
<td>James E. Helm</td>
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<td>Associate Vice President</td>
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<td>Development</td>
<td>Dale C. Webb</td>
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<tr>
<td>Assistant Vice President</td>
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<td>University Relations</td>
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<td>Connie Crowther</td>
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<td>Director (Acting),</td>
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<td>Alumni Affairs</td>
<td>Eduardo Hondal</td>
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<td>Director, Budget Planning</td>
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<td>Charles L. Tinder</td>
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<td>Director, Computer</td>
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<td>Systems and Services</td>
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<tr>
<td>Jacqueline M. Zeliman</td>
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<td>Director, Development</td>
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<td>Communications</td>
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<td>Roger E. Wyman</td>
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<td>Director, Media Relations</td>
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<td>Dan Kalmanson</td>
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<td>Director, Public Affairs</td>
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<td>Uva A. Clavijo</td>
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<td>Director, Publications</td>
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<tr>
<td>Terri Wiltherell</td>
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<td>Director, SERDAC</td>
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<tr>
<td>Frederick Koch</td>
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<td>Director, Telecommunications</td>
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<tr>
<td>Zulelka De Las Pozas</td>
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<tr>
<td>Director, University</td>
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<tr>
<td>Events</td>
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<tr>
<td>Lane Coleman</td>
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</table>
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 18 departments, in addition to the School of Computer Science, and three interdisciplinary programs.

Graduate Programs

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

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

Brad Bennett, Assistant Professor

Charles Bigger, Associate Professor

Richard Campbell, Research Scientist

Chun-Fan Chen, Associate Professor

Dan Childers, Assistant Professor

Wan-Hung Chiu, Research Scientist

Leon A. Cuervo, Professor

George H. Dalrymple, Associate Professor

Kelsey Downum, Associate Professor and Chairperson of Graduate Studies

Jeff Elhai, Assistant Professor

James Fourquerean, Assistant Professor

Walter M. Goldberg, Professor

Jack B. Fisher, Research Scientist

Kenneth Gordon, Associate Professor

Rene J. Herrera, Associate Professor

Ronald D. Jones, Professor

Christopher Keman, Research Scientist

Suzanne Koptur, Associate Professor

David N. Kuhn, Associate Professor

David W. Lee, Professor

John Makemson, Professor

Gerald L. Murlson, Professor

Steven F. Oberbauer, Associate Professor

Case K. Okubo, Associate Professor and Head of Undergraduate Advisor

Thomas E. Pilske, Lecturer

Jennifer Richards, Associate Professor

Laurel L. Richardson, Assistant Professor

Philip Stoddard, Assistant Professor

Martin L. Tracey, Professor

Joel Trelfer, Associate Professor

Opella J. Weeks, Associate Professor

Scott Zona, Research Scientist

Master of Science in Biology

To be admitted into the Master’s degree program in Biology, a student must:

1. Hold a Bachelor’s degree in a relevant discipline from an accredited college or university.

2. Have a 3.0 average or higher during the last two years of the undergraduate program and a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam.

3. Two letters of recommendation of the student’s academic potential.
4. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

5. Receive approval from the Departmental Graduate Committee.

6. Acceptance by a faculty sponsor.

Degree Requirements

The Master of Science in Biology consists of 36 credits, including a thesis based upon the student's original research. A maximum of six credits of post-baccalaureate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC 6457</td>
<td>Introduction to Biological Research</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5931</td>
<td>Graduate Seminar (one-credit course taken twice)</td>
<td>2</td>
</tr>
<tr>
<td>BSC 5945</td>
<td>Supervised Teaching in Biology</td>
<td>2</td>
</tr>
<tr>
<td>Workshops and Laboratories¹</td>
<td></td>
<td>4</td>
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<tr>
<td>BSC 6971</td>
<td>Master's Thesis²</td>
<td>6</td>
</tr>
<tr>
<td>Electives^</td>
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<td>21</td>
</tr>
</tbody>
</table>

Foreign language competency³

¹Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate techniques courses (minimum of three separate courses).

²These must include at least 16 credits of courses in the Department of Biological Sciences. No more than six credits can be transferred from another graduate program, subject to the approval of the Graduate Committee. At least six credits must be at the 6000-level (excluding thesis credits). Credits taken at the 4000-level beyond six, or at a lower level, will not count towards graduation.

³Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

⁴To be taken after qualifying exam is passed.

Graduation Requirements

A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 36 credits, and a thesis must be completed and accepted after presentation to an ad hoc Thesis Committee chosen by the student's Thesis advisor.

Doctor of Philosophy in Biology

To be admitted into the Ph.D. program in Biology, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university;

2. Have a 3.0 grade point average during the last two years of the undergraduate program or a Master's degree in a relevant discipline;

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

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

5. Arrive to have three letters of recommendation sent to the Biology Graduate Program Director evaluating the applicant's potential for graduate work;

6. Receive approval from the Departmental Graduate Committee.

7. Be sponsored by a Biology faculty member.

Degree Requirements

The Ph.D. in Biology is conferred on individuals in recognition of their demonstrated ability to master a specific field of knowledge and to conduct significant independent, original research. A minimum of 90 semester credits of graduate work beyond the baccalaureate are required, including a dissertation based upon the student's original research. A maximum of 36 credits may be transferred from another graduate program with the approval of the Advisory Committee.

Required Courses

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC 5931</td>
<td>Graduate Seminar (one-credit course taken twice)</td>
<td>2</td>
</tr>
<tr>
<td>BSC 5945</td>
<td>Supervised Teaching in Biology</td>
<td>2</td>
</tr>
<tr>
<td>Workshops and Laboratories¹</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BSC 7980</td>
<td>Ph.D. Dissertation</td>
<td>24</td>
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<tr>
<td>Electives^</td>
<td></td>
<td>8</td>
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<tr>
<td>Foreign Language Competency³</td>
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Recommended courses

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC 6457</td>
<td>Intro to Biological Research</td>
<td>3</td>
</tr>
</tbody>
</table>

¹Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate courses (minimum of three separate courses).

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

³Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements

A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 90 credits; demonstration of foreign language competency, and dissertation completed and accepted by the University.

Course Descriptions

Note: Laboratories should be taken concurrently with or subsequent to lectures. Students should register for each separately.

Definition of Prefixes

APB = Applied Biology; BCH = Biochemistry; BOT = Botany; BSC = Introductory Biology; EVR = Environmental Studies; MCB = Microbiology; OCB = Oceanography (Biological); PCB = Process Cell Biology; ZOO = Zoology.

BCH 5134C Workshop in Chromatography Techniques (1). Workshop covers the theory and practice of chromatographic techniques to separate complex mixtures of biomolecules, including absorption, ion exchange, size exclusion and affinity chromatography. Prerequisite: Graduate status.

BCH 5411C Techniques in Molecular Evolution Research (5). Ribosomal genes from related organisms are amplified by polymerase chain reaction (PCR) and sequenced. Phylogenetic maps are made by computer from sequence data. Students may use material from their own research. Prerequisites: 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 Radiosotope Use and Safety (1). Workshop in the safe use of radios isotopes in biological and biochemical experimentation, labelling of biochemical compounds, purification of labelled compounds, and instrumentation involved in the 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 (chemi- and 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. Prerequisites: BOT 4405, one year of chemistry or instructor consent.

BOT 5515 Biochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including biosynthesis and degradation of natural products as well as their biological/pharmacological activity. Prerequisite: CHM 3211 or BCH 3033.

BOT 5575 Photobiology (3)
BOT 5575L Photobiology Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as 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 relationships of plants and 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 5605C Plant Ecology (4). In-depth study of plant ecology at three levels: individual, population, and community. Laboratory and field exercises will examine lecture topics.

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

BOT 5862C 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 1010, BSC 3043 or permission of instructor.

BOT 5924 Workshop in Tropical Families (3). An introduction to important spermatophyte families, including systematic, 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 con-
temporary topics in classification, including molecular evidence, numerical methods and cladistics. 
Prerequisite: 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 5931 Graduate Seminar (1). Presentation of thesis proposal seminar or thesis defense seminar. Permission of instructor required.

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.

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, 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 dissertation. Prerequisite: Permission of major professor.

BSC 7980 Ph.D. Dissertation (1-12).

MCB 5405 Biology of Photosynthetic Bacteria (3).

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

MCB 5505 Virology (3)


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 microorganisms, particularly bacteria. Prerequisite: Permission of instructor.

MCB 6635 Marine Microbiology (3)

MCB 6635L Marine Microbiology Lab (1). Physiological-ecological study of the distribution in situ activity 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 microbial topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

OCC 5634 Marine Ecology (3)

OCC 5634L Marine Ecology Lab (1). Laboratory to accompany Marine Ecology. Prerequisite: OCC 3043 Corequisite: Marine ecology.

OCC 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 5195 Histology/Microtechnique (3)

PCB 5195L Histology/Microtechnique Lab (1). Histology of fixatives and dyes; histology emphasizes procedures used in research and pathology labs including techniques for enzymes, proteins, carbohydrates, nucleic acids and lipids. Prerequisite: Biochemistry or Cell Physiology.

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

PCB 5344L Tropical Ecology Field Lab (2). 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 allochemicals in community structure. Prerequisite: Permission of instructor.

PCB 5615 Molecular and Organismic Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to specialization. Prerequisites: Genetics and Biochemistry.

PCB 5665 Human Genetics (3)

PCB 5665L Human Genetics Lab (2). Principles and techniques in the study 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 Signal Transduction (3). Hormones and neurotransmitters as extracellular messengers. Membrane receptors and mechanisms of signal transduction: membrane channels and enzymes, direct linkage and G-protein linkage. Second messengers. Prerequisites: BCH 3033 or PCB 3203.

PCB 5786 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transmission. 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. Steroid, peptide, and terpenoid hormones which control reproduction, growth, and other parameters. Prerequisites: BSC 1011, CHM 3211, one physiology course.

PCB 5835 Neurophysiology (3) PCB 5835L Neurophysiology (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. Prerequisites: PCB 4703 or PCB 3703 and PCB 3203 or BCH 3033.

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, 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 chromosomes: 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 interest. 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, ontogenetics, 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 1010, BSC 1011, PHY 3058, and PHY 3054 or equivalent.

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

ZOO 5456L Ichthyology Lab (1). Accompanies ichthyology lecture. Prerequisites: BSC 1010, BSC 1011, PCB 3043.

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
Kenneth G. Fulton, Assistant Professor
Arthur W. Herrfott, Professor and Dean
Gary G. Hoffman, Assistant Professor
Rudolf Jaffe, Associate Professor
Jeffrey A. Joens, Associate Professor
Wolfe Kadima, Assistant Professor
Leonard S. Keller, Professor
John T. Landrum, Associate Professor
Howard E. Moore, 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; ICC-Interdisciplinary Natural Sciences; OCC-Oceanography-Chemical.

CHM 5150 Graduate Analytical Methods (3). Analysis of analytical data, electrochemistry, spectrometrical techniques, chromatography, survey of new analytical methods. Prerequisite: Graduate standing or permission of instructor.

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.

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.

CHM 5236 Spectroscopic Techniques and Structures Elucidation (3). Advanced techniques for the spectroscopic identification of organic compounds. Interpretation of spectral information for determina-
tion of structures of various classes of organic compounds. Prerequisites: CHM 4220 and CHM 4230L.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisite: CHM 4220 or permission of 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 3410, 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 the theory of UV/visible, infrared, Raman, microwave, nmr, photo-electron, and mass spectroscopies, 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: 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 aquatic 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, electrochemistry, optimization theory, and computerized instrumentation. Prerequisite: CHM 4130 or permission of instructor.

CHM 6281 Environmental Organic Chemistry (3). Characteristics, origin, 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 applications. 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, origin, 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 problem-solving 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 are presented in 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 chemical analysis techniques used in forensic science and new techniques under development. Prerequisite: CHM 3120, CHM 3120L, CHM 3211, or permission of instructor.

CHS 5531L Forensic Analysis Lab (1). Laboratory to accompany Forensic Analysis CHS 5531. Prerequisite: CHM 3120, CHM 3120L, CHM 3211, or permission of instructor.

School of Computer Science

Michael Evangelist, Professor and Director

Bill Kraynek, Associate Director
Farah Arefi, Assistant Professor
Paul C. Attie, Assistant Professor
Toby S. Berk, Professor
David Barton, Professor
John C. Comfort, Professor
Yi Deng, Assistant Professor
Timothy Downey, Instructor
Ralmund Ege, Associate Professor
Dawn J. Holmes, Assistant Professor
Masoud Milani, Associate Professor
Jalendra K. Naviakaka, Professor
Cyril U. Oriji, Assistant Professor
Ana Pasztor, Professor
Alexander Pellen, Associate Professor
Norman Pestina, Instructor
N. Prabhakaran, Associate Professor
Naphtali Rishe, Professor
Orlando Saieda, Instructor
Wei Sun, Assistant Professor
Mark 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 verbal and quantitative score of 1000.

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

CEN 5011 Software Engineering 3
COP 6611 Advanced Operating Systems 3
COT 5420 Theory of Computation I 3
COT 6400 Analysis of Algorithms 3

In addition, the student must choose four courses from the following list, subject to the approval of the Graduate Committee:

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

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 the 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 650 on the quantitative portion and 500 on the verbal portion. 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 6545** Advanced Topics in Database Management 3
- **COP 6611** Advanced Operating Systems 3
- **COT 5420** Theory of Computation I 3
- **COT 6400** Analysis of Algorithms 3
- **COT 6421** Theory of Computation II 3
- **MAD 5405** Numerical Methods 3
- **STA 6807** Queuing and Statistical Models 3

In addition, all students

1. Must successfully pass a Qualifying Examination based on the required coursework.
2. Must take at least 12 hours of 6000-level 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;

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

- **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.

- **CAP 5701** Advanced Computer Graphics (3). Advanced topics in computer graphics: system architecture, interactive techniques, image synthesis, current research areas. Prerequisites: COP 3530 and CAP 3700 or equivalent, or by permission.

- **CDA 5312** Micro Processing for Software Designers (3). Design of application software for OEM products. Topics include: 16-bit microprocessor architecture and assembly language, HLLs for design of microprocessor software, software for multiprocessing and multiprocessor systems. Prerequisite: Permission of instructor.

- **CEN 6501** Distributed Processing (3). Study of distributed systems and equipment using data communications facilities. Analysis of system architecture, hardware, and software for system design. System integrity and performance issues and techniques are examined. Prerequisites: COP 6611, CEN 4500 and STA 6807.

- **CDA 6939** Special Topics: Advanced Topics in Computer Architecture (3). This course deals with selected special topics in computer architecture. Prerequisite: Permission of instructor.

- **CEN 5011** Software Engineering (3). This course deals with the design of large scale computer programs. Included are topics dealing with planning design, implementation, validation, metrics, and the management of such software projects. Prerequisite: CIS 4610.

- **CIS 5900** 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.

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

- **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.

COT 5421 Compiler Construction (3). Basic techniques of compilation; self-compilers; syntax encoding and recognition; code generation and optimization. Prerequisites: MAD 3512 and CIS 4610.

COT 5611 Advanced Operating Systems (3). Topics in operating system design: concurrent scheduling, security and protection, virtualizable architectures and monitors. Prerequisite: COP 4610.

COT 5464 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 4540.

COT 5656 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: COT 5420.

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

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.

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.

COT 6541 Theory of Computation II (3). Verification of program correctness; program schemes; fixed-point theory of programs; resolution and theorem proving. Prerequisite: COT 5420.

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.

MAP 6127 Simulation and Modeling (3). Two areas are covered in this course: advanced queueing models and simulation techniques. The relationships between these two areas, applications, and simulation languages will be among the topics covered. Prerequisites: COP 3530, and MAP 5117 or STA 6807.

Creative Writing

Donald Watson, Professor and Chairperson
Lester Standiford, Professor and Director, Creative Writing
Lynne Barrett, Associate Professor
John Duftesne, 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 Miami 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:

- Literature 15
- Writing Workshop 18
- Form and Theory 3
- Thesis 6

There is no foreign language requirement. Graduate workshops include short fiction, the novel, popular fiction, screenwriting, creative non-fiction, and poetry. The program places emphasis upon the preparation and completion of a book-length creative thesis.

Fellowships, teaching assistantships, and tuition remission scholar-
ships 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

Raul Moncarz, Professor and Chairperson
Hassan Arvin-Rad, Assistant Professor
Harvey Averch, Professor, Courtesy Appointment
Manuel J. Carvajal, Professor
Stan Czamanski, Visiting Professor
Irma de Alonso, Professor and Graduate Program Coordinator
Timothy Goodspeed, Assistant Professor
Alan Gummmerson, Visiting Instructor
Antonio Jorge, Professor of Political Economy
Ali Cem Karayalcin, Assistant Professor
Bruce Kelley, Assistant Professor
Panagas Llosatos, Professor
J. Kenneth Lipner, Assistant Professor
Jorge Salazar-Carillo, Professor and Director, Center for Economic Research and Education
Mira Wilkins, Professor
Maria Williamson, 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 study, or a combined score (verbal, quantitative, and analytic) of 1,550 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 coursework, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are:

Core Semester Hours
ECO 7115 Microeconomic Theory I 3
ECO 7206 Macroeconomic Theory I 3
ECO 7424 Econometric Methods I 3

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 School of Public Affairs and Services, 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 a least a 'B' (3.0) in the core courses; and must receive a grade of 'C' or higher in each course. If
the student decides to write a thesis, he/she must receive the grade of 'P' (pass) for ECO 6971.

**Doctor of Philosophy in Economics**

The 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).
3. Foreign students whose native language is not English must take the TOEFL and obtain a score of 550 or higher.
4. Three letters of recommendation from persons in a position to judge the applicant's suitability for graduate study in economics.
5. Approval of the Graduate Studies Committee of the Department of Economics.

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 required 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**

- **ECO 7115** Microeconomic Theory I 3
- **ECO 7116** Microeconomic Theory II 3
- **ECO 7206** Macroeconomic Theory I 3
- **ECO 7207** Macroeconomic Theory II 3
- **ECO 7405** Mathematical Methods in Economic Analysis 3
- **ECO 7424** Econometric Methods I 3
- **ECO 7425** Econometric Methods II 3
- **ECO 7305** History of Economic Thought 3

**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 test 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 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 of dissertation work, 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 that 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.

**ECO 5709 The World Economy (3).**

Designed to give an overview of the crucial issues in the world economy. Students who take this course will cover trade, capital, labor, and technology flows; economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIT Program.

**ECO 5735 Multinational Corporations (3).**


**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.

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.

ECO 7116 Microeconomic Theory II (3). The Hicks/Samuelson and Arrow/Debreu models of general equilibrium. Activity analysis and competitive equilibrium. Capital theory. Leontief/Staaffa/Marx systems. Temporary equilibrium and money. Prerequisites: ECO 7115 and ECO 7405.

ECO 7118 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7135 Growth, Distribution and Prices (3). Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo/Marxian, neo/Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.


ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, microeconomic foundations of macro-behavior, macroeconomic models, and basic open economy macroeconomics. Prerequisites: ECO 3203, ECO 4410, or equivalents; Calculus I; Calculus II recommended.

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.

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.

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.

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.

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.

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.

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.

ECO 7980 Dissertation (Ph.D.) (3-9). 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 6605 Urban and Regional Analysis (3). Application of economic analysis to urban growth and the urban-regional environment. Consid-
eration of public services, transportation, ghetto problems, and urban organization. Analysis of environmental protection problems and policies. Recommended preparation: ECO 3101, ECO 3203 and ECP 3303.

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.

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.

ECP 7035 Cost-Benefit Analysis (3). This course covers benefit-cost analysis, cost-effectiveness analysis, benefit-risk analysis, risk-risk analysis, and systems analysis. All of these techniques are designed to provide guidance to decision makers, particularly in the government sector. Prerequisite: ECO 3101.

ECP 7205 Labor and Human Resources (3). Empirical and theoretical analysis of the factors determining employment and earnings, recent developments in the theory of labor supply, critiques of neoclassical theory, and current issues in public policy. Prerequisite: Calculus.

ECP 7405 Industrial Organization (3). The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

ECP 7406 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.

ECP 7436 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.

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.

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.

ECS 7026 Development Economics: Planning and Policy (3). Planning and policy making in developing economies. Economy-wide planning models; project appraisal; financial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, and ECS 7405.

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.
English

Harry T. Andrime, Professor
St. George Tucker Arnold, Associate Professor
Lynne Barrett, Associate Professor
Lynn M. Berk, Professor
Michael Branch, Assistant Professor
Gisela Casines, Associate Professor
Manek Daruwalla, Associate Professor
Theresa DiPasquale, Assistant Professor
John Duttenhoe, Associate Professor
Charles Elkins, Professor
Mary Jane Elkins, Associate Professor
Peggy Endel, Associate Professor
Mary Free, Associate Professor
James Hall, Professor
Tomato Hopkins, Assistant Professor
Peter Hargitai, Instructor
Jeffrey Knapp, Instructor
Kenneth Johnson, Associate Professor
Kathleen McCormack, Associate Professor
Campbell McGath, Associate Professor
Asher Z. Milbauer, Associate Professor
Virginia Mueller Gathercole, Professor
Carmela Pinto McInlisle, Associate Professor
Adel S. Newson, Associate Professor
Robert Rahner, Instructor
Merl-Jane Rochelson, Associate Professor
Richard Schwartz, Associate Professor
Ronn Silverstein, Instructor
Ellen Spreckman, Lecturer
Lester Standford, Professor
Richard Sugg, Professor
Donald Watson, Professor and Chairperson
Butler H. Waugh, Professor
Robert Weinerber, Instructor
Barbara Wenzel, Instructor
C. Kem Williams, Associate Professor

Mehmet Yavas, Associate Professor

The English Department offers two graduate degree programs: Creative Writing and Linguistics. 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

AMEL - American Literature; CRW - Creative Writing; ENGL - English General; ENL - English Literature; LIN - Linguistics; UT - Literature.

AMEL 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.

AMEL 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.

AMEL 5009 Literary Criticism and Scholarship (3). Techniques and goals of humanistic research, bibliography, and critical commentary.

AMEL 5018 Practical Criticism (3). Applies various critical theories - e.g., the formalistic, historical, structural, archetypal, sociological, etc. - to specific literary productions.

AMEL 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.

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

AMEL 6909 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

AMEL 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.

AMEL 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.

ENGL 6942 College Composition Practicum (1). Practical experience in the teaching of English at the university and college level through supervised activities to include tutorials, evaluating, and commenting on student essays, supervised classroom discussion, and teaching. Course does not meet certification requirements. Prerequisite: Permission of instructor.

ENGL 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.

ENGL 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.

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 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.
Geology

Grenville Draper, Professor and Chairperson
Bradford Clement, Associate Professor
Charles Connor, Research Associate
David Generoux, Assistant Professor
Rosemary Hickey-Vargas, Associate Professor
Martha Gamper-Longoria, Research Associate
Michael Gross, Assistant Professor
Andrew Macarian, Assistant Professor
Florentin Maurasse, Professor
Claudia Owen, Lecturer
Edward Robinson, Research Associate
Gaulom Sen, Professor

The Masters of Science program in Geology prepares students for careers in research, teaching and as geoscientists and environmental specialists in the public or private sector. Research and instruction in the Department seeks to contribute to a better understanding of geological processes and problems especially as they relate to the South Florida and the Caribbean/Latin American regions. Well equipped laboratories expose students to the latest instruments and techniques. B.S. and B.A. degrees are offered at the undergraduate level, as is a minor in Geology.

Master of Science in Geology

Admission

To be admitted to the Master’s degree program in Geology, a student must meet the following minimum requirements:

1. Satisfactorily meet the University’s general requirements for admission.

2. Hold a Bachelor’s degree, or equivalent in a relevant discipline of Sciences or Mathematics. A maximum of 4-credit hours of advanced undergraduate course work will be allowed to count toward the Master’s degree. Students entering with a Bachelor’s degree in chemistry whose graduate work will be mainly in geophysics/petrology, or students entering with a Bachelor’s degree in Physics or Mathematics whose graduate work will be mainly in geophysics should take advanced test (GRE) in the field of undergraduate specialization.

3. Have a grade point average (GPA) of 3.0 or higher (or equivalent) during the last two years of undergraduate program, and a minimum combined score of 1000 in the verbal and quantitative parts of the Graduate Record Examination.

4. Students whose native language is other than English must demonstrate adequate level of proficiency in English as a foreign language. An equivalent score of 500 on the TOEFL (Test of English as a Foreign Language), of the Educational Testing Service is required.

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 term in which they are seeking admission:

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.

4. Scores of TOEFL English proficiency exam, when applicable.

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, including space) of educational goals and career projections. Applicant may also include a copy of previous written scientific work.

7. Three letters of recommendation from former professors or academic advisors. Applicants must also comply with deadlines set by the University for consideration for admission in the upcoming semester.

Degree Requirements

Program of Study

Introductory meetings with faculty members of the department are arranged for all incoming graduate students and a program of study is planned as early as possible after discussion with the chairperson of the Graduate Admission Committee.

Required Courses

A minimum of 28 credits within the Department, including:

GLY 5931/6931 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 concentration and electives are chosen by the student in consultation with an advisor. All such courses are selected to fit the student’s particular professional goals.

Foreign Language Competency

All students are required to have a reading knowledge of a modern foreign language. Competency will be determined by an examination which will consist of a clear translation into English of a technical paper from French, Spanish, German or Russian. Courses taken to gain such proficiency will not be counted toward graduation. As an alternative, students may substitute 6 credits of Computer Science or Mathematics beyond Calculus II.

Fields of Concentration

Petrology - Geochemistry

Field, analytical and experimental research in petrology/geochemistry of igneous rocks. Application of phase equilibria, and major element trace element and isotope systematics to the interpretation of the origin and chemical evolution of the upper mantle and magmas. Study areas include Hawaii, Chile, the Caribbean islands, the Bonin-Mari-ana arc-basin system and India.

Paleontology

Biostratigraphic analyses of major fossil groups and their application to universal problems of earth history as can be exemplified in Florida, the Caribbean and South America. Analyses of general problems of animal extinction, paleoecology of specific groups, evolution, and computer programs in paleontology. The department’s Caribbean Geological Collection includes the most comprehensive stratigraphic sections of the region to carry our stratigraphic analyses.

Stratigraphy - Sedimentation

Research on lithostratigraphy and facies analysis of sedimentary rocks of the circum Caribbean region, Mexico and South America. Tectonic evolution and paleoecology of sedimentary basins of these regions and their relationships to global and regional tectonic processes. Hydrocarbon assessment of potential source of rocks.
Structural Geology - Tectonics
Analysis of geologic deformation as it occurs from the microscopic to the regional scale, based on the principles of continuum mechanics, fracture mechanics and rock rheology. Geometry and dynamics of major types of structures. Structural analysis and tectonic synthesis. Field oriented investigations in the circum Caribbean region.

Geophysics
Application of geophysical methods to the investigation of current problems in the Earth Sciences. Likely thesis topics include: analysis of regional gravity, aeromagnetic and related potential field data from Mexico and the circum Caribbean, paleomagnetic stratigraphy and plate reconstruction, geophysical volcanology. Coursework will cover topics in geophysical principles, field methods and data analysis.

Hydrogeology/Environmental Geology
Field and modeling approaches to groundwater flow and solute fluxes in 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.

1. A minimum GPA of 3.0 in all coursework required for the master’s degree.

2. Satisfactory performance on qualifying examinations on general geologic skills and field of subspecialization. Failure to pass this examination will terminate the student's admission in the program.

3. Completion and successful defense of a thesis. Members of the thesis 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 course. Laboratories must be taken concurrently where noted, but students must register for the laboratory separately.

Definition of Prefixes
EVS-Environmental Science; GEO-Geography/Systematic; GLY-Geology; MET-Meteorology; OCE-Oceanography; OCG-Oceanography-Geological; OCP-Oceanography/Physical.

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.

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.

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.

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

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.

GLY 5286L Research Instrumentation and Techniques in Geology Laboratory (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.

GLY 5298 Topics in Geochemistry (3). Seminar covering current research in selected areas of low-temperature geochemistry: oceans and oceanic sediments; continental waters and sediments; hydrothermal systems. Prerequisite: GLY 4555 or permission of instructor.

GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of instructor.

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 paths.

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 paths.

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.

GLY 5346L Sedimentary Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4556 and GLY 4556L. Corequisite: GLY 5346.

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems involving natural rock deformation. Prerequisites: GLY 4200, MAC 3413, or permission of instructor. Corequisite: GLY 5408L.


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.

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.
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.

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.

GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and threedimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457.

GLY 5495 Seminar in Geophysics (3). Detailed investigation of current geophysical techniques, including topics on instrument design. Prerequisite: GLY 5457 or permission of instructor.

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 5345.

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.

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Survey of the stratigraphy of biostatigraphic 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 radiolarian species used as index-species in the equatorial-tropical biozone. Typified in Cretaceous and Cenozoic Caribbean sediments. Paleobio-geographic and paleoecologic considerations. Considerable time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GLY 4650 or permission of instructor.

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, agglutinate 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 field research project. Qualifications: Open to advanced undergraduate and graduate students in the earth and biological sciences or cognate fields.

GLY 5816 Economic Geology (3). Economically important metal deposits of sedimentary, igneous and hydrothermal origin and their geologic settings and characteristics. Prerequisites: GLY 1010, GLY 3200, CHM 1045, CHM 1046.

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.

GLY 5827 Hydrology (3). Recharge and discharge of groundwater, geologic controls on groundwater occurrence, movement and water chemistry. Prerequisite: Physical Geology, Chemistry, or permission of instructor.

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.

GLY 6159 Stratigraphy of the Cucum 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.

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.

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

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.

GLY 6328L Advanced Igneous Petrology Lab (1). Identification of rocks using microscopic and microprobe techniques. Prerequisite: Permission of instructor. Corequisite: GLY 6328.

GLY 6392 Topics In Igneous Petrology and Geochemistry (3). Research seminar in contemporary petrology and geochemistry. Student presentation on thesis research. Prerequisite: GLY 5322 or permission of instructor.

GLY 6417 Caribbean Structural Geology and Tectonics (4). Students will be assigned areas and/or topics to make a presentation of. These will be introduced and supplemented by lecture material. Prerequisite: GLY 5408.

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.

GLY 6468 Paleomagnetism (3). Physics of rock and mineral magnetism, geomagnetism and palaeomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostratigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3200 or permission of instructor. Corequisite: GLY 6468L.

GLY 6468L Paleomagnetism Laboratory (1). Physics of rock and minerals magnetism, geomagnetism and palaeomagnetism, field and laboratory methods, geomagnetic field behavior, magnetostratigraphy, apparent polar wander. Prerequisite: GLY
4400, GLY 3200 or permission of instructor. Corequisite: GLY 6468

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.

GLY 6496 Advanced Topics in Geophysics (3). Discussion of research projects and current literature in geophysics. Prerequisite: GLY 5495.

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and current literature with reports by members of the seminar. Prerequisite: GLY 5546.

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.

GLY 6627 Stratigraphic Micropaleontology: Radiolaria (3). Nomenclature, taxonomy and biostratigraphy of Cretaceous and Cenozoic radiolaria. Studies of stratigraphically important taxa from Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of instructor.

GLY 6628 Stratigraphic Micropaleontology: Calcareous Nannofossils (3). Nomenclature, taxonomy, and biostratigraphy of Triassic to Recent nannofossils. Intensive training of identification of marker taxa from land and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of instructor.

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.

GLY 6931 Advanced Graduate Seminar (1). Oral presentation and discussion by students of assigned literature survey, with reports by members of the seminar. Prerequisite: GLY 5931 or permission of instructor.

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.

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.

OGC 6105 Advanced Marine Geology (3).

OGC 6105L Advanced Marine Geology Lab (1). Application of geo-physical and geological data to the interpretation of the earth's crust under the oceans, including the data provided by the Deep-Sea Drilling Project, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisite: GLY 4730 or permission of instructor.

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 relationships in time and space. Prerequisite: GLY 4555 or permission of instructor.

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

History

Mark D. Szuchman, Professor and Chairperson
Daniel A. Cohen, Assistant 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 Litshitz, 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. Treadgold, Professor
Victor M. Urte, 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 choose to follow either a thesis or a report track, in consultation with the Department's Graduate Advisor. Students must make their selection either prior to registering for their first Research Seminar or before completing the first twelve (12) semester-hours toward the degree, whichever comes first. The degree requirements for the M.A. vary somewhat, according to the option taken.

Entrance Requirements

Requirements for admission into the M.A. degree program in History are the same regardless of the option selected. Applicants must also satisfy any additional requirements the University sets for admission to graduate work. Applications should include transcripts from any postsecondary institutions attended, GRE scores, and two (2) letters of recommendation.

Applicants seeking entrance for the Fall Term should prepare all application materials in time for the Department of History to receive them no later than February 15. Applicants will be notified of the Department's decision regarding their application no later than March 15.

Application materials from individuals seeking entrance for the Spring Term must be received by the Department of History no later than October 15. Applicants will be noti-
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.
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).
   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 with the regulations stipulated in the University's Graduate Policies Manual. The thesis 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.
4. HIS 6059 (Historical Methods) 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 5915  Research in American History
AMH 5935  Topics in American History
EIH 5905  Readings in European History
EIH 5915  Research in European History
EIH 5935  Topics in European History
LAH 5905  Readings in Latin American History
LAH 5915  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

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 5915 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 5935 Topics in American History (3). An examination of specific themes or topics in American history. The theme will vary from semester to semester, and with a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule.) 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 5915 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.

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, and with a change in theme, the course may be repeated. (The theme will be announced in the yearly schedules.) 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. This course treats the problems involved in the preparation of the Master's thesis. 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.
International Relations
Ralph S. Clem, Professor and Chairperson
Ken I. Boodhoo, Associate Professor
Thomas A. Breslin, Associate Professor
John F. Clark, Assistant Professor
Peter R. Grauer, Assistant Professor
Damian J. Fernandez, Associate Professor
Dean L. Hansen, Assistant Professor
Farrokh Jhabvala, Professor
Antonio Jorge, Professor
Charles G. MacDonald, Professor
Mohaddin Mesbahi, Associate Professor
Rod Neumann, Assistant 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 (or 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 application is 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
- Dynamics of International Relations in the Twentieth Century
- International Political Economy
- Research Seminar I
- Research Seminar II

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.

- Electives and Independent Studies: Directed Readings: 27 credits
- 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.
International Studies

Damian Fernandez, Director, International Studies

Participating Departments:
Raul Moncarz, 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)
CPO 5035 Politics of Development 3
ECS 5025 Economic Problems of Emerging Nations 3
INR 5607 International Relations and Development 3
POS 5706 Research Methodology 3
SYP 5447 Sociology of International Development 3

Electives
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 an ability to organize existing knowledge, synthesize the available information from more than one discipline, and focusing that knowledge to illuminate 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.

derpinnings of realism, idealism, liberalism and radicalism.

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.

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

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

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 6603 (World Politics).

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.

INR 6750 Thesis (1-6). Registration for students working on their thesis. Prerequisites: All other coursework for the Master's in International Studies.
Linguistics

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

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 '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)
LIN 5018 Introduction to Linguistics 3
LIN 5206 Phonetics 3
LIN 6323 General Phonology 3
LIN 6510 Syntax I 3
LIN 6805 Semantics 3

General Linguistics Track

Required Courses: (6)
LIN 5146 Historical and Comparative Linguistics 3
LIN 5620 Syntax II 3

The remaining hours must be chosen from any graduate course offer-
ings with an UN 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 UN 6572 "Structure of a Non-Indo-European Language", as part of their 36-hour program.

Examination Requirement
Students will be required to take a written comprehensive exam in Linguistics.

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.

LIN 5017 Cognitive Linguistics (3). Explores the nature of human reason and categorization as revealed by language. Examines the role of metaphor, imagination, and bodily experience in human thought processes. Prerequisites: 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.

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.

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. Prerequisites: 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.

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. Prerequisites: 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. 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 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. Prerequisites: 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. Prerequisites: 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. Prerequisites: 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. Prerequisites: 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.

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.

LIN 6520 Syntax II (3). In-depth analysis of contemporary theories of syntax. May be repeated for credit with content changes. Prerequisite: LIN 6510.

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. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 6805 Semantics (3). The study of linguistic semantics. Language-uni-
versal 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.

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
Dev K. Roy, Associate Professor and Chairperson
Gerardo Aladro, Associate Professor
William Calbeck, Assistant Professor
Mark L. Copper, Assistant Professor
Julian Edward, Assistant Professor
Dominika Fox, Instructor
Susan Gorman, Instructor
Steven M. Hudson, Associate Professor
George Kafkoulis, Assistant Professor
Mark Leckhman, Associate Professor
Zongyi Li, Assistant Professor
Diana McCoy, Instructor
Abdelhamid Meziani, Associate Professor
Richard Nadel, Instructor
Anne Pilkington, Assistant Professor
Taje Ramsamujh, Associate Professor
David Ritter, Assistant Professor
Michael Rosenthal, Instructor
Richard L. Rubin, Associate Professor
Philippe Ruklmbra, Assistant Professor
Anthony C. Sherwin, Associate Professor
Minna Shore, Instructor
James F. Silker, Associate Professor
W. Jay Sweet, Assistant Professor
Graham Taylor, Assistant Professor
Enrique Villamor, Assistant Professor
Willie E. Williams, Associate Professor
John Zweibel, Associate Professor

Master of Science in Mathematical Sciences
Admission
The following are in addition to the University's graduate admission requirements
1. Bachelor's degree in mathematics, applied mathematics or mathematical sciences from an accredited university or college.
2. A 'B' average or higher in upper division mathematics courses.
3. Graduate Record Examination taken within the past five years, with at least 650 on the quantitative portion and 500 on each of the other two parts.
4. Three letters of recommendation concerning the candidate's achievement and potential, from persons familiar with the candidate's previous academic performance.
5. Approval of the Graduate Committee.

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

List A:
- MAA 5616 Introduction to Real Analysis 3
- MAP 5236 Mathematical Techniques of Operations Research 3
- STA 5446 Probability Theory 3
- STA 6807 Queueing and Statistical Models 3

List B:
- MAD 5405 Numerical Methods 3
- MAD 5407 Methods of Applied Analysis 3
- MAS 5145 Applied Linear Algebra 3
- COT 5420 Theory of Computation I 3
- COT 6400 Analysis of Algorithms 3

Electives
The student must choose six hours of graduate level coursework in computer science, economics, engineering, mathematics, physics or statistics, with the prior approval of the Mathematics Graduate Committee.

Master's Project
The student will prepare an expository paper under the direction of a faculty member, who will assign the grade. The student may earn six credit hours for independent study 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

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 5616 Introduction to Real Analysis (3). Lebesgue Measure and Integral with applications to integral transforms. Prerequisite: MAS 3105, MAA 4211, MAP 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: MAS 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 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.

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.

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 on integer spaces, Markov chains, transition matrix and ergodic properties, strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 3313.

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.
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. 3
- One course in either Medieval Spanish literature or Peninsular Spanish literature, 19th or 20th centuries. 3
- Two courses in Spanish American Literature. 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, 5606, 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, 5387, 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; **FRT**-French Language; **FRW**-French Literature (Writing); **GER**-German Language; **POR**-Portuguese Language; **SPN**-Spanish Language; **SPT**-Spanish Translation; **SPW**-Spanish Literature (Writing).

(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 (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 (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: FRE 5060 or equivalent.

**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 (3). The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: FRE 3780 or LIN 3010, LIN 3013, LIN 5018 or the equivalent.

**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. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic framework: research approaches. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisite: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

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 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 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’s writing in translation. Emphasis on cultural and linguistic considerations involved in the translation of literary texts. Prerequisites: Graduate standing or permission of instructor.

SPW 5406 Colonial Latin American Literature (3). The most important and representative literary works of Colonial Latin America from the Chronicles to Lizardi. Prerequisites: Upper level and graduate standing.

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 sarniento, to 1950. The novels and authors studied are representative of ‘costumbrismo’, ‘romanticismo’, ‘naturalismo’, ‘modernismo’, and ‘criterismo’.

SPW 5277 Twentieth Century Spanish Novel, from 1956 to the Present (3). Analysis of the Spanish novel from Fefitas’s El Jarama to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martinez Santos, Umbral, Delibes, Benet, Gaytiso, and others will be included.

SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations, defining and analyzing the qualities which give originality and newness both in themes and language.

SPW 5346 Poetry of Jorge Guillen (3). Selected readings from the five volumes of Aire nuestro. Emphasis on the techniques of close reading and explication. Related selections from Guillen’s literary criticism.


SPW 5359 Graduate Seminar: Poetry of Pablo Neruda (3). Chronological examination of the major works of Chile’s Nobel Laureate. Related readings from Neruda’s Memories. Emphasis on the poet’s linguistic and aesthetic innovations.

SPW 5387 Women and Poetry (3). Women as poets and the poetized. Close reading of Peninsular and Latin American texts, 16th - 20th Century. Students examine the contributions of women and how they have been represented in poetry. Prerequisite: 4000 or 5000 level course in Hispanic Poetry.

SPW 5405 Medieval Spanish Literature (3). Readings in Medieval literature of Spain including the epic, the learned poetry of the XIIIth and XIVth Centuries, and the literature of Juan II’s court. Prerequisites: Graduate standing and permission of 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. Includes Quevedo’s picaresque novel El Buscón, 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 American: 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 Nineteenth Century Novel of Realism and Naturalism including Alarcon, Perez Gallos, Pardo Bazan, Clarin and 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, Najarra, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5606 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: 4000 or 5000 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 Bazán, Matute, Lafont, Martín 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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### 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:

- **PHY 5115 Mathematical Physics I** 3
- **PHY 5116 Mathematical Physics II** 3
- **PHY 5240 Advanced Classical Mechanics** 3
- **PHY 5346 Advanced Electromagnetic Theory I** 3
- **PHY 5347 Advanced Electromagnetic Theory II** 3
- **PHY 6645 Advanced Quantum Mechanics I** 3
- **PHY 6646 Advanced Quantum Mechanics II** 3
- **PHY 6524 Statistical Physics** 3
- **PHY 6935 Graduate Research Seminar** 4-6

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**: Physics, **PHY**: Physics; **PHZ**: Physics; **PSC**: Physical Sciences; **ENU**: Nuclear Engineering.

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**AST 5215 Stellar Astrophysics (3)** Topics in Stellar Astrophysics, in greater detail and depth than similar topics in AST 5213. Emphasis on current stellar structure, evolution models and the underlying observational data. Prerequisites: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent.

**AST 5405 Extragalactic Astrophysics (3)**. Topics in extragalactic astrophysics, in greater detail and depth than similar topics in AST 5213. Emphasis on Galactic structure and evolution, quasars and cosmology.

**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.

**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.

**PHY 5235 Nonlinear Dynamics and Chaos (3)**. Introduction to the universal behavior of classical systems described by nonlinear equations. Prerequisites: PHY 4222, MAA 4211.

**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.

**PHY 5346 Advanced Electromagnetic Theory I (3)**. Advanced treatment of classical electromagnetism: Electrostatics, Green’s function, Laplace’s equation, multipole expansion, magnetic-statics, Maxwell’s equations, waves. Prerequisite: PHY 4324.

**PHY 5347 Advanced Electromagnetic Theory II (3)**. Additional topics in classical electromagnetism: Wave guides, radiating and diffracting systems, Kirchhoff’s integral for diffraction, covariant formulation of field equations. Prerequisite: PHY 5346.

**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.

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

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

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.

PHY 6645 Advanced Quantum Mechanics I (3). Advanced topics in quantum mechanics: Quantized systems, relativistic quantum mechanics, potential scattering. Prerequisite: PHY 4605.

PHY 6646 Advanced Quantum Mechanics II (3). Additional topics in advanced quantum mechanics: Collision theory, symmetry transformations, conservation laws, group theory. Prerequisite: PHY 6645.

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 6658 Relativistic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields. CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6646.

PHY 6669 Relativistic Quantum Field Theory II (3). Additional topics in relativistic quantum fields: Perturbation theory, U matrix, Wick's theorem, dispersion relations, renormalization, Ward identity, renormalization group, path integral formalism. Prerequisite: PHY 6668.


PHY 6676 Quantum Theory of Many Particle Systems II (3). Additional topics in the physics of many particle systems: Fermi gas, Bose condensation, Hartree-Fock approximation, random phase approximation, finite temperature formalism, hadrons. Prerequisite: PHY 6675.

PHY 6935 Graduate Research Seminar (1-2). Seminars presented by students, faculty, and visitors on a variety of topics of current research interest. Repeatable. Required every semester.

PHY 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of Department.

PHY 6971 Master's Thesis (3). Theoretical and/or experimental research leading to thesis. Prerequisite: Permission of major professor.

PHY 7980 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in theoretical or experimental physics under faculty supervision. Prerequisite: Permission of instructor.

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.

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

PHZ 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, crystalline surfaces, and amorphous materials. Prerequisites: PHY 3124 or CHM 3411.

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3603, 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.

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, nonabelian symmetries, the standard SU(3)xSU(2)xU(1) model, non-perturbative features, lattice regularization and numerical simulation. Prerequisites: PHY 4605, PHY 5346.

PHZ 6425 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.
Political Science

Mary Volcansek, Professor and Chairperson
Ronald Cox, Assistant Professor
Bruce DeWittler, Associate Professor
Eduardo Gamara, Associate Professor
Joel Gottlieb, Associate Professor
Ivelaw Griffith, Assistant Professor
Kevin Hill, Assistant Professor
Heidi Hobbes, Assistant Professor
Antonio Jorga, Professor
Paul Lewis, Assistant Professor
Dario Moreno, Associate Professor
Brian Nelson, Associate Professor
Nicol Rae, Associate Professor
William Reno, Assistant Professor
Mark Rosenberg, Professor
Cheryl Rubenberg, Associate Professor
Rebecca Salokar, Associate Professor
John Slack, Professor
Judith H. Stiehm, Professor
Christopher Warren, Associate Professor

CPO 5935 Topics In Comparative Politics (1-6). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic will be announced in advance.

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.

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 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 5705 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 5934 Topics In International Politics (1-6). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic will be announced in advance.

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 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 5158 Topics In Politics (VAR). Subject matter varies according to instructor.

POS 5286 Judicial Research (3). Examination of the methodological approaches used to study courts in a political context. Special attention to seminars that focus on individual, small group and institutional behavior, and extra-legal influences.

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 5706 Research Methodology (3). This course is an introduction to the principal concepts and techniques of quantitative and non-quantitative methodology in the social sciences. It is designed to familiarize the student with the language and format of quantitative and non-quantitative applications in order to permit students to deal effectively with the literature of their field.

POS 5716 Foundations of Political Science (3). Prepares students for the advanced study of politics. Areas of study include history of Political Science as a discipline, comparison of classical and modern sciences of politics and realpolitik, epistemological foundations.

POS 5909 Independent Study (1-6). Designed for advanced students who wish to pursue specialized topics in political science. Arrangements must be made with instructor during prior semester.

POS 5932 Topics In Urban Politics (VAR). An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimated, and administered by urban policy-making processes. Includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas.

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 5062 Seminar In Comparative Judicial Politics (3). An examination of judicial structures, legal traditions, judicial behavior and judicial power cross culturally.

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 5407 Seminar In Politics of the Middle East (3). In depth analysis of comparative theoretical perspectives of political processes in the Middle East.
POS 6146 Seminar in Urban Politics (VAR). Graduate seminar on special topics in urban politics. Topic to be announced in advance.

POS 6937 Seminar in Politics (VAR). Subject matter varies according to instructor.

POS 6639 Seminar in Public Law (VAR). Graduate seminar on special topic in public law. Topic to be announced in advance.

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 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. Subject matter varies depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

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 6007 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.

Psychology

Scott Fraser, Associate Professor and Chairperson
Lorraine Bahrick, Associate Professor
Milton Blum, Professor Emeritus
Brian Cutler, Associate Professor
Marvin Dunn, Associate Professor
Joan Erber, Professor
Luis Escobar, Associate Professor
Gordon Finley, Professor
Ronald Fisher, Professor
Arthur Flexner, Associate Professor
Jacob Gewirtz, Professor
Edward Girden, Distinguished Professor Emeritus
Fernando Gonzalez-Relgosa, Associate Professor
David Kravitz, Assistant Professor
Lowell Krockott, Associate Professor
William Kurtines, Professor
Mary Levitt, Associate Professor
Gary Moran, Professor
Janet Parker, Associate Professor
James Rotten, Associate Professor
Juan Sanchez, Assistant Professor
Bernard Saper, Professor
Bennett Schwartz, Assistant Professor
Wendy Silverman, Professor
Jonathan Tubman, Assistant Professor
Chockalingam Visveswaran, 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. The core curriculum and admission prerequisites are intended to provide students with a base of knowledge in psychology. A distinctive feature of the program is its emphasis on a close working relationship between student and faculty. Under faculty supervision, students are encouraged to develop individually tailored programs of study that reflect both student interests and program strengths.

The curriculum consists of 36 semester hours of graduate study in which the exposures focus specifically on training the student to perform the skills mentioned above. Students are expected to select electives, project/thesis topics, and supervised field experiences that meet not only the degree requirements, but also their academic interest and particular professional objectives. Six of the 36 semester credit hours consist of Master’s thesis credits.

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 manifesta-

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, programing, 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. Prerequisites: 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 to Psychological Assessment (3). This course provides instruction in the principles and methods underlying the administration, construction and evaluation of psychological tests and measures. Prerequisite: Graduate standing.

CLP 6437 Behavioral Assessment in Childhood (3). Standardized tests and inventories for the behavior assessment of infants, children, and adolescents will be surveyed. Prerequisites: Proseminar courses and second year graduate standing.

CLP 6438 Psychological Assessment (3). Theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, and personality testing. May be repeated for credit with different subject matter. Prerequisite: STA 3122 and permission of 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.

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 Experiences 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 IU or permission of instructor.

CYP 6766 The Psychology of Cross-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 Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocirines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or permission of instructor. Corequisite: Proseminar courses.

DEP 5066 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 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging: 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: Pro-seminars.

DEP 6117 Psychology of Caregiving (3). A survey of theory and research on the effects of caregiving/parenting behaviors, and conditions on behavior outcomes in offsprings, both for infra humans and humans. Prerequisite: Graduate standing or permission of instructor.

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 6405 Psychology of Culture and Aging (3). An intensive examination of cultural influences on social and psychological aging processes including minority aging and involving seminar discussion and independent projects. Prerequisite: Graduate standing.

DEP 6466 Cognitive Processes in Aging (3). An intensive analysis of the background and recent developments in the area of age changes and age differences in intellectual functioning and learning memory processes. Prerequisite: DEP 5405.

DEP 6477 Psychology of Social Processes in Aging (3). An intensive analysis of the background and recent developments in theoretical models of social development, personality processes, and social processes in the older adult. Prerequisite: DEP 5405.

DEP 6645 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 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 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.

INP 5693 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of 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 5058 Proseminar In Social Psychology (3). An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisite: An introductory course in social psychology or its equivalent.

SOP 5316 Theories and Methods of Cross-Cultural Research (3). An intensive analysis of contemporary theories and methods of cross-cultural research in psychology including topics such as: culture as a research treatment, differential incidence of personality traits, the use of ethnographies, 'etic' vs. 'emic' distinction. Prerequisite: Graduate standing or permission of instructor.

SOP 5616 Social Psychology of Organizations (3). The application of concepts and theories from social psychology and sociology to the organizational setting. Emphasis would be on role theory, value formation and the operation of norms, including their development and enforcement. Formal and informal organization structure, power and authority concepts, and leadership theories will be covered. Communication processes and networks and their effects on task accomplishment and satisfaction will be included.

SOP 6098 Proseminar In Legal Psychology (3). The application of psychological research methods and psychological knowledge to contemporary issues in criminal and civil litigations. Prerequisite: Graduate Standing.

Sociology and Anthropology

Stephen M. Fjellman, Professor and Chairperson
G. Janice Allen, Assistant Professor
Jerald B. Brown, Associate Professor
Janet M. Chernela, Associate Professor
Chris Girard, Assistant Professor
Hugh Giadwin, Associate Professor and Associate 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. Malngot, Professor
James A. Mau, Professor and Provost
Betty Hearrn Morrow, Associate Professor
William T. Osborne, Associate Professor
Walter Gills Peacock, Associate Professor and Director, Comparative Sociology Graduate Program
Lisandro Perez, Associate Professor and Director, Cuban Research Institute
Alejandro Portes, Senior Visiting Professor
Alex Stepick, Professor and Director, Immigration and Ethnicity Institute
William T. Vickers, Professor
Lols 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. Se-
lected electives, graduate colloqui-

ums, and a research thesis complete
the requirements for the M.A.
in Comparative Sociology.

Admission Requirements
Application to the Master of Arts pro-

gram in Comparative Sociology is
made through FIU’s Office of Admis-
sions. 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 pro-
gram, or a combined score of 1000
or higher on the verbal and quanti-
tative sections of the Graduate Re-
cord Examination (GRE);

3. Two letters of reference from
former instructors or others who are
able to evaluate the applicant’s po-
tential for graduate study;

4. Foreign students whose native
language is not English must take
the TOEFL (Test of English as a For-
eign Language) and obtain a score
of 500 or higher.

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

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

A baccalaureate major in Sociol-
ogy 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, An-
thropology, or Statistics may be re-
quired to take one or more
undergraduate courses as prereq-
quisites for graduate courses (based
on the Graduate Committee’s evalu-
ation of the student’s under-
graduate 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 (in-
cluding 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

- SYA 6126 Contemporary Social
  Theories

- SYA 6305 Research Methods I

- SYA 6306 Research Methods II

- SYA 6925 Graduate Colloquium in
  Comparative Sociology (1 credit
  course taken three times)

Four electives in Sociology and
Anthropology (must be at the
5000-level or higher) 12

One elective in another department
(must be numbered 5000 or above
and be approved by the graduate
advisor) 3

SYA 6975 Thesis 6

Graduation Requirements
To remain in good standing and to
qualify for graduation, students must
maintain a graduate GPA of 3.0 or
higher. All M.A. course requirements
must be met and a thesis must be
completed and accepted after
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 Compara-
tive Sociology a student must meet
the University’s graduate admission
requirements and the following mini-

mum standards:

1. Students must have a bacca-
laureate degree from an accredit-
ed college or university. Students
who do not have a Masters in An-
thropology, Sociology, Comparative
Sociology, or related field will be ex-
pected to obtain the Masters in
Comparative Sociology at FIU on
their way to completing the require-
ments of the Ph.D.

2. A 3.2 grade point average
(GPA) or higher during the last two
years of the undergraduate pro-
gram or a combined score of 1100
or higher on the verbal and quanti-
tative sections of the Graduate Re-
cord Examination (GRE).

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

4. Three letters of recommenda-
tion from references who know the
student’s academic potential.

5. An example of written, aca-
ademic work.

6. Foreign students whose native
language is not English must take
the TOEFL (Test of English as a For-
eign Language) and obtain a score
of 500 or higher.

7. Approval of the Comparative
Sociology Graduate Studies Commit-
tee of the Department of Anthropol-
y and Sociology.

The Ph.D. program builds upon
the existing master’s program in
Comparative Sociology. Students in
FIU’s Comparative Sociology ma-
ter’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 cre-
its will be counted towards core or
track requirements (described be-
low).

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 trans-
ferred in accordance with the FIU
Graduate Policies and Procedures
Manual. A maximum of 36 semester
hours earned elsewhere as a gradu-
ate degree-seeking student may be
transferred. A maximum of 6 semi-
ster hours of graduate credit earned
from another institution in a non-de-
gree seeking status may be trans-
ferred.

Core Courses
These core courses are designed to
provide a minimal foundation in the-
ory and methods. The methods
courses include the computer-
based statistical analysis of com-
parative sociology data. All students
are expected to become thor-
oughly familiar with the use of com-
puters for Comparative Sociology
work, including for writing, bibliog-
raphy work, and data analysis.

Students will be expected to
take the core courses in sequence
and as a cohort of entering gradu-
ate students. Classical Social Theo-
ries and Research Methods I are
offered every Fall semester, while
Comparative Social Theories and
Research Methods II are offered...
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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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYA 6125</td>
<td>Classical Social Theories</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6126</td>
<td>Contemporary Social Theories</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6305</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6306</td>
<td>Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td>AN 5496</td>
<td>Social Research and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

An approved Methods course, such as AN 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 SYA 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.

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 values and symbol systems. Prerequisite: Graduate standing or permission of instructor.

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. Prerequisite: Graduate status or permission of the instructor.

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.

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

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

ANT 6303 Comparative Feminisms (3). Course examines feminisms and feminist movements in a global context. Taking several geopolitical areas as examples, the course analyzes the discourse of cultures, feminisms, and feminist movements. Prerequisites: One graduate level course on gender or permission of the instructor.

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 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.

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.

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 interrelatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior.

SYA 5909 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of instructor.

SYA 5941 Directed Field Research (VAR). Permission of instructor required.

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.

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.

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.

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.

SYA 6925 Graduate Colloquium in Comparative Sociology (1). Colloquia presented by faculty, visiting scholars, and graduate students on topics of current research interest. Repeatable. Prerequisite: Graduate standing.

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: SYA 6625 and SYA 6305.

SYA 6975 Thesis (1-6). Registration for students working on the thesis for the M.A. in Comparative Sociology or the M.A. in International Studies. Prerequisite: All other course work for the M.A. in Comparative Sociology or International Studies.

SYA 7940 Practicum Supervised Teaching (1-9). Practicum application in a supervised setting of knowledge acquired in the classroom. Hours may vary.

SYA 7967 Preparation: Preliminary Doctoral Exam (1-9). Preparation for the preliminary doctoral exam under the direction of a faculty member. Hours may vary.

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.

SYA 7980 Dissertation (1-9). Hours taken by students to work on the dissertation under the supervision of a major professor and the doctoral committee. Hours may vary.

SYA 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.

SYA 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.

SYA 6325 Seminar in the Comparative Sociology of Gender (3). The examination of women's and men's roles, status, and life opportunities from a historical and comparative perspective. Current theoretical developments in the study of gender are emphasized. Prerequisite: Graduate standing or permission of instructor.

SYA 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.

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 various topics in sociology, modernization, and development, and discuss them in a seminar format. Prerequisite: Graduate standing or permission of instructor.

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.

SYD 6655 Seminar on Social Change in Asia (3). An examination of social change in contemporary Asia, including the relationships between states, the changing political economies, and the role of social movements and cultural institutions in change. Prerequisite: Graduate standing or permission of the instructor.

SYD 6705 Comparative Analysis of Ethnicity and Race (3). Consideration of major theories of ethnicity and race and analysis of selected ethnic groups in various world regions. Includes the study of race and ethnic issues in Miami and the South Florida region.

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.

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.

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.

SYP 5447 Sociology of International Development (3). To introduce the basic concepts and questions of the field as applied to the international arena. To illustrate the common areas of social science analysis in dealing with questions of international development.

SYP 6306 Comparative Social Movements (3). Comparative analysis of social movements and social change, including peasant movements, environmentalism, civil rights, feminism, and nationalism. Competing theories of social movements are examined. Prerequisite: Graduate standing or permission of the instructor.

SYP 6907 Seminar in Comparative Social Change (3). The cross-cultural and comparative analysis of contemporary social change, including processes of social action such as terrorism, reformism, revolution, and the use of electoral systems and democratic processes. Prerequisite: Graduate standing or permission of the instructor.

Statistics
Carlos W. Brain, Associate Professor and Chairperson
Ling Chen, Assistant Professor
Gauri L. Gail, Associate Professor
Sneh Gulati, Assistant Professor
Ina Parks Howell, Lecturer
Jie Mi, Assistant Professor
Laura Reisert, Instructor
Samuel S. Shapira, Professor
Hassan Zahedi-Josbili, Associate Professor
Jyoti N. Zalkidar, Associate Professor

The Department of Statistics does not presently offer a degree program at the graduate level but does 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 association, 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.

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.


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 6576 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 3202.

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

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, nonparametric 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.

Visual Arts

Clive King, Professor and Chairperson
Ralph F. Buckley, Associate Professor
William Burke, Associate Professor
James M. Couper III, Professor
Carol Danum, Assistant Professor
Eduardo Del Valle, Associate Professor
Richard Duncan, Associate Professor
Mirta Gomez, Associate Professor
Eliel Jacobs, Professor
William Maguire, Professor
Juan Martinez, Assistant Professor
Dahla Morgan, Lecturer/Art Museum Director
Manuel Torres, Associate Professor
Barbara Watts, Assistant 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.

Course Descriptions

Definition of Prefixes

ARH-Art History; ART-Art; PGY-Photography.

ART 5105C Glassblowing (3). A basic course in hand glass blowing, concerned with preparing, blowing, and finishing glass; understanding of glass as an art form; operation and maintenance of a glass studio. May be repeated.

ART 5165C 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 5125C Drawing (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 5159C 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.
## College of Arts and Sciences

<table>
<thead>
<tr>
<th>Dean</th>
<th>Arthur W. Herrlott</th>
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<tbody>
<tr>
<td>Associate Dean, Curriculum and Advisement</td>
<td>Fred Bouma</td>
</tr>
<tr>
<td>Associate Dean, College Relations</td>
<td>Gisela Casines</td>
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<tr>
<td>Associate Dean, Graduate Studies and Research</td>
<td>Brian Cutler</td>
</tr>
<tr>
<td>Associate Dean, North Miami, Director, School of Computer Science</td>
<td>Joyce Peterson</td>
</tr>
<tr>
<td>Director, School of Computer Science</td>
<td>Michael Evangelist</td>
</tr>
</tbody>
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### Chairpersons and Program Directors:

- **Biological Sciences**: L. Scott Quackenbush
- **Chemistry**: Ramon Lopez De La Vega
- **Economics**: Raul Moncarz
- **English**: Donald Watson
- **Environmental Studies**: John Parker
- **Geology**: Grenville Draper
- **History**: Mark Szuchman
- **Humanities**: Ramon Mendoza
- **International Relations**: Ralph Clem
- **International Studies**: Damian Fernandez
- **Liberal Studies**: Janal Parker
- **Mathematics**: Dev Roy
- **Modern Languages**: Raelnda Sanchez
- **Music**: Fredrick Kaufman
- **Philosophy and Religious Studies**: Bruce Hauptli
- **Physics**: Kenneth Hardy
- **Political Science**: Mary Volcansek
- **Psychology**: Scott Fraser
- **Sociology and Anthropology**: Stephen Fjeliman
- **Statistics**: Carlos W. Brain
- **Theatre and Dance**: Therold Todd
- **Visual Arts**: Clive King

### Faculty

- **Adeotile, Leke, Ph.D.**: (University of California-Los Angeles), Assistant Professor, Philosophy and Religious Studies
- **Aladro, Gerard, Ph.D.**: (Pennsylvania State University), Associate Professor, Mathematics
- **Allen G. Janice, Ph.D.**: (University of Florida), Assistant Professor, Sociology/Anthropology
- **Amico, Michael, M.G.A.**: (Pennsylvania State University), Assistant Professor, Theatre and Dance
- **Antin, Harry, Ph.D.**: (University of Florida), Professor, English
- **Areli, Farahangiz, Ph.D.**: (University of Central Florida), Assistant Professor, School of Computer Science
- **Arnold, St. George Tucker, Jr., Ph.D.**: (Stanford University), Associate Professor, Economics
- **Arvin-Rad, Hassan, Ph.D.**: (University of Pennsylvania), Assistant Professor, Economics
- **Atti, Paul C., Ph.D.**: (University of Texas-Austin), Assistant Professor, School of Computer Science
- **Augenblick, John, D.M.A.**: (University of Miami), Associate Professor, Music
- **Bahnick, Lorraine, Ph.D.**: (Cornell University), Associate Professor, Psychology
- **Baker, Joan L., Ph.D.**: Baldor, Aurelio, M.A. (Florida International University), Instructor, Modern Languages
- **Barrett, Lynn, M.F.A.**: (University of North Carolina-Greensboro), Associate Professor, English
- **Barton, David, Ph.D.**: (University of Cambridge), Professor, School of Computer Science
- **Becic, Pascale, Ph.D.**: (University of California-Davis), Assistant Professor, Modern Languages
- **Becker, David, Ph.D.**: (Massachusetts Institute of Technology), Assistant Professor, Chemistry
- **Beer, Michelle, Ph.D.**: (University of Pittsburgh), Associate Professor, Philosophy and Religious Studies
- **Bennett, Bradley C., Ph.D.**: (University of North Carolina-Chapel Hill), Assistant Professor, Biological Sciences and Environmental Studies
- **Berk, Lynn, Ph.D.**: (Purdue University), Professor, English
- **Berk, Toby, Ph.D.**: (Purdue University), Professor, and Associate Director, School of Computer Science
- **Bigger, Charles, Ph.D.**: (Florida State University), Associate Professor, Biological Sciences
- **Blum, Milton, Ph.D.**: (New York University), Professor Emeritus, Psychology
- **Bone, Richard, Ph.D.**: (University of West Indies, Jamaica), Professor, Physics
- **Boodhoo, Ken, Ph.D.**: (University of the West Indies, Jamaica), Associate Professor, International Relations
- **Brain, Carlos W., Ph.D.**: (West Virginia University), Associate Professor, and Chairperson, Statistics
- **Branch, Michael, Ph.D.**: (University of Virginia), Assistant Professor, English
- **Breslin, Thomas A., Ph.D.**: (University of Virginia), Associate Professor, International Relations, and Vice Provost
- **Brooke, Lee, B.S.**: (The Juliard School), Associate Professor, Theatre and Dance
- **Brown, Jerry, Ph.D.**: (Cornell University), Associate Professor, Sociology/Anthropology
- **Buckley, Ralph, M.F.A.**: (Maryland Institute), Associate Professor, Visual Arts
- **Burke, William, M.F.A.**: (State University of New York at New Paltz), Associate Professor, Visual Arts
- **Calbeck, William, Ph.D.**: (University of Wisconsin-Madison), Assistant Professor, Mathematics
- **Carvajal, Manuel, Ph.D.**: (University of Florida), Professor, Economics
- **Carrington, Jane, B.F.A.**: (The Juliard School), Assistant Professor, Theatre and Dance
- **Casines, Gisela, Ph.D.**: (University of Florida), Associate Professor, English and Associate Dean, College of Arts and Sciences
- **Castellanos, Isabel, Ph.D.**: (Georgetown University), Professor, Modern Languages
- **Castells, Ricardo, Ph.D.**: (Duke University), Assistant Professor, Modern Languages
- **Chen, Chun-Fan, Ph.D.**: (University of Michigan), Associate Professor, Biological Sciences
- **Chen, Ling, Ph.D.**: (American University), Assistant Professor, Statistics
- **Chiu, Janet, Ph.D.**: (Columbia University), Associate Professor, Sociology/Anthropology
- **Childers, Daniel, Ph.D.**: (Louisiana State University), Assistant Professor, Biological Sciences and Southeast Environmental Research Program
- **Chiu, Wan-Ung, Ph.D.**: (Michigan State University), Assistant Research Scientist, Biological Sciences
- **Chung, Bongkii, Ph.D.**: (Michigan State University), Associate Professor, Philosophy and Religious Studies
Professor, Biological Sciences and Southeast Environmental Research Program

Fulton, Kenneth, Ph.D. (Wayne State University), Associate Professor, Chemistry

Fourquean, James, Ph.D. (University of Virginia), Assistant Professor, Biological Sciences and Southeast Environmental Research Program

Gamarra, Eduardo, Ph.D. (University of Pittsburgh), Associate Professor and Acting Director of Latin American and Caribbean Center, Political Science

Garcla, Orlando, D.M.A. (University of Miami), Associate Professor, Music

Genereux, David P., Ph.D. (Massachusetts Institute of Technology), Assistant Professor, Geology and Drinking Water Research Center

Gerstman, Bernard, Ph.D. (Princeton University), Associate Professor, Physics

Gewirtz, Jacob, Ph.D. (State University of Iowa), Professor, Psychology

Ghal, Gauri, Ph.D. (Iowa State University), Associate Professor, Sociology/Anthropology

Girard, Chris, Ph.D. (University of Wisconsin), Assistant Professor, Sociology/Anthropology

Girden, Edward, Ph.D. (University of Illinois), Distinguished Professor Emeritus, Psychology

Gladwin, Hugh, Ph.D. (Stanford University), Associate Professor, Sociology/Anthropology

Goldberg, Walter, Ph.D. (University of Miami), Professor, Biological Sciences

Gomez, Mirta, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts

Gonzalez-Religosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology, and Dean, Undergraduate Studies

Goodspeed, Timothy, Ph.D. (University of Maryland), Assistant Professor, Economics

Gordon, Kenneth, Ph.D. (University of California, Davis), Associate Professor, Biological Sciences

Gorman, Susan, Ph.D. (University of Maryland), Instructor, Mathematics

Gotte'r, Malcolm, D.B.A. (Harvard University), Professor Emeritus, School of Computer Science

Gottlieb, Joel, Ph.D. (University of California at Riverside), Associate Professor, Political Science

Grenier, Guillermo, Ph.D. (University of New Mexico), Associate Professor, Sociology and Director, Center for Labor Research and Studies

Grenier, Robert, D.M.A. (University of Rochester), Assistant Professor, Music

Griffith, Ivelaw L., Ph.D. (City University of New York), Assistant Professor, Political Science

Gross, Michael, Ph.D. (Pennsylvania State University), Associate Professor, Geology

Gudorf, Christine, Ph.D. (Columbia University), Associate Professor, Philosophy and Religious Studies

Guerra-Villate, Yvonne, Ph.D. (Bryn Mawr College), Professor Emeritus, Modern Languages

Gulati, Sneh, Ph.D. (University of South Carolina), Assistant Professor, Statistics

Hall, James, Ph.D. (University of Utah), Professor, English

Hansen, Dean, Ph.D. (University of Washington), Assistant Professor, International Relations

Hardy, Kenneth, Ph.D. (Tulane University), Professor and Chairperson, Physics

Hargittai, Peter, M.F.A. (University of Massachusetts), Instructor, English

Harvey, Bruce, Ph.D. (Stanford University), Assistant Professor, English

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Herrera, Rene, Ph.D. (Fordham University), Associate Professor, Biological Sciences

Herrington, Arthur, Ph.D. (University of Florida), Professor, Chemistry and Dean, College of Arts and Sciences

Hickey-Vargas, Rosemary, Ph.D. (Massachusetts Institute of Technology) Associate Professor, Geology

Hill, Kevin, Ph.D. (University of Florida), Assistant Professor, Political Science

Hobbes, Heldi Hiliary, Ph.D. (University of Southern California), Associate Professor, Political Science

Hoffman, Gary, Ph.D. (Harvard University), Assistant Professor, Chemistry

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Hopkins, Tomelo, Ph.D. (Indiana University), Assistant Professor, English

Houghton, William, M.S. (University of Georgia), Research Scientist, Biological Sciences

Howell, Ina Parks, Ph.D. (University of South Florida), Lecturer, Statistics

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Isehberg, Allison, Ph.D. (University of Pennsylvania), Assistant Professor, History

Ito-Adler, James, Ph.D. (Harvard University), Assistant Professor, Sociology/Anthropology

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Jaffe, Rudolf, Ph.D. (Indiana University), Associate Professor, Chemistry and Environmental Studies

Jensen, John, Ph.D. (Harvard University), Professor, Modern Languages

Jhabvala, Farrokh, Ph.D. (Fletcher School of Law and Diplomacy), Professor, International Relations

Joens, Jeffrey, Ph.D. (Indiana University), Associate Professor, Chemistry

Johnson, Kenneth, Ph.D. (Brown University), Associate Professor, English

Johnson, Sherry, Ph.D. (University of Florida), Assistant Professor, History

Johnson-Cousin, Danielle, Ph.D. (University of Illinois), Associate Professor, Modern Languages

Jones, Ronald, Ph.D. (Oregon State University), Associate Professor, Biological Sciences and Director, Southeast Environmental Research Program

Jorge, Antonio, Ph.D. (Villanova University), Professor, Economics, International Relations, Political Science and Sociology/Anthropology
Kadima, Webe, Ph.D. (University of Alberta-Edmonton), Assistant Professor, Chemistry
Kafkoulis, George, Ph.D. (California Institute of Technology), Assistant Professor, Mathematics
Kahan, Alan, Ph.D. (University of Chicago), Assistant Professor, History
Kaminsky, Howard, Ph.D. (University of Chicago), Professor Emeritus, History
Karayalcin, Alp Can, Ph.D. (Columbia University), Assistant Professor, Economics
Katz, Nathan, Ph.D. (Temple University), Professor, Philosophy and Religious Studies
Kaufman, Fredrick, M.M. (Manhattan School of Music), Professor and Chairperson, Music
Keller, Leonard, Ph.D. (Yale University), Professor, Chemistry
Kelley, Bruce, Ph.D. (University of Massachusetts at Amherst), Assistant Professor, Economics
Kim, David, M.M. (Juilliard School), Artist-in-Residence, Diz Trifino, Music
Kincald, A. Douglas, Ph.D. (The Johns Hopkins University), Associate Professor, Sociology/Anthropology and Associate Director, Latin American and Caribbean Center
King, Clive, A.T.C. Ph.D. (University of London), Professor and Chairperson, Visual Arts
Knapp, Jeffrey, M.A. (University of Miami), Instructor, English
Koptur, Suzanne, Ph.D. (University of California), Associate Professor, Biological Sciences
Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy and Religious Studies
Kowert, Paul, Ph.D. (Cornell University), Assistant Professor, International Relations
Kravitz, David, Ph.D. (University of Illinois), Assistant Professor, Psychology
Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor, School of Computer Science
Kroloff, Lowell J., Ph.D. (University of Illinois), Associate Professor, Psychology
Kuhn, David N., Ph.D. (University of California at Davis), Associate Professor, Biological Sciences
Kurtines, William, Ph.D. (Johns Hopkins University), Professor, Psychology
Landrum, John, Ph.D. (University of Southern California), Associate Professor, Chemistry
Langer, Lilly, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology
Lavender, Abraham, Ph.D. (University of Maryland), Associate Professor, Sociology/Anthropology
Leckband, Mark, Ph.D. (Purdue University) Associate Professor, Mathematics
Lee, David, Ph.D. (Rutgers University), Professor, Biological Sciences
Leed, Eric, Ph.D. (University of Rochester), Professor, History
Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/Anthropology
Levitt, Mary, Ph.D. (Syracuse University), Associate Professor, Psychology
Lewis, Paul, M.A. (Princeton University), Instructor, Political Science
Lichtenstern, Alex, Ph.D. (University of Pennsylvania), Assistant Professor, History
Lifshitz, Felice, Ph.D. (Columbia University), Assistant Professor, History
Llussatos, Panagis, Ph.D. (University of Pennsylvania), Professor, Economics
Lipner, Kenneth, Ph.D. (Rutgers University), Assistant Professor, Economics
Logan, Kathleen, Ph.D. (Bryn Mawr College), Associate Professor, Sociology/Anthropology
Longoria, Jose, Ph.D. (University of Texas-Dallas), Professor, Geology
Lopez de la Vega, Ramon, Ph.D. (University of Miami), Associate Professor and Chairperson, Chemistry
Lowery, Shearon, Ph.D. (Washington State University), Associate Professor, Sociology/Anthropology
MacDonald, Charles, Ph.D. (University of Virginia), Professor, International Relations
MacFarlane, Andrew W., Ph.D. (Harvard University), Assistant Professor, Geology
Machonis, Peter A., Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages
Mackey, Wesley, Ph.D. (University of Manitoba), Lecturer, School of Computer Science
Maguire, William, M.S. (Illinois Institute of Technology), Professor, Visual Arts
Malgat, Anthony, Ph.D. (University of Florida), Professor, Sociology/Anthropology
Makemson, John, Ph.D. (Washington State University), Professor, Biological Sciences
Marciano, Jesus M., Ph.D. (West Virginia University), Assistant Professor, Physics
Martinez, Juan A., Ph.D. (Florida State University), Assistant Professor, Visual Arts
Mau, James A., Ph.D. (University of California of Los Angeles), Professor, Sociology/Anthropology and University Provost
Maurrasse, Florentin, Ph.D. (Columbia University), Professor, Geology
Maxwell, Oren, Ph.D. (State University of New York at Stony Brook), Associate Professor, Physics
McCormack, Kathleen, Ph.D. (University of Miami), Associate Professor, English
McCoy, Diana, M.A. (Case Western Reserve University), Instructor, Mathematics
McElfresh, Clair, D.M.A. (Case Western Reserve University), Professor, Music
McGrath, Campbell, M.F.A. (Columbia University), Assistant Professor, English
McIntire, Carmela Pinto, Ph.D. (Michigan State University), Associate Professor, English
McNeely-Strong, Linda, Ph.D. (Michigan State University), Assistant Professor, English
Mendoza, Ramon, Ph.D. (Frei Universität, Berlin), Professor, Modern Languages and Director of Humanities
Mesbahi, Mohaddis, Ph.D. (University of Miami), Assistant Professor, International Relations
Meziani, Abdelhamid, Ph.D. (Rutgers University), Associate Professor, Mathematics
Mil, Jie, Ph.D. (University of Pittsburgh), Assistant Professor, Statistics
Milani, Masoud, Ph.D. (University of Central Florida), Associate Professor, School of Computer Science
Milkauer, Asher, Ph.D. (University of Washington, Seattle), Associate Professor, English
Mintz, Stephan, Ph.D. (The Johns Hopkins University), Professor, Physics
Moncarz, Raul, Ph.D. (Florida State University), Professor and Chairperson, Economics
Montero-Demos, Marian, Ph.D. (Harvard University), Assistant Professor, Humanities and Modern Languages
Moore, Howard, Ph.D. (University of Arkansas), Professor, Chemistry
Morales-Martinez, Zaida C., M.S. (Pennsylvania State University), Instructor and Coordinator of Laboratories, Chemistry
Morgan, Dahlia, Diplomate of College Teaching (University of Florida), Lecturer, Visual Arts and Director of The Art Museum
Moran, Gary, Ph.D. (Katholieke University, Nijmegen, Netherlands), Professor, Psychology
Moreno, Dario, Ph.D. (University of Southern California), Associate Professor, Political Science
Morrow, Betty, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology
Morton, Luise H., Ph.D. (The Ohio State University), Assistant Professor, Philosophy and Religious Studies
Mueller Gathercole, Virginia, Ph.D. (University of Kansas), Professor, English and Director, Linguistics
Murison, Gerald, Ph.D. (The Johns Hopkins University), Professor, Biological Sciences
Nadel, Richard, M.S. (Northwestern University), Instructor, Mathematics
Nawalaka, Jainendra, Ph.D. (Case Western Reserve University), Professor, School of Computer Science
Neal, Leslie, M.A. (Florida State University), Assistant Professor, Theatre and Dance
Nelson, Brian, Ph.D. (University of California at Riverside), Associate Professor, Political Science
Nelson, Jon C., Ph.D. (Brandeis University), Assistant Professor, Music
Neumann, Roderick P., Ph.D. (University of California-Berkeley), Assistant Professor, International Relations
Newson, Adele S., Ph.D. (Michigan State University), Associate Professor, English
Norstog, Knut, Ph.D. (University of Michigan), Research Scientist, Biological Sciences
Northup, Lesley, Ph.D. (Catholic University), Assistant Professor, Philosophy and Religious Studies
O'Shea, Kevin E., Ph.D. (University of California), Assistant Professor, Chemistry
Oberbauer, Steven, Ph.D. (Duke University), Associate Professor, Biological Sciences
Okubo, Case, Ph.D. (University of Guelph), Associate Professor, Biological Sciences
Orij, Cyntll U., Ph.D. (University of Illinois-Chicago Circle), Assistant Professor, School of Computer Science
Osborne, William Jr., Ph.D. (Emory University), Associate Professor, Sociology/Anthropology
Owen, Claudia, Ph.D. (University of Washington), Lecturer, Geology
Parker, Janet Ph.D. (University of California-Berkeley), Associate Professor, Psychology and Director of Liberal Studies
Parker, John Ph.D. (University of California-Berkeley), Professor, Chemistry and Director of Environmental Studies
Pasztor, Ana, DRN (Darmstadt University, West Germany), Professor, School of Computer Science
Patrouch, Joseph F., Ph.D. (University of California), Assistant Professor, History
Peacock, Walter, Ph.D. (University of Georgia), Associate Professor, Sociology/Anthropology
Pelin, Alexandru, Ph.D. (University of Pennsylvania), Associate Professor, School of Computer Science
Perez, Lisandro, Ph.D. (University of Florida), Associate Professor, Sociology/Anthropology
 Pestaina, Norman, M.S. (Pennsylvania State University), Instructor, School of Computer Science
Peterson, Brian Ph.D. (University of Wisconsin), Associate Professor, History
Peterson, Joyce Ph.D. (University of Wisconsin), Associate Professor, History and Associate Dean, College of Arts and Sciences
Pilkington, Anne B., Ph.D. (University of Notre Dame), Assistant Professor, Mathematics
Pliske, Thomas, Ph.D. (Cornell University), Lecturer, Biological Sciences and Assistant Director of Environmental Studies
Prabhakaran, Nagarajan, Ph.D. (University of Queensland), Associate Professor, School of Computer Science
Prugh, Elizabeth, Ph.D. (The American University), Assistant Professor, International Relations
Pyron, Darden, Ph.D. (University of Virginia), Professor, History
Quackenbush, L. Scott, Ph.D. (Florida State University), Associate Professor and Chairperson, Biological Sciences
Quirke, Martin, Ph.D. (University of Liverpool), Professor, Chemistry
Rae, Nicol, D.Phil. (Oxford University), Associate Professor, Political Science
Ramsamujh, Taije, Ph.D. (California Institute of Technology), Associate Professor, Mathematics
Rappaport, Erika, Ph.D. (Rutgers University) Assistant Professor, History
Ratner, Robert, M.A. (University of Miami), Instructor, English
Relsert, Laura, M.S. (University of Florida), Instructor, Statistics
Reno, William S.K., Ph.D. (University of Wisconsin), Assistant Professor, Political Science
Richards, Jennifer, Ph.D. (University of California, Berkeley), Associate Professor, Biological Sciences
Richardson, Laura, Ph.D. (University of Oregon), Assistant Professor, Biological Sciences and Drinking Water Research Center
Rishie, Naphatil, Ph.D. (Tel Aviv University, Israel), Professor, School of Computer Science
Ritter, David, Ph.D. (Louisiana State University), Associate Professor, Mathematics
Roca, Ana, D.A. (University of Miami), Associate Professor, Modern Languages
Rochelson, Merle-Jane, Ph.D. (University of Chicago), Associate Professor, English
Rock, Howard, Ph.D. (New York University), Professor, History
Rogerson, Kenneth, Ph.D. (University of California at San Diego), Associate Professor, Philosophy and Religious Studies
Rohm, Joseph, Ph.D. (Florida State University), Associate Professor, Music
Rosenberg, Mark, Ph.D. (University of Pittsburgh), Professor, Political Science, and Acting Dean, College of Urban and Public Affairs
Rosenthal, Michael, M.S. (University of Miami), Instructor, Mathematics
Rotton, James, Ph.D. (Purdue University), Associate Professor, Psychology
Shriner, Brian, M.A. (University of Miami), Instructor, Theatre and Dance, and Debate Coach
Shore, Minna, Ph.D. (Leningrad Technical Institute), Instructor, Mathematics
Silverman, Wendy, Ph.D. (Case Western Reserve University), Professor, Psychology
Silverstein, Ronn, M.A. (Sir George Williams University, Montreal), Instructor, English
Skow, Marilyn, M.Ph. (Columbia University), Associate Professor, Theatre and Dance
Silkier, James, Ph.D. (University of Notre Dame), Associate Professor, Mathematics
Sprechman, Eilen, Ph.D. (University of Miami), Lecturer, English
Stack, John, Jr., Ph.D. (University of Denver), Professor, Political Science
Standford, 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, Andree, M.A. (University of Miami), Instructor, Modern Languages
Stepick, Alex, Ph.D. (University of California at Irvine), Associate Professor, Sociology/Anthropology
Stiehm, Judith, Ph.D. (Columbia University), Professor, Political Science
Stoddard, Philip D., Ph.D. (University of Washington), Assistant Professor, Biological Sciences
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), Assistant Professor, English
Sweet, William, Ph.D. (University of Maryland), Assistant Professor, Mathematics
Szuchman, Mark, Ph.D. (University of Texas), Professor and Chairperson, History
Tao, Nongjian, Ph.D. (Arizona State University), Assistant Professor, Physics
Taylor, Graham, Ph.D. (University of Maryland), 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
Trextler, 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
Vagramian-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), Assistant Professor, Mathematics
Vilvesvaran, Chockalingam, Ph.D. (University of Iowa), Assistant Professor, Psychology
Volcanek, Mary, Ph.D. (Texas Tech University), Professor and Chairperson, Political Science
Wallace, Dorothy Patricia, Ph.D. (Cornell University), Assistant Professor, English
Waltz, Susan, Ph.D. (University of Denver), Associate Professor, International Relations
Wang, Xuwen, Ph.D. (Iowa State University), Assistant Professor, Physics
Warren, Christopher, D.A. (Lehigh University), Associate Professor, Political Science
Warren, Paul, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Philosophy and Religious Studies
Watson, Donald, Ph.D. (University of Virginia), Professor and Chairperson, English
Watson-Espener, Malada, Ph.D. (University of Florida), Professor, Modern Languages
Watts, Barbara, Ph.D. (University of Virginia), Assistant Professor, Visual Arts
Waugh, Butler, Ph.D. (Indiana University), Professor, English
Weiss, Mark, Ph.D. (Princeton), Associate Professor, School of Computer Science
Weitz, Barbara, M.S. (Florida International University), Instructor, English
Weich, Marcelle, Ph.D. (University of Michigan), Professor, Modern Languages
West, Lois, Ph.D. (University of California at 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), Assistant Professor, English
Williams, Willie, Ph.D. (Michigan State University), Associate Professor, Mathematics
Wilmers, 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
Wooten, Ronnie, Ph.D. (Michigan State University), Assistant Professor, Music
Yamas, Mehmet, Ph.D. (University of Kansas), Associate Professor, English
Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages
Zahedi-Jasbi, Hassan, Ph.D. (University of California at Riverside), Associate Professor, Statistics
Zalkikar, Jyoti N., Ph.D. (University of California at Santa Barbara), Associate Professor, Statistics

Zhu, Yifu, Ph.D. (University of Virginia), Assistant Professor, Physics
Zongyi, U, Ph.D. (Massachusetts Institute of Technology), Assistant Professor, Mathematics
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.

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 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 application 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(s) 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 966, 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.
   (c) Complete a minimum of 30 semester hours of graduate level coursework for the Master of Accounting or the Master of Science in Taxation programs.
4. Earn a minimum average of 'B' (3.0) in all approved courses in the student's program of study.

No courses in which a grade below "C" is earned may be counted toward the M.Acc., MBA, MIB, MSF, M.S. in MIS, 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.

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 management generalists who have a breadth of knowledge and understanding of business and who are 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-waivable core courses, and 12 hours of approved electives which may be taken towards a concentration in one subject area.

Seven Pre-Core Courses (21)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6026</td>
<td>Accounting for Managers</td>
</tr>
<tr>
<td>ECP 6705</td>
<td>Managerial Economics I</td>
</tr>
<tr>
<td>ECP 6715</td>
<td>Macroeconomic Forecasting for</td>
</tr>
<tr>
<td></td>
<td>Management</td>
</tr>
<tr>
<td>GEB 6445</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>MAN 6569</td>
<td>Managerial Decision-Making</td>
</tr>
<tr>
<td>MAR 6805</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Quantitative Methods in Management</td>
</tr>
</tbody>
</table>

Nine Core Courses (28)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6175</td>
<td>Financial Reporting and Analysis</td>
</tr>
<tr>
<td>FIN 6428</td>
<td>Financial Management</td>
</tr>
<tr>
<td>FIN 6456</td>
<td>Quantitative Methods in Financial Analysis</td>
</tr>
<tr>
<td>MAN 6204</td>
<td>Organization and Management Theory</td>
</tr>
<tr>
<td>MAN 6245</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>MAN 6501</td>
<td>Operations Management</td>
</tr>
<tr>
<td>MAN 6830</td>
<td>Organization Information Systems</td>
</tr>
<tr>
<td>MAN 6830L</td>
<td>Organization Information Systems Lab</td>
</tr>
<tr>
<td>MAN 6726</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>MAR 6816</td>
<td>Strategic Marketing Management</td>
</tr>
</tbody>
</table>

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                  Concentration
                          Accounting                Accounting, Taxation
                          Decision Sciences          Management Information Systems
                          and Information Systems    Systems
                          Finance                   Finance
                          Management and            Organizational Behavior
                          International Business    Human Resources Management
                          Marketing and             International Business
                          Business Environment      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, 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. Schelner, Professor and Director
Roll Auster, Professor
Delano H. Berry, Assistant Professor
Jack L. Carter, Assistant Professor
Lucia S. Chang, Professor Emeritus
Yong S. Cho, Assistant Professor
Lewis F. Davidson, Professor
Manuel Dieguez, Lecturer
Morlimer Dittenhofer, Professor
Donald W. Fair, Instructor and Associate Dean
Georgina Garcia, Lecturer
Milin H. Guo, Assistant Professor
Rosalie C. Hallbauer, Associate Professor
Harvey S. Hendrickson, Professor
Kevin Kemerer, Assistant Professor
David Lavin, Assistant Professor
Myron S. Lubell, Associate Professor
Kenneth S. Most, Professor
Leandro S. Nunez, Lecturer
Robert B. Oliva, Associate Professor
Felix Pomaranz, Professor, Associate Director, and Director of the Center for Accounting, Auditing, and Tax Studies
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Bernadette Rut, Assistant Professor
Robert W. Rutledge, Assistant Professor
John T. Sennett, Professor
Barbara T. Uliss, Assistant Professor
Richard H. Wiskerman, Jr., Lecturer
John Wieden, Lecturer
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 (31 semester hours) from the following:

- ACG 6105 Accelerated Financial Accounting I 4
- ACG 6115 Accelerated Financial Accounting II 4
- ACG 6655 Auditing and Accounting Systems 4
- ACG 6345 Management Accounting and Control 3
- BUL 6124 Survey of Business Law 3
- TAX 6005 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 the School of Accounting Graduate Advisor. All graduate students are pre-registered 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 government accounting and auditing. These are designed to prepare the students for the careers described below:
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, government accounting, or corporate/management accounting.

**Master of Science in Taxation**

The M.S.T. program is designed to prepare students for 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 6005 (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 by the Florida State Board of Accountancy as meeting the requirements for the additional credit hours 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.

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**Decision Sciences and Information Systems**

**Daniel Robey**, Professor and Chairperson

**Dinesh Batra**, Assistant Professor

Joyce J. Etam, Professor and James L. Knight Eminent Scholar

**Sushil K. Gupta**, Professor and Vice Provost

**Chrisos Koulamas**, Associate Professor

**Jerzy Kyparlis**, Professor

**Tomislav Mandakovic**, Professor

**Krishnamurty Muralidhar**, Associate Professor

**Rajiv Sabherwal**, Assistant Professor

**Radhika Santhanam**, Assistant Professor

**Maung K. Sein**, Assistant Professor

**Larry A. Smith**, Associate Professor

**Steve H. Zanakis**, Professor

**Peter J. Zegar**, Lecturer

The Department of Decision Sciences and Information Systems offers a concentration in the Master of Business Administration program.
Finance

Arun Prakash, Professor and Chairperson
Gary Anderson, Associate Professor
Joel Barber, Assistant Professor
Robert Bear, Professor
William R. Beaton, Professor
Gerald O. Bierwag, Professor, Ryder System
Chun-Hao Chang, Assistant Professor
Robert T. Daigler, Associate Professor
Krishnan Dandapani, Associate Professor
Shahid Hamid, Assistant Professor
James Keys, Instructor
Simon Pak, Associate Professor
All M. Parkizgar, Professor and Director, MBA Program
Emmanuel Roussakis, Professor and Director, Certificate Programs
George B. Simmons, Distinguished Service Professor and Associate Dean
Michael Sullivan, Assistant Professor
William Welch, Associate Professor
John S. Zdanowicz, Professor and Director, Center for Banking and Financial Institutions

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, legal environment in business, economics, management and policy, operations management, managerial decision making, organizational information systems, marketing, and organizational theory. If a student is deficient in any of these areas, the student will be required to fulfill the requirement by taking the appropriate courses. As part of the common body for Finance majors, students will be required to take FIN 6428 (Financial Management); this requirement may, but not necessarily, be waived if the student has satisfactorily completed two undergraduate Corporate Finance courses.

Group 2 - Finance Core Courses

All MSF-Finance students are required to take the following courses:

- FIN 6246 Financial Markets and Institutions
- FIN 6456 Quantitative Methods in Financial Analysis
- FIN 6516 Security Analysis
- FIN 6636 International Finance
- FIN 6804 Theory of Finance

Group 3 - Finance Electives

Nine hours of approved Finance electives, other than those mentioned in Group 1 and Group 2, must be completed.

Group 4 - Four Related Electives

Students will be required to select four 6000-level courses from concentrations in business, economics, computer science, and other related areas. Students will be permitted, but not required, to concentrate in one area. These electives must be chosen with prior approval of the MSF program advisor.

The 36 semester hours requirement may be reduced to 30 for students who possess an accredited Master’s Degree in Business Administration (this would result in the reduction of two related electives). Up to two graduate courses may be transferred in from another accredited school, even if no advanced degree was obtained.

Management and International Business

Gary Dessler, Professor and Chairperson
Constance S. Bates, Associate Professor
Herman Dorsett, Associate Professor
Dana L. Farrow, Professor and Associate Dean
Earnest Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Richard M. Hodgetts, Professor
William T. Jerome, Distinguished University Professor
Willibeth Jordan, Instructor
K. Galen Kroec, Associate Professor and Director, Doctoral Studies
Jan B. Luytjes, Professor
Philip H. Mann, Lecturer
Karl O. Magnusen, Associate Professor
Modesto A. Maldique, Professor and University President
Sherry Moss, Assistant Professor
Eleanor Polster, Instructor
Antonio F. Pradas, Lecturer
Kannan Ramaswamy, Assistant Professor
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Ronnie Silverblatt, Associate Professor
George Sutija, Associate Professor
William M. Taggart, Professor
Anisya S. Thomas, Assistant Professor
Enzo Valenzi, Professor
Mary Ann Von Glown, 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 also would have to meet these pre-core requirements. (See also ‘transfer credit’ earlier in this catalog).

Pre-Core Courses
MAN 6245 Organizational Behavior
ACG 6026 Accounting for Managers
MAR 6805 Marketing Management
QMB 6603 Quantitative Methods in Management
MAN 6830 Organization Information Systems
MAN 6830L Organization Information Systems Lab
ECP 6705 Managerial Economics
MAN 6569 Managerial Decision-Making
FIN 6428 Financial Management
MAN 6608 International Business

Core Courses
ACG 6255 International Accounting
BUL 6850 International Commercial Law
FIN 6636 International Finance
MAN 6603 Problems in Comparative Management
MAN 6635 International Business Policy
MAR 6158 International Marketing
MAN 6416 Corporate Negotiations

In addition to the core, MIB candidates are required to take six electives. 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 concentrat-

International Banking Concentration
FIN 6315 Commercial Banking
FIN 6325 Current Issues in Commercial Banking
FIN 6346 Credit Analysis
FIN 6625 International Bank Management
FIN 6626 International Bank Lending Policies and Practices

Management of Science, Technology, and Innovation concentration (special approval of Department required):
MAN 6679 Master’s Project in International Business
MAN 6805 Managing for Total Quality
ISM 6045 Current Economic and Social Implications of Information Systems
ISM 6305 Information Systems Planning
MAN 6675 Special Topics in International Business

Other concentrations are possible. Please see the advisor.

Suggested Electives
FIN 6625 International Bank Management
FIN 6626 International Bank Lending Policies and Practices
MAN 6615 International Labor-Management Relations
MAN 6675 Special Topics in International Business
MAN 6606 International Business Environment
REE 6935 Seminar in International Real Estate
ECO 5709 The World Economy
MAN 6601 International Management
MAN 6617 Managing Global Production and Technology
MAN 6679 Master’s Project in International Business
MAN 6805 Managing for Total Quality

Suggested sequence of courses to be taken assuming full-time status:

Graduate with Non-Business Degree

First Year
Fall
ACG 6026 MAN 6245 FIN 6428
MAN 6608 MAR 6805 MAR 6158
ECP 6705 MAN 6569 ECP 6705
MAN 6830 QMB 6603
MAN 6830L

Second Year
Fall
ACG 6255 MAN 6416 Elective
FIN 6636 MAN 6635 Elective
BUL 6850 MAN 6603
MAN 6608

Graduate with Business Degree

First Year
Fall
ACG 6255 MAN 6603 MAN 6416 Elective
FIN 6636 MAN 6635 Elective

Second Year
Fall
BUL 6850 Elective Elective

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.
Marketing and Business Environment

Barnett A. Greenberg, Professor and Chairperson
Mary Jane Burns, Assistant Professor
Deborah Cohen, Assistant Professor
Lucette Comer, Assistant Professor
Dennis J. Gayle, Assistant Professor
Jonathan N. Goodrich, Associate Professor
Robert Hogner, Associate Professor
Cari Kranendonk, Instructor
Paul Minlard, Professor
J.A.F. Nicholls, Associate Professor
Marta Ortiz, Associate Professor
Karen Paul, Professor
Lynda Raheem, Instructor
Sydney Roslow, Professor Emeritus
Bruce Seaton, Associate Professor
Philipp Shepherd, Associate Professor
Kimberly Taylor, Assistant Professor
John Tsalkis, 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 qualify for the CPA in Florida or any other state requiring a fifth 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

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 De-
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 purpose 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 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 Applications

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 to 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:

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 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 6816 Strategic Marketing Management 3
MAR 6646 Advanced Marketing Research 3
MAR 6506 Advanced Consumer Behavior 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 c.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; REE-Real Estate; RMI-Risk Management and Insurance; TAX-Taxation.

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 in 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, operations, 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 governmental entities 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 control 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 program 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.

ACG 6105 Accelerated Financial Accounting I (AC) (4). Underlying concepts and ethical, regulatory and business environment of financial reporting; emphasis on measurement, analysis and interpretation of income, cash flows and financial position. Prerequisites: 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 6115 Accelerated Financial Accounting II (AC) (4). Underlying concepts and ethical, regulatory and business environment of financial reporting; emphasis on measurement, analysis and interpretation of financial position, 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.

ACG 6245 Accounting and Auditing Compliance Issues (AC) (3). Corporate, government and public accounting compliance with response to institutional and political regulation; attention to compliance in specialized industries such as health care, transportation, financial institutions, real estate and construction. 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.

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 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.

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.

ACG 6356 Seminar in Managerial Accounting II (AC) (3). A study of the controller's role in corporate organizations; an appraisal of the controller's role in internal accounting, cost accounting, 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.

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.

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.

ACG 6455 Accounting Information Systems Technology, Control and Audit I (AC) (3). Accounting applications of information 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.

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.

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.

ACG 6515 Advanced Governmental Accounting (AC) (3). Treats the development 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.

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 6115 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those
with a undergraduate accounting degrees.

ACG 6657 The Environment of Accounting (AC) (3). Economics and scope of accounting practice in context of self-regulated profession, public policy constraints, complex business structures and innovative transactions, and rapidly changing information technology with extensive reference to business periodicals and on-line databases. Prerequisites ACG 6135 and admission to a graduate program in the School of Accounting or permission of the School Director.

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.

ACG 6676 Advanced Internal Auditing (AC) (3). Special topics in internal auditing such as forensic 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.

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. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6678 Current Issues in Auditing (AC) (3). Professional and technical aspects of auditing practice; introduction to SEC; ethics and legal responsibilities; emergence of non-public practice; public expectations and professional reality; the impact of technology; international auditing; recent auditing developments. Prerequisite: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6835 Behavioral Accounting (AC) (3). Study of the effect of the process and products of accounting and of the relation of changes in the process and products to individual and group behavior; consideration of ways in which accounting can aid individuals and organizations to attain their goals. Prerequisites: ACG 4111 and 4341 or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

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 Doctoral advisor in Accounting.


ACG 7896 Accounting Research Methods on Capital Markets. (AC) (3). An advanced accounting graduate course in current time series methods used to analyze capital business 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 found前沿 issues of accounting. Prerequisite: Permission of Doctoral advisor in Accounting.

BAN 5652 Savings and Loan Management (FI) (3). Financial management of savings and loan associations and mortgage lenders, supply and demand of mortgage funds; state and federal regulatory bodies' legal and institutional characteristics related to mortgage markets. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

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 on commerce workings of administrative law; various aspects of employment legislation and other areas of legal environment of business. Prerequisite: Permission of Accounting certificate program advisor.

BUL 6651 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisite: Admission to 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, labor, 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.

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.

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.

ECP 6705 Managerial Economics (EC) (3). Basic microeconomic and macroeconomic 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.

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.

FIN 5418 Working Capital Management (FI) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 3414 or FIN 6456.

FIN 5473 Small Business Finance (FI) (3). The financial markets, financial instruments, and management policies and techniques available to potential and existing entrepreneurs and owner/managers. Emphasis will be upon analysis of areas of opportunity for small business: analysis of financing alternatives; and analysis of
proficiency. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

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 6516 or equivalent.

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.

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.

FIN 6636 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.

FIN 6716 Financial Management of Governmental Organizations (Fl) (3). The budgetary process of identifying, justifying, and allocating funds. The securing of funds in the market and the efficient allocation of funds.

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 mor-
FIN 6906 Independent Study in Finance (Fl) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 6915 Master's Project in Finance (Fl) (1-6). An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. The course should be taken during the last half of the student's graduate program. Consent of faculty tutor and Department Chairperson required.

FIN 6936 Special Topics In Finance (Fl) (1-3). For groups of students who desire intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

FIN 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.

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.

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.

FIN 7809 Financial Theory II (Fl) (3). This course focuses on the theory of financial decision-making under uncertainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of instructor.

FIN 810 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.

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.

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.

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.

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.

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.

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.

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.

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 intermedeiation. Prerequisite: ECO 7206 or Permission of instructor.

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.


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.

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.

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.

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.

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.

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.

ISM 6205 Database Management (DS) (3). The course addresses techniques for structuring and managing data in organizations. Discusses data concepts, data modeling, database requirements definition, conceptual, logical, and physical design, data administration, and distributed database management. Prerequisite: MAN 6830.

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.

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.

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.

ISM 6455 Microcomputer Applications In Business (DS) (3). Fundamentals and comparison of contemporary microcomputers. Extensive usage of available software for making business decisions. Emphasis on small business applications and cases. Student projects. Prerequisites: Computer programming proficiency, MAN 4504 and CGS 3300 or MAN 6501 and 6830.

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, computers, 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.

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.

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.

ISM 7152 Seminar on System Implementation (DS) (3). Theory and research on the implementation of information systems in organizational settings. Theories of technological innovation and political action applied in the design and development of systems within organizations.

ISM 7306 Seminar on Managing Information Resources (DS) (3). Theory and research on the managerial viewpoint on information processing functions within an organization. Relationship of information management to strategic planning and other business functions.

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.

ISM 7406 Decision Support Systems (DS) (3). Theory and research on the design of decision aids. Integrating models and data with a technological delivery system that supports unstructured problem-solving by executive.

MAN 5123 Human Interaction I: Personal Growth Laboratory (MA) (3). Experience designed to increase awareness of personal social impact, and sensitivity to the feelings of others; to improve interpersonal communication, and increase understanding of the change-learning process. Study and analysis of class-group participation as well as other functional social groups.

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.

MAN 5930 Seminar in Personnel Management (MA) (3). Overview and examination of the various aspects of the personnel management function.

MAN 6051 Organization and Management Process (MA) (3). Analysis of organizations including the evolution of management thought and the effects of technology and the environment on the organization. Emphasis will be on such concepts as division of work, delegation and decentralization, leadership, motivation, work satisfaction, as well as planning, organizing, directing, and controlling.

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.

MAN 6124 Human Interaction II: Organizational Consultation (MA) (3). Theories and approaches to organization development and change, with a particular focus on public schools and organizations. Supervised laboratory on systematic con-
sultation and action skills, including schools and organizations. Supervised laboratory on systematic consultation and action skills, including method of assessment (survey feedback, milking, confrontation meetings, systems analysis); agenda-setting, feedback; coaching; third-party consultation for conflict management; and team training. Prerequisite: MAN 5123.

MAN 6145 Decision Styles and Managerial Effectiveness (MA) (3). An experiential, theoretical, and applied investigation of personal decision styles and their relation to management and human effectiveness. Focus upon analytic and intuitive styles of thinking.

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.

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.

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.

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.

MAN 6311 Advanced Personnel Management (MA) (3). Attention is focused on the theory and practice of modern personnel management, as related to other management functions. Topics include selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resources management and development at various organizational levels.


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.


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.

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.

MAN 6416 Corporate Negotiation (MA) (3). An examination and analysis of corporate negotiation strategies in such areas as collective bargaining, mergers, joint ventures, and with government regulation agencies. The legal environment affecting the negotiated process will be closely scrutinized, as well as internal and external political processes. Prerequisites: ACG 6026, MAN 6245, FIN 6428, MAR 6805.

MAN 6501 Operations Management (DS) (3). This course covers analysis, design, and operations of organizational systems. The systems approach is provided to use 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.

MAN 660103 Problems in Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at understanding the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

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 sociological forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6608 International Business (MA) (3). International variables as they affect managers. Theoretical constructs and their application to automation and its impact on organizations. Integrated operational-simulation approach. Group and individual projects.

MAN 6659 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.

MAN 6659 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.

MAN 6685 Productivity Management Seminar (DS) (3). Analysis of productivity in manufacturing and service organizations and methodology for productivity improvement. Extensive cases, projects, tours, and guest speakers. Prerequisite: Graduate students (or CBA certificate students).

MAN 6685 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.

MAN 6685 Problems in Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at understanding the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

MAN 6686 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 sociological forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6688 International Business (MA) (3). International variables as they affect managers. Theoretical constructs and their application to automation and its impact on organizations. Integrated operational-simulation approach. Group and individual projects.
specific problems in international business.

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.

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.

MAN 6635 International Business Policy (MA) (3). An analysis of corporate strategies in a rapidly developing and changing world environment. Emphasis will be placed on forecasting, planning, and contingency strategies. The course is taught by case method and stresses the environmental and institutional constraints on decision making within the organization. Corporate executives are invited to attend whenever possible. Prerequisites: ACG 6026, MAN 6245, FIN 6428, and MAR 6805 and MAN 6603 or MAN 6608.

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.

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.

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 skill in broad areas of rational decision-making in an administrative context of uncertainty. Should be taken in the last semester of master's program.

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.

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 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 6905 Independent Study in Management (MA) (1-6). Individual conferences, supervised readings, reports on personal investigations. Consent of faculty sponsor, Department Chairperson, and Dean required. P/F only.

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.

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.

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.

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.

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.

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.

MAN 7148L Intuition In Management Lab (1). Exercises and practices for developing intuition. Assessment and measurement of intuitive styles. Audio and visual presentations on various topics in intuition. Prerequisite: Permission of instructor. Corequisite: MAN 7148.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

MAN 7640 International Business Research Methods (MA) (3). Overview of IB academic research, emphasizing topics, literature, methods, information sources, applications, and research problems and journal characteristics. Prerequisites: Admission to business Doctoral program and completion of doctoral core.

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.

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.

MAN 7910 Advanced Management Research (MA) (3). Covers applications of analytical methods in contemporary management research. Emphasis is given to complex research design strategies including multivariate techniques and multidimensional scaling.

MAR 6075 Current Issues in Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing. Prerequisite: MAR 6816.

MAR 6156 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 6816 or permission of instructor.

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 6816.

MAR 6406 Advanced Sales Management (ME) (3). Analysis of personal selling's role in marketing strategy using detailed case studies on field sales management, working with channel organization, and planning and controlling sales operations.

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 6816.

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 6816 or permission of instructor.

MAR 6707 Current Issues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6075.

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.

MAR 6816 Advanced 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 6806 or equivalent.

MAR 6915 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; re-
ports 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. Prerequisite: 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 7647 Seminar in Marketing Management (ME) (3). Analytical approaches to strategical 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.

QMB 6805 Deterministic Models for Management Analysis (DS) (3). Applications of deterministic models such as linear and nonlinear programming, network analysis (PERT), dynamic programming, and branch and bound algorithms to managerial problems of allocation, planning, scheduling, investment, and control.

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 6659 and a Computer Programming Language.

QMB 6855 Stochastic Models for Management Analysis (DS) (3). Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems.

QMB 6875 Stochastic Models for Project Management (DS) (3). Review of deterministic models and principles. Introduction to PERT, 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.

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.

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.

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.

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.

REE 5115 Income Property Appraisal (FI) (3). Valuation and appraisal framework applied to income properties; capitalization, rates and techniques, discounting and compound interest; mortgage-equit analysis. Includes Ellwood analysis; the role of computers; valuation as a guide to business decisions.

REE 6020 Industrial Real Estate I (FI) (3). General overview of industrial real estate, focusing on types of activities; locational requirements; financing techniques; brokerage; government influence; current trends; technological change; characteristics of industrial buildings.

REE 6021 Industrial Real Estate II (FI) (3). Introduction to investment and valuation problems in industrial real estate. Topics include: taxation and investment analysis; discounted cash flow techniques; appraisal framework applied to income properties. A computer will be utilized in approaching the above problems.

REE 6105 Appraisal of Real Estate (FI) (3). Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decl-
sions. Prerequisite: REE 4303 or permission of instructor.

REE 6195 Seminar In Real Estate Valuation Theory and Practice (Fi) (3). A study of the process of property valuation, utilizing cost, market and income approaches. The role of computers and mass appraisal techniques will also be examined. Prerequisites: Graduate standing and permission of instructor.

REE 6207 Real Estate Financial Analysis (Fi) (3). Financial analysis and structuring of real estate projects; traditional and creative concepts for construction and permanent financing; portfolio decisions; government programs; money and mortgage markets. Prerequisite: REE 6306 or permission of instructor.

REE 6295 Seminar In Real Estate Finance (Fi) (3). A study of financial institutions, their methods; and interregional flows of funds in mortgage markets. Further emphasis is placed on national economic policies affecting mortgage markets. Prerequisites: Graduate standing and permission of instructor.

REE 6305 Real Estate Investment (Fi) (3). Advanced concepts of acquisition, ownership, and disposition of investment property; taxation; risk and return; cash flow forecasting; financial structuring process; case analysis; strategy formulation. Prerequisite: REE 6306 or permission of instructor.

REE 6306 Real Property Analysis (Fi) (3). A study of the decision making processes of real property asset management. Private and public policy issues regarding the housing process and the regulation of the real property business environment. Legal considerations of real property ownership, financing and transfer of interests. Prerequisite: Consent of instructor.

REE 6395 Seminar In Real Estate Investment and Taxation (Fi) (3). The techniques of real estate investment analysis, utilizing present value and cash flow approaches. The impact of Federal taxation on real estate investment decisions. Prerequisites: Graduate standing and permission of instructor.

REE 6435 Legal Environment of Real Estate (Fi) (3). Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; titles; conveyances; landlord and tenant; restrictions; zoning; eminent domain; does not cover Florida Real Estate License Law or licensing regulations of Florida Real Estate Commission; not a license prep course. Prerequisite: REE 4043 or REE 6306 or permission of instructor.

REE 6505 Real Estate Management (Fi) (3). Advanced theories and techniques of professional management of real estate: developing a management plan; merchandising space; market analysis; maintaining; operating budgets; fiduciary relationships. Prerequisite: REE 6306 or permission of instructor.

REE 6715 Regional Real Estate Development (Fi) (3). Operation of real estate markets in land allocation; land use decision making in real estate; real estate feasibility studies, applied to specific real estate projects. Prerequisite: REE 6306 or permission of instructor.

REE 6734 Real Estate Land Development (Fi) (3). Real estate development: acquisition of raw land; zoning; subdivision into sites; provision of utilities and services; financing; merchandising of improved sites. Emphasis on design and development of residential communities.

REE 6736 Real Estate Land Planning (Fi) (3). Advanced theories of city growth and structure; operations of the real estate market in land allocation; current practices in real estate land planning. Prerequisite: REE 6306 or permission of instructor.

REE 6755 Real Estate and Regional Development Policy (Fi) (3). An advanced capstone course integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. Prerequisite: REE 6306 or permission of instructor.

REE 6795 Seminar In Urban Housing Policy Problems (Fi) (3). Examination of national housing policies and their formulation; the role of the public and private sectors in regard to housing problems; effectiveness of various housing policies. Prerequisites: Graduate standing and permission of instructor.

REE 6816 Real Estate Marketing (Fi) (3). Techniques of selecting, training, and compensating sales personnel; obtaining and controlling listings; creative selling techniques; promotion, advertising, and public relations; growth; ethics. Prerequisite: REE 6306 or permission of instructor.

REE 6825 Industrial Brokerage (Fi) (3). Defines distinction between industrial brokerage and general real estate brokerage; role and functions of the industrial broker; industrial brokerage practice. Includes negotiating and leasing; regulations and ethics.

REE 6906 Independent Study In Real Estate (Fi) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

REE 6932 Special Topics In Real Estate (Fi) (1-5). For groups of students desiring intensive studies of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Department Chairperson required.

REE 6935 Seminar In International Real Estate (Fi, MA) (3). Current trends and issues affecting real estate on an international level. Topics include: the multinational corporation and its location decisions; foreign taxation; international trade and exchange rates.

REE 6946 Industry Project (Fi) (3). Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by real estate faculty. Prerequisite: Permission of advisor.


RMI 5297 Property and Liability Insurance (Fi) (3). Comparative study of the structures and forms of the major property and liability insurance, policies, personal and commercial lines. Analytic determination of the choice of the optimal mode of protection or coverage. Major functions of insurers and regulation.

RMI 6008 Graduate Survey of Insurance (Fi) (1-6). Graduate examination of current problems in insurance, including theory, uses of insurance in business organizations; property and liability insurance; life and health insurance.

RMI 6178 Mathematics of Life Insurance (Fi) (3). Present Values and Future Values of Lump Sums and Annuities. Mortality Tables Single Premiums, Annual Premiums and Net Level Premiums. Reserve, Nonforfeiture Values and Dividends. Prerequisite: MAC 3233 or equivalent.
RMI 6912 Independent Study In Insurance (Fi) (1-6). Supervised study of insurance or insurance related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of faculty supervisor, Department Chairperson, and Dean required.

RMI 6936 Special Topics In Insurance (Fi) (1-6). Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the Curriculum. Consent of faculty supervisor and Department Chairperson required.

TAX 5066 Tax Research and Reporting (AC) (3). A study of tax planning aspects of a variety of business and other transactions. Emphasis will be placed upon perceiving tax issues and conducting research to resolve them. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5106 Corporate Taxation (AC) (3). Tax implication of corporate formations, distributions, redemptions, liquidations, divisions, reorganizations, collapsibles, attributes, consolidations, S-Corp, AET and PHC's. Prerequisites: Permission of Accounting certificate program advisor.

TAX 5406 Taxation of Estates and Trusts (AC) (3). Study of income tax aspects of decedents, followed by income taxation of estates and trusts (subchapter J). Special emphasis on throw-back rules, grantor trusts, charitable remainder trusts, and foreign trusts. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5506 International Dimensions of Taxation (AC) (3). Tax provisions affecting foreign corporations and non-resident aliens, as well as those tax provisions affecting U.S. person's business and investment activities outside the U.S. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5725 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 and permission of accounting certificate program advisor.

TAX 5875 Seminar In Taxation (AC) (3). An in-depth study of recent legislative, administrative, and judicial developments in taxation. Prerequisites: TAX 4001 or equivalent, and permission of Accounting certificate program advisor.

TAX 5904 Independent Study In Taxation (AC) (3). Individual conferences, supervised readings, reports on personal investigations. Prerequisite: Written permission of 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 6105 Taxation of Corporations and Partnerships (AC) (3). An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: TAX 4001 or equivalent with a grade of "C" or higher and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6106 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.

TAX 6115 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.

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.

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.

TAX 6405 Estate and Gift Taxation (AC) (3). The study of the federal estate tax 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.

TAX 6415 Fiduciary Accounting and Taxation (AC) (3). The study of the income taxation of estates, trust, and the beneficiaries thereof, including the determination of distributable net income, and throwback rules. The grantor trust and income in respect of a decedent is emphasized. The use of trusts in tax and estate planning is also explored. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

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.

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.

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.

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.

TAX 6876 Transactions in Property (AC) (3). An in-depth investigation into tax problems relating to basis, 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 admission to a graduate program in the School of Accounting or permission of the School Director.

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 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 vis a vis legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 5245 Transportation Logistics (ME) (3). Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optimalization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

TRA 5401 Transportation Operations and Carrier Management (ME) (3). Contemporary management techniques as applied to carriers' management problems peculiar to transportation firms; economic analysis of marketing problems; capital formation; costs; pricing; labor relations; and government regulation.

TRA 6015 Graduate Survey of Transportation Management (ME) (3). Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles in transportation. Current policies and problems for all the major transportation modes.

TRA 6905 Independent Study in Transportation (ME) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.
College of Business Administration

Dean
Harold E. Wyman

Associate Dean
Donald W. Farl

Associate Dean
Dana L. Farrow

Associate Dean
George Simmons

Director, School of Accounting
James H. Schelner

Chairpersons:
Decision Sciences and Information Systems
Daniel Robey

Finance
Arun J. Prakash

Management and International Business
Gary Dessler

Marketing and Business Environment
Barnett A. Greenberg

Faculty
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Elam, Joyce, J. (University of Texas, Austin), Professor and James L. Knight Eminent Scholar, Decision Sciences and Information Systems

Falt, Donald W., M.Acc. (Bowling Green State University), CPA, Instructor, Accounting, and Associate Dean

Farrow, L. Dana, Ph.D. (University of Rochester), Professor, Management and International Business and Associate Dean

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Garcia, Georgina, M.S.M. (Florida International University), CPA, Lecturer, Accounting

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Goodrich, Jonathan N., Ph.D. (State University of New York at Buffalo), Professor, Marketing

Greenberg, Barnett A., DBA (University of Colorado), Professor and Chairperson, Marketing and Business Environment

Guo, Min H., Ph.D. (University of Arizona), Assistant Professor, Accounting

Gupta, Sushil K., Ph.D. (University of Delhi), Professor, Decision Sciences and Information Systems and Vice Provost

Hallauer, Rosalie C., Ph.D. (University of Florida), CPA, CMA, Associate Professor, Accounting

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Hodgetts, Richard M., Ph.D. (University of Oklahoma), Professor, Management and International Business

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Jarrett, Royland D., M.B.A. (American University), Regional Manager, Small Business Development Center

Jerome, William T., III, D.C.S. (Harvard University), Distinguished University Professor, Management and International Business

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Kemerer, Kevin, Ph.D. (Virginia Polytechnic Institute), Assistant Professor, Accounting

Keys, James D., M.B.A. MSF (Florida International University), Instructor, Finance

Koulianos, Christos P., Ph.D. (Texas Tech University), Associate Professor, Decision Sciences and Information Systems

Kranendonk, Carl J., M.B.A. (University of Tulsa), Instructor, Marketing and Business Environment

Kroock, K. Galen, Ph.D. (University of Akron), Associate Professor, Management and International Business, and Director, Doctoral Studies

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Maidique, Modesto A., Ph.D. (Massachusetts Institute of Technology), Professor, Management and International Business, and University President
Mallien, David C., M.B.A. (Columbia University), Information Bid Coordinator, Small Business Development Center
Mann, Philip H., Ed.D., (University of Virginia), Lecturer, Department of Management and International Business and Director, Entrepreneurial Studies
Mandakovic, Tomislav, Ph.D. (University of Pittsburgh), Professor, Decision Sciences and Information Systems
McClung, Rose Marie, M.Ed., (University of Miami), Coordinator, Entrepreneurial Studies
Mlniard, Paul, Ph.D. (University of Florida), Professor, Marketing
Moss, Sherry, Ph.D. (Florida State University), Assistant Professor, Management and International Business
Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor, Emeritus, Accounting
Muralidhar, Krishnamurty, Ph.D. (Texas A&M University), Associate Professor, Decision Sciences and Information Systems
Nesbit, Marvin D., M.B.A. (University of West Florida), Director, Small Business Development Center
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Nunez, Leonardo S., J.D. (Nova University), CPA, CMA, Lecturer, Accounting
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Orltz, Marta, Ph.D. (University of Miami), Associate Professor, Marketing
Pak, Simon, Ph.D. (University of California, Berkeley) Associate Professor, Finance
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Paul, Karen, Ph.D. (Emory University), Professor, Business Environment
Pernez, Elena M., J.D., M.B.A. (University of Miami), Instructor, Finance
Polstor, Eleane, M.B.A. (Florida International University), Instructor, Management and International Business
Pomeranz, Felix, Ph.D. (University of Birmingham, England), CPA, CSP, CFE, Professor and Associate Director, Accounting, and Director, Center for Accounting, Auditing, and Tax Studies
Prados, Antonio F., M.S., (Massachusetts Institute of Technology), Lecturer, Management and International Business, and Director, International Executive Education
Prakash, Arun, Ph.D. (University of Oregon), Professor and Chairperson, Finance
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Ruf, Bernardette, Ph.D. (Virginia Polytechnic Institute), Assistant Professor, Accounting
Rutledge, Robert W., Ph.D. (University of South Carolina), Assistant Professor, Accounting
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Scheiner, James, Ph.D. (The Ohio State University), Professor and Director, Accounting
Sedon, Bruce, Ph.D. (Washington University), Associate Professor, Marketing
Selin, Maung K., Ph.D. (Indiana University), Assistant Professor, Decision Sciences and Information Systems
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Shepherd, Phillip, Ph.D. (Vanderbilt University), Associate Professor, Business Environment
Silverblatt, Ronnie, Ph.D. (Georgia State University), Associate Professor, Management and International Business
Simmons, George B., D.B.A. (Indiana University), Distinguished Service Professor, Finance, and Associate Dean
Smith, Larry A., Ph.D. (State University of New York at Buffalo), Associate Professor, Decision Sciences and Information Systems
Sullivan, Michael A., Ph.D. (Yale University), Assistant Professor, Finance
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Uliss, Barbara T., Ph.D. (Case Western Reserve University), CPA, CDP, Assistant Professor, Accounting
Valenzi, Enzo R., Ph.D. (Bowling Green State University), Professor and Chairperson, Management and International Business
Vasquez, Arturo, Ph.D. (Texas Tech University), Associate Professor, Marketing
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.

Wiskeman, Richard H., Jr., MBA (University of Miami), CPA, Distinguished Lecturer, Accounting

Wrieden, John A., J.D. (George Mason University), Lecturer, Accounting

Wyman, Harold E., Ph.D. (Stanford University), Professor, Accounting, and Dean

Yeaman, Doria, 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), Lecturer, Decision Sciences and Information Systems
College of Education
College of Education

The College of Education has a dual mission: to prepare competent and creative professionals to both serve and provide leadership in existing learning environments; and to address the social, economic, and political conditions that restrict the possibilities of educational opportunity in a multicultural, pluralistic society. Accordingly, the College concerns itself with both education and social change.

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
- Middle, Secondary, and Vocational Education

Programs of studies include adult education, human resource development, art education, biology education, chemistry education, community college teaching, early childhood education, educational administration/leadership, educational psychology (including counseling and school psychology), elementary education, English education, health education (exercise physiology), home economics education, international development education, mathematics education, modern languages education, music education, multicultural education, parks and recreation management (leisure service management, therapeutic recreation, physical education (teacher certification for grades k-8, teacher certification for grades 6-12, and sports management), science education, social studies education, special education, reading education, teaching English as a Second Language (TESOL), and vocational education programs (administration and supervision, health occupations education, technology education, urban education, vocational home economics education, and vocational industrial education).

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 curriculums 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 Miami Campus. Broward residents may call (305) 523-4422 for North Miami 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.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University’s various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.

All stated admission requirements are to be considered 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’s Degree Programs

Applicants for admission to most Master’s programs in Education must hold or qualify for Florida teacher certification in the appropriate area. All applicants must also satisfy Board of Regents admission requirements: A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study or 1000 (total of verbal and quantitative) on the Graduate Record Examination (GRE). Applicants admitted with a pending GRE score must submit a test score within one semester to be fully admitted. All applicants, regardless of GPA, must submit a GRE score.

Note: 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 must transfer a maximum 6 semester hours taken at another accredited college or university toward a master’s degree program having 30-45 semester hours, and a maximum 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 Middle, Secondary, and Vocational Education and Educational Psychology Special Education and/or the Elementary Education section.

Educational Specialist Degree Programs

The College offers Educational Specialist degree programs in Curriculum and Instruction, Educational Leadership, and School Psychology. The programs require a minimum of 36 semester hours of work at the Uni-
versity 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
The Doctor of Education degree is offered in Adult Education and Human Resource Development (including a track in Vocational and Technical Education Leadership), Community College Teaching, Curriculum and Instruction (including program specializations in the following areas: Art Education, Early Childhood Education, Elementary Education, English Education, Instructional Leadership, Mathematics Education, Modern Language Education, Music Education, Science Education, Reading Education, and Social Studies Education), Educational Administration and Supervision, and Exceptional Student Education. Avisement 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.

Note: Beginning Fall 1993, all students admitted to College of Education doctoral programs must enroll in EDG 7937 “Advanced Topics in Education” within the first year of enrollment. This is a requirement of all doctoral programs.

North Miami Campus and Broward Program
The College of Education has programs of studies at the North Miami Campus and at the Broward College Central Campus. Students interested in information regarding the North Miami Campus should call the College of Education at (305) 940-5820 or (305) 523-4422. (Broward line).

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.

Students interested in information regarding the Broward program should call the College of Education at (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.

Educational Leadership and Policy Studies
Kingsley Banya, Associate Professor and Chairperson, Curriculum and Instruction
Peter J. Cladon, 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
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
Loriana M. Novoa, Assistant Professor, Educational Leadership
Mary L. Pankowski, Professor, Adult Education and Human Resource Development and Vice President, North Miami Campus and University Outreach
Sarah W. J. Pell, Professor, Educational Leadership
Judith J. Slater, Assistant Professor, Curriculum and Instruction
Douglas H. Smith, Associate Professor, Adult Education and Human Resource Development

The Department of Educational Leadership and Policy Studies offers graduate programs in adult education and human resource development, curriculum and instruction, instructional leadership and educational leadership. 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 as 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.

The department offers Master of Science degrees in Adult Education and Human Resource Development, and Educational Leadership, the Specialist degree in Curriculum and Instruction; Instructional Leadership and in Educational Leadership, and the Doctor of Education degree in Adult Education and Human Resource Development, Community College Teaching, Curriculum and Instruction: Instructional Leadership, and Educational Administration and Supervision. 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.

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 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, and service, and other agencies. Graduate programs in 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 5081</td>
<td>Introduction to Adult Education and Human Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5385</td>
<td>Adult Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5383</td>
<td>Instructional Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ADE 6286</td>
<td>Instructional Development and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>ADE 6180</td>
<td>Organizational and Community Processes in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>ADE 6260</td>
<td>Management of AE/HRD Programs</td>
<td>3</td>
</tr>
<tr>
<td>ADE 6945</td>
<td>Internship in AE or HRD</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Education Research</td>
<td>3</td>
</tr>
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</table>

**Advised Electives**

**Area of Professional Emphasis:** (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 6061</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6250</td>
<td>Curriculum Development and Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6050</td>
<td>Supervision and Staff Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Guided Electives**

12

**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 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>Hours</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>
<tr>
<td>EDA 6930</td>
<td>Seminar in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6115</td>
<td>School Personnel Management</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 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.

Research and Statistics Component of Doctoral Programs

A research requirement of 12 semester hours is common to all College of Education doctoral programs.

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6486</td>
<td>Research Methods in Education: Experimental Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Requirement of Doctoral Programs

<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.

One of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6403C</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>

Students must complete course prerequisites prior to enrolling in courses with pre-requisites.

Adult Education and Human Resource Development (AE/HRD)

The doctoral program in Adult Education and Human Resource Development (AE/HRD) is designed to serve the advanced graduate study needs of a wide range of professionals in leadership positions who are concerned with the design, implementation, and evaluation of educational and training programs for adults. These professionals may be engaged in program development and evaluation, instruction and training, counseling and advisement, consultation, and marketing and recruitment activities designed to further the growth and development of adult learners, or to improve organizational functioning through educationally-related intervention strategies, or both. Accordingly, participants in the program come from such diverse backgrounds as business and industry, higher education, public and proprietary schools, health and social service agencies, law enforcement and corrections, the military, governmental agencies, religious organizations, libraries and museums, and civic and professional associations.

Additional Admission Requirements

In addition to the admission requirements stated, the applicant must possess:

1. Evidence of commitment to a career in the 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.

All students admitted to College of Education doctoral programs must enroll in EDG 7937 "Advanced Topics in Education" within the first year of enrollment. This is a requirement of all doctoral programs.

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 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).

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 7226 Higher Education: Developmental Programs 3
EDF 7937 Advanced Topics in Education 3

Additional courses in Education that will enhance the student’s instructional abilities and skills. 9
EDF 7937 Advanced Topics in Education* 3

*All 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: (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
EDF 6211 Psychological Foundations of Education 3
EDF 7937 Advanced Topics in Education* 3

*All doctoral students must enroll in EDF 7937 within their first year of admission.

Specialty Area: (36)
The specialty areas include art education, early childhood education, elementary education, English edu-
cation, 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. 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
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 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
Guided Electives in Educational Administration and Supervision 12
Minor/Cognate Area 15
Research and Statistics 12
Dissertation 24

Upon completion of the coursework, each student must pass a candidacy examination and be advanced to candidacy.

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 study 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

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**Educational Psychology and Special Education**

**Donald C. Smith,** Professor and Chairperson, Educational Psychology/School Psychology, Counselor Education

**Patricia Barbetto,** Assistant Professor, Emotionally Handicapped

**Michael P. Brady,** Professor, Special Education

**Wendy Cheyne,** Associate Professor, Learning Disabilities

**Maris Gavian,** Associate Professor, Educational Psychology/Bilingual Education

**Phillip J. Lazarus,** Associate Professor, School Psychology, Educational Psychology

**Luretha F. Lucky,** Associate Professor, Mental Retardation

**David E. Nathanson,** Professor, Gifted Education, Mental Retardation, Educational Psychology

**Janice Phelps,** Assistant Professor, Community Mental Health Counseling, Educational Psychology

**Howard Rosenberg,** Associate Professor, Mental Retardation

**Cindy Skaruppa,** Assistant Professor, Special Education, Educational Psychology

**Stephen S. Stichart,** Professor, Learning Disabilities

**Jethro W. Toomer,** Professor, Community Mental Health Counseling

**Nina Zaragoza,** Assistant Professor, Early Childhood Special Education

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**General Information**

The Department offers a variety of programs to prepare counselors to work in school and community settings, psychologists to work in the schools, and teachers of emotionally disturbed, gifted, learning disabled, and mentally retarded students. All programs require substantial supervised fieldwork. State of Florida certification requirements are met or are prerequisites for all programs preparing school personnel.

It is recommended that students meet with an advisor throughout the program to assure adequate progress.

**Master of Science**

Community Mental Health Counseling

School Counseling

Special Education

---

Varying Exceptionalities

(Alternate Track Masters Degree)

Educational Specialist

School Psychology

Doctor of Education

Exceptional Student Education

Master of Science Degree Programs

**Educational Psychology**

Programs within the field of Educational Psychology are designed to train professionals to meet the unique needs of individuals who experience cognitive, academic, and/or social-emotional difficulties that interfere with the individual's progress in school and in the community. Specific competencies are delineated for professionals in the field of school counseling, community mental health counseling, and school psychology.

These programs emphasize the blending of research and theory with practical applied experience. They consider the urban, 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, academic and volunteer experience, 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 and School Psychology programs.

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.

Counselor Education Tracks

The counselor education tracks require 60 semester hours, or the equivalent of four academic semesters, and lead to the Master of Science degree. The tracks follow a competency-based model, the early part of which is largely generic in nature and is concerned with the development of knowledge and skills in the areas of individual and group counseling, consultation, preventive mental health, educational-vocational development, client appraisal, systems intervention, and model program organization and evaluation. The latter part of the program is more differentiated, and enables a specialization in either community mental health or school counseling. Both areas of specialization meet the standards recommended by the American Counseling Association and specialization in school counseling qualifies the graduate for the Florida School Guidance Certificate. The Community Mental Health Counseling curriculum meets the master's degree requirement for eligibility towards licensure as a mental health counselor by the State of Florida, Department of Professional Regulation.

The prospective student should be advised that a substantial amount of time is spent in field work to meet practicum and internship requirements. The practicum requirement is the equivalent of one work day per week spent in a field placement during one academic semester followed by an internship consisting of a 40 hour work week in a field placement for the duration of one academic semester. The student should plan for this field work to be during the day, rather than during evening hours.

All students entering the School Counseling track with an undergraduate degree in an area other than education must enroll for courses in general professional education as required by the Florida State Department of Education in order to meet state certification requirements in Florida.

Students applying to the Community Mental Health Counseling program with an out-of-field undergraduate major must complete 18 hours of prerequisite coursework.

Community Mental Health Counseling

Required Program: (60)

MHS 6700 Professional Problems in Counseling 3
MHS 5400 Introduction to Counseling 3
MHS 6513 Human Interaction I: Group Process and Social Behavior 3
MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3
MHS 6514 Human Interaction II 3
EDF 5481 Analysis and Application of Educational Research 3

Advised Electives

1 Students should consult with program advisor regarding courses required by the Department of Professional Regulation for certification eligibility as a Mental Health Counselor.

School Counseling

Required Program: (60)

First Year: (27)
SDS 6700 Professional Problems in Counseling 3
MHS 5400 Introduction to Counseling 3
MHS 5460 Crisis Counseling and Intervention 3
MHS 6513 Human Interaction I: Group Process and Social Behavior 3
MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3
MHS 6514 Human Interaction II 3
EDF 5481 Analysis and Application of Educational Research 3
EEX 6051 Exceptional Children and Youth 3
Term II: (3)
MHS 6512 Advanced Behavioral Consultation: Theory and Practice 3
MHS 6605 Advanced Practicum in Counseling and Education 3
MHS 6627 Early Childhood Counseling: The Younger Classroom 3
MHS 6680 Advanced Practicum in Counseling and Education 3
MHS 6770 Internship in Counseling and Education 6

Electives 12

Advised Electives 5

Students who do not possess a regular Florida Department of Education teaching certificate must enroll for 12 semester hours credit distributed as follows: Sociological Foundation 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.

Educational Specialist in School Psychology

The program in School Psychology requires a minimum of 71 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; staffing, liaison, referral, and case management; program development and evaluation; in-service education; administrative consultation; and community development.

Required Program: (71)
EDF 5481 Analysis and Application of Educational Research 3
EDF 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 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
SPS 6678 Supervised Field 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.S. by taking a sequence of courses approved by the department.

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 seven elective clusters of courses. Each elective cluster includes 15 semester hour credits and may lead to additional endorsement or certification.

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. In addition, several advanced theory and research courses are required.
The Doctoral Program in Exceptional Student Education prepares students for administrative, supervisory, research, and 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, along with letters of recommendation. The candidate must submit a GPA score from the undergraduate program in Special Education.

Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include GRE scores, undergraduate grade point average, junior and senior years, work and volunteer experience, 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 GPA 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)

<table>
<thead>
<tr>
<th>Course Code</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>EEX 6060</td>
<td>Curriculum Planning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6211</td>
<td>Assessment of Learning and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6535</td>
<td>Seminar in Special Education: School Administration</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6846</td>
<td>Seminar in Special Education: Issues and Trends</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6912</td>
<td>Advanced Theory and Research in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Clusters: Choose One (15)

Gifted Education (Endorsement)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6417</td>
<td>Guidance and Counseling of Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EGI 5051</td>
<td>Nature and Needs of Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EGI 5232</td>
<td>Educational Procedures and Curriculum for the Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EGI 6306</td>
<td>Creativity and the Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EGI 6405</td>
<td>Gifted Minority Students</td>
<td>3</td>
</tr>
</tbody>
</table>

Physically Impaired (Certification)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6236</td>
<td>Characteristics of Physically Impaired and Profoundly Handicapped Individuals</td>
<td>3</td>
</tr>
<tr>
<td>PHT 5515</td>
<td>Managing Therapy Services for Handicapped Children</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6546</td>
<td>Resources and Skills Physically Impaired/Profoundly Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>OTH 6547</td>
<td>Strategies for the Physically Impaired/Profoundly Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6863</td>
<td>Supervised Field Experience Physically</td>
<td>3</td>
</tr>
</tbody>
</table>

Emotionally Disturbed

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5525</td>
<td>Seminar in Juvenile Delinquency</td>
<td>3</td>
</tr>
</tbody>
</table>

Pre-Kindergarten Handicapped Education (Endorsement)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6213</td>
<td>Assessment of Infants and Preschoolers with Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6017</td>
<td>Typical and Atypical Child Development: Birth - 5 Years</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6455</td>
<td>Program Development for the Preschool Handicapped Child: Birth - 5 Years</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6351</td>
<td>Intervention Strategies in Marriage and the Family</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6863</td>
<td>Supervised Field Experience/Early Childhood</td>
<td>3</td>
</tr>
</tbody>
</table>

Secondary Programs for the Mildly Handicapped

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6065</td>
<td>Educational Program for Secondary Level Learning Disabled Students</td>
<td>3</td>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>SCE 6635</td>
<td>Teaching Science in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6633</td>
<td>Teaching Social Studies in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>MAE 6636</td>
<td>Teaching Math in Secondary Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

Reading for Exceptional Students

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6250</td>
<td>Reading for Exceptional Students</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>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5707</td>
<td>Cultural and Cross Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development in ESL</td>
<td>3</td>
</tr>
<tr>
<td>FLE 6938</td>
<td>Seminar in Second Language Testing</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6863</td>
<td>Supervised Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
</tbody>
</table>
Special Topics in Counseling and School Psychology 3
Crisis Counseling and Intervention 3
Ecological Intervention: Strategies for the Severely Emotionally Disturbed 3
Supervised Field Experience in EH/SED 3

Out-of-Field Majors
Students with certification in Elementary Education may enter the Master's degree program in Special Education by meeting the standard entrance requirements and completing the 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.

A student eligible for or holding a Florida Teaching Certificate in other areas of education should consult with an academic advisor for evaluation of entry competencies to the program.

Required Special Education Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 3010C</td>
<td>Introduction to Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>or EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3000</td>
<td>Introduction to Language Development</td>
<td>3</td>
</tr>
<tr>
<td>or EEX 6106</td>
<td>Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3221</td>
<td>Assessment of Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>or EEX 6227</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>or MHS 6410</td>
<td>Behavioral and Cognitive Modification Techniques in</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialization Requirements

Varying Exceptionalities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 3202</td>
<td>Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6771</td>
<td>Personal and Social Foundations or Independent Living for the Handicapped</td>
<td>3</td>
</tr>
</tbody>
</table>

Mental Retardation

<table>
<thead>
<tr>
<th>Course</th>
<th>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 the Mentally Retarded</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4362</td>
<td>Instructional Strategies for the Mentally Retarded</td>
<td>3</td>
</tr>
</tbody>
</table>

Learning Disabilities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELD 4230</td>
<td>Curriculum for the Learning Disabled</td>
<td>3</td>
</tr>
<tr>
<td>ELD 4240</td>
<td>Instructional Strategies for the Learning Disabled</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</th>
<th>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>EEX 4611</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>EED 4244</td>
<td>Curriculum for the Emotionally Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>EED 4243</td>
<td>Instructional Strategies for the Emotionally Handicapped</td>
<td>3</td>
</tr>
</tbody>
</table>

Alternate Master's Track: Varying Exceptionalities

Admission requirements to the Alternate Master's Track in Varying Exceptionalities are similar to 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 coursework.

Professional Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5414</td>
<td>Instructional Strategies for the Classroom Teacher</td>
<td>4</td>
</tr>
<tr>
<td>EDG 5707</td>
<td>Cultural and Cross Cultural Studies</td>
<td>4</td>
</tr>
<tr>
<td>EDF 5717</td>
<td>History of American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Special Education Certification Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6106</td>
<td>Diagnostic Teaching: Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6227</td>
<td>Diagnostic Teaching: Educational Assessment</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>EEX 6771</td>
<td>Independent Living for the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>RED 6155</td>
<td>Instruction in Elementary Reading</td>
<td>3</td>
</tr>
<tr>
<td>MAE 4310</td>
<td>Teaching Elementary Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>LAE 6355</td>
<td>Instruction in Elementary Language Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Special Education Program Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6060</td>
<td>Curriculum Planning and Development in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4362</td>
<td>Instructional Strategies for the Mentally Retarded</td>
<td>3</td>
</tr>
<tr>
<td>EED 4243</td>
<td>Instructional Strategies for the</td>
<td>3</td>
</tr>
</tbody>
</table>
Emotionally Handicapped 3*

ELD 4240 Instructional Strategies for the Learning Disabled 3

EDF 5481 Analysis and Application of Educational Research 3

EE 6912 Advanced Theories and Research: Special Education 3

EE 6862 Student Teaching* 6

*Field Work Required

Applications to student teach are due in the office of the Director of Student Teaching by July 1 for placement in the Spring semester.

To Add Specific Learning Disabilities:

ELD 4230 Curriculum for the Learning Disabled 3

ELD 6323 Advanced Theory and Practice: Learning Disability 3

To Add Mental Retardation:

EMR 4221 Curriculum for the Mentally Retarded 3

EMR 6852 Advanced Theory and Practice: Mental Retardation 3

To Add Emotionally Handicapped

EE 4611 Behavioral Approaches to Classroom Learning II 3

EED 4244 Curriculum in Emotionally Handicapped 3

EED 6226 Advanced Theory and Practice: Emotional Handicaps 3

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 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 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.

Core Courses: (15)

EE 6937 Seminars in Special Education 3

EE 6208 Medical Aspects of Exceptionality 3

EE 6301 Research in Cognitive Processes of Handicapped Students 3

EE 6203 Advanced Psycho-Social Aspects of Exceptionality 3

Seminar in Special Ed.: Supervision and Leadership 3

EDF 7937 Advanced Topics in Education* 3

*All doctoral students must enroll in EDF 7937 within their first year of admission.

Specialty Area: (30)

Exceptional Student Education and 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.

Note: Beginning Fall 1993, all students admitted to College of Education doctoral programs must enroll in EDF 7937 “Advanced Topics in Education” within the first year of enrollment. This is a requirement of all doctoral programs.

Research and Statistics: (12)

Required Courses:

EDF 5481 Analysis and Application of Educational Research 3

EDF 6486 Research Methods in Education: Experimental Design and Analysis 3

One of the following:

EDF 6403 Quantitative Foundations of Education 3

EDF 6475 Qualitative Foundations of Educational Research 3

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: (EEX 7980)
The student is responsible for a minimum of 24 semester hours of dissertation credits. 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

The Department offers Professional Certificate Program in Specific Learning Disabilities, Emotional Disturbance, and Mental Retardation. 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 Exceptional Children and Youth 3
EEX 6106 Acquisition of Language and Reading Skills 3
EEX 6227 Educational Assessment 3
EEX 6771 Independent Living for the Handicapped 3
EEX 4601 Behavioral Approaches to Classroom Learning 3
ELD 4230 Curriculum for the Learning Disabled 3

ELD 4240 Instructional Strategies for the Learning Disabled 3
ELD 6323 Advanced Theory and Practice: Learning Disability and Research in Special Education 3

Emotional Disturbance

EEX 6051 Exceptional Children and Youth 3
EEX 6106 Acquisition of Language and Reading Skills 3
EEX 6227 Educational Assessment 3
EEX 6771 Independent Living for the Handicapped 3
EEX 4601 Behavioral Approaches to Classroom Learning 3
EEX 4611 Behavioral Approaches to Classroom Learning II 3
EED 4243 Instructional Strategies for the Emotionally Handicapped 3
EED 6226 Advanced Theory and Practice: Emotionally Handicapped 3

Mental Retardation

EEX 6051 Exceptional Children and Youth 3
EEX 6106 Acquisition of Language and Reading Skills 3
EEX 6227 Educational Assessment 3
EEX 6771 Independent Living for the Handicapped 3
EMR 4221 Curriculum for the Mentally Retarded 3
EMR 4362 Instructional Strategies for the Mentally Retarded 3
EMR 6852 Advanced Theory and Practice: Mental Retardation 3

Program for Guidance 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 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 or other approved area, transcripts of all college credits, autobiographical form, and three letters of recommendation.

Required Program: (33)

EGC 6605 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 School Psychology 3
EDF 6211 Psychological Foundations of Education 3
MHS 5400 Introduction to Counseling 3
MHS 6513 Human Interaction I: Group Process and Social Behavior 3
MHS 6510 Group Counseling 3
MHS 6411 Advanced Counseling and Consultation: Theory and Practice 3
SDS 6784 School Law for Student Service Workers 3
MHS 6428 Counseling the Culturally Different 3
MHS 6800 Advanced Practica 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 practica 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 semester placement.
Certification in Gifted Education

Individuals who hold Florida teacher certification in any subject or field, may receive certification 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

Elementary Education

- George E. O'Brien, Associate Professor and Chairperson, Elementary Education
- John Bath, Assistant 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. Gilbert, 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, Assistant Professor, Reading and Language Arts Education
- George S. Morrison, Professor, Early Childhood Education and Urban Education
- Edward M. Reichbach, Associate Professor, Social Studies Education
- William M. Ritzl, Instructor, Art Education
- Catherine Soli, Instructor, Elementary Education
- Yee P. Soon, Assistant Professor, Mathematics Education
- Robert F. Testa, Associate Professor, Music Education

General Information

The department offers programs in elementary, early childhood, and reading education. The elementary education program may be taken at the bachelor's, master's, or doctoral levels. The early childhood and reading programs offer master's and doctoral degrees only.

It is recommended that students meet with an advisor throughout the program to assure adequate progress.

The department is committed to service to the community and the extension of knowledge through research. The department’s programs are:

Master of Science in:
- Early Childhood Education
- Elementary 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.

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)

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>EDE 6205</td>
<td>Curriculum Design for Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6225</td>
<td>Educational Program for Older Children</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 Elementary Reading</td>
<td>3</td>
</tr>
<tr>
<td>MAE 6318</td>
<td>Instruction in Elementary Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

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
4. Little or no academic preparation in education and no teacher certification in any area

Program Courses (55)

Block 1: (13)

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<td>EDG 5414</td>
<td>Instructional Strategies</td>
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<td>EDF 5517</td>
<td>History of American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
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<td>Analysis and Production of Educational Research</td>
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Block 2: (10)

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<th>Course Title</th>
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<td>LAE 6355</td>
<td>Instruction in Elementary Language Arts</td>
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<tr>
<td>RED 6155</td>
<td>Instruction in Elementary Reading</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6355</td>
<td>Instruction in Elementary Social Studies</td>
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<tr>
<td>EDE 6948</td>
<td>Graduate Internship in Elementary Ed.</td>
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<tr>
<td>EDE 6205</td>
<td>Curriculum Design in Childhood Education</td>
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<tr>
<td>ARE 6315</td>
<td>Instruction in Elementary Art</td>
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<td>HLP 3013</td>
<td>Teaching Elementary Health and P.E.</td>
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<td>MUE 6316</td>
<td>Instruction in Elementary Music</td>
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<td>EDE 6948</td>
<td>Graduate Internship in Elementary Education</td>
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Block 4: (10)

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<tr>
<td>MAE 6318</td>
<td>Instruction in Elementary Math</td>
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<tr>
<td>SCE 6315</td>
<td>Instruction in Elementary Science</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5432</td>
<td>Educational Measurement and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6948</td>
<td>Graduate Internship in Elementary Education</td>
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Block 5: (9)

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<td>EDE 6225</td>
<td>Educational Programs</td>
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</tr>
<tr>
<td>EDE 6948</td>
<td>Graduate Internship in Elementary Ed.</td>
<td>1-6</td>
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</tbody>
</table>

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)

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<tr>
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<th>Course Title</th>
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<td>EDG 6250</td>
<td>Curriculum Development</td>
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<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
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<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Education Research</td>
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<tr>
<td>RED 6155</td>
<td>Instruction in Reading</td>
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<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
<td>3</td>
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<tr>
<td>RED 6515</td>
<td>Programs of Remediaion in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Diagnosis of Reading Difficulty</td>
<td>3</td>
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Specialization Courses: (15)

Courses to be selected from among Reading or Language Arts course listings, in consultation and with approval of advisor.

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<td>LAE 5415</td>
<td>Children's Literature</td>
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<tr>
<td>LAE 5927</td>
<td>Special Topics in Language Arts</td>
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<tr>
<td>LAE 6355</td>
<td>Instruction in Language Arts</td>
<td>3</td>
</tr>
<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 5911</td>
<td>Directed Study in Reading</td>
<td>3</td>
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<tr>
<td>RED 5925</td>
<td>Special Topics in Reading Education</td>
<td>3</td>
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<tr>
<td>RED 6247</td>
<td>Organization and Supervision of Reading Programs</td>
<td>3</td>
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<tr>
<td>RED 6747</td>
<td>Research in Reading</td>
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<tr>
<td>RED 6805</td>
<td>Practicum in Reading</td>
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<tr>
<td>RED 6845</td>
<td>Clinical Process in Reading</td>
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<tr>
<td>RED 6931</td>
<td>Seminar in Reading Education</td>
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</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:

- Three letters of reference attesting to the applicants ability to succeed in doctoral study;
- A current resume/vita;
- 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 department faculty which comprise the Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. 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: (18)

- EDG 7222 Curriculum: Theory and Research 3
- EDG 7362 Instruction: Theory and Research 3
- EDG 7655 Seminar in Curriculum 3
- EDF 7934 Seminar in Social Foundations of Education 3
- EDF 6211 Psychological Foundations of Education 3
- EDF 7937 Advanced Topics in Education* 3

*All doctoral students must enroll in EDF 7937 within their first year of admission.

Specialty Area: (36)

The specialty area is a major area of study, 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 in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the other departments of the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student’s program.

Research and Statistics: (12)

Required Courses

- EDF 5481 Analysis and Application of Research 3
EDF 6486 Research Methods in Education: Design and Analysis 3

One of the following:
EDF 6403 Quantitative Foundations of Educational Research 3
EDF 6475 Qualitative Foundations of Educational Research 3

Candidacy Examinations and Advancement to Candidacy
The student must successfully pass 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
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
RED 6155 Instruction in Elementary Reading or
RED 6305 Instruction in Early Childhood Reading 3

Required Program
EDF 5432 Measurement and Evaluation in Education 3
LAE 5415 Children’s Literature 3
LAE 6355 Instruction to Elementary Language Arts 3
RED 6546 Diagnosis of Reading Difficulty 3
RED 6515 Programs of Remediation in Reading 3

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 and Chairperson, Educational Foundations, Politics of Education
Miguel Angel A. Escote, Professor, International and Intercultural Development and Research
Robert V. Farrell, Associate Professor Educational Foundations, International Development Education
Rosa Castro Felnberg, Associate Professor, Educational Foundations, Bilingual Education/TESOL
I. Ira Goldenberg, Professor and Dean, Educational Foundations
Christine Uber Grosse, Assistant Professor, TESOL
E. Joseph Kaplan, Assistant Professor, Educational Foundations
Joe L. Kincheloe, Professor, Educational Foundations and Cultural Studies
Colleen A. Ryan, Associate Professor, Educational Psychology, Educational Foundations
S.L. Woods, Associate Professor, Educational Foundations

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 fields of:

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 Education.
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/FIU Urban Education Program, which is comprised of the Urban Education Certificate Program and the Master's Degree in Urban Education with specialty track options in Urban Education, Instruction in Urban Settings, Multicultural Education and TESOL and Multicultural/Bilingual/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 1,000 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 applicants background, professional interests and goals in the area of International Development Education.

**Degree Requirements**

The Master's program requires the completion of a minimum of 36 semester hours of 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 3
- EDF 5852 Educational Development Issues In Context A
Master of Science in Teaching English to Speakers of Other Languages (TESOL)

Requirements for admission are satisfactory scholastic aptitude as determined by the Graduate Admissions Standards, and evidence of a satisfactory record in the teaching field.

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
(c) have a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or
(d) 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 3011, or LIN 5018.

Required Program: (30)

Professional Education: (12)

All students will be required to complete 12 semester hours in the College of Education:

- EDF 5481 Analysis and Application of Educational Research 3
- TSL 5142 Curriculum Development in ESOL 3
- TSL 5371 Special Methods of TESOL 3
- TSL 5938 Principles of ESOL Testing 3

Program Courses: (15)

Required: (6)
- LIN 5206 Phonetics 3
- LIN 5501 English Syntax 3

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 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, or both;
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)

- EDF 6211 Psychological Foundations of Education 3
- EDF 6602 Social and Philosophical Foundations of Education 3
- EDF 6636 Race, Class, Ethnicity, National Origin, Gender in Education 3

Specialty Track #1: Urban Education (15)

- EDE 5267 Education of the Child in Urban Society 3
- EDF 5861 Socio/Cultural Conflict in Education 3
- EDF 6689 Urban Education: Defining the Field 3

Guided Electives in Urban Education (6)

Six hours of electives may be taken with approval of academic advisor.

Interdisciplinary Electives (select one) (3)

- EDG 5707 Cultural/Crosscultural Studies in Education 3
- EDG 6631 Multicultural Education: Defining the Field 3

Elective as approved by the academic advisor

Research or Development Project Core (9)

- EDF 5481 Analysis and Application of Educational Research 3
- EDF 6925 Special Topics in Urban Education: Qualitative Research in Urban Education 3
- EDF 5941 Practicum: Urban Elementary School or
- EDG 5941 Practicum: Urban Secondary School 3

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)

- EDF 5881 Foundations in Bilingual Education 3
- EDG 5757 Curriculum in Bilingual Education 3
- FLE 4151 Bilingual SL Curriculum and Organization 3
- FLE 4871 Teaching Spanish Speakers of Spanish 3
- EDG 5942 Multicultural Seminar and Practicum in Urban Education 3

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)

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<tr>
<td>EDG 5414</td>
<td>Instructional Strategies for Classroom Teacher</td>
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<td>EDG 5414L</td>
<td>Instructional Strategies Lab</td>
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<td>EDG 5325</td>
<td>Analysis of Teaching</td>
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<td>EDG 621S</td>
<td>Application of Learning Theory to Instruction</td>
<td>3</td>
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<tr>
<td>EDF 5287</td>
<td>Instructional Technology: Systems Approach</td>
<td>3</td>
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<tr>
<td>Guided electives in Instruction</td>
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Interdisciplinary Electives: (select one) (3)

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<td>EDF 5216</td>
<td>Effective Learning in the Classroom</td>
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<tr>
<td>EDF 5707</td>
<td>Cultural/Cross-Cultural Studies in Education</td>
<td>3</td>
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<tr>
<td>EDF 6444</td>
<td>Non-biased Assessment of the Culturally Different</td>
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Any elective as approved by the academic advisor (3)

Specialty Track #4: Multicultural TESOL: (15)

<table>
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<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
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<td>TSL 5142</td>
<td>Curriculum Development TESOL</td>
<td>3</td>
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<tr>
<td>TSL 5938</td>
<td>Seminar in Second Language Testing</td>
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</tr>
<tr>
<td>TSL 5245</td>
<td>Developing ESL Language and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5942</td>
<td>Multicultural Seminar and Practicum in Urban Education</td>
<td></td>
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Three hours of electives may be taken in lieu of a course above with approval of academic advisor.

Interdisciplinary Electives: (select one) (3)

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<th>Title</th>
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<tr>
<td>EDF 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>

Any elective as approved by the academic advisor.

Add-on Certification in ESOL

Add-on Certification

Individuals who currently hold or are working toward a teaching certificate in English, Elementary, or Special Education may receive add-on certification in ESOL by completing a set of courses in ESOL, and demonstrating language proficiency in English. The student will be classified as a re-certification/add-on certification student.

Required Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 5938</td>
<td>Principles in ESOL Testing</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5707</td>
<td>Cultural and Cross-Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5371</td>
<td>Special Methods of TESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5142</td>
<td>Curriculum Development in ESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5245</td>
<td>Developing ESOL Language and Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

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 Executive Vice Provost

Charaline DeFrancesco, Assistant Professor, Physical Education and Sport Management

Youngkil Lee, Assistant Professor, Recreational Therapy, Parks and Recreation

Richard Lopez, Associate Professor, Exercise Physiology

Steven Pugh, Assistant Professor, Physical Education

Thomas K. Skalko, Associate Professor and Recreational Therapy

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.

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 nonhospitalized 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 3
PET 5625 Sports Medicine 3
PET 6775 Health Fitness Director 3
PET 6785 Exercise Program Director 3

Physiology/Biochemistry/Special Topics Requirement
PCB 4703 Human Systemic Physiology 3
or
An approved alternative and
A second approved course in physiology, biochemistry, special topics or nutrition 3

Research Requirement
Advisor approved course in research 3

Internship Requirement
PET 6940 Internship in Exercise Physiology 3

Electives (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 PEP 5115 Fitness Instructor or who do not have ACSM certification 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. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in Parks and Recreation Management.

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.

Required Program: (30-36)

Required Core: (15)
LEI 5510 Program Administration in Parks and Recreation 3
LEI 5595 Seminar in Parks, Recreation, and Sports Management 3
LEI 5605 Philosophical and Social Bases of Parks and Recreation 3
STA 6166 Statistical Methods in Research I 3

Select from one of the following two tracks: (18-19)

Leisure Service Management Track
LEI 5907 Directed Study in Parks and Recreation Management 3
Advised Electives 15
A student who did not complete a Parks, Recreation, Leisure or Sports oriented internship/field experience during his or her undergraduate degree curriculum will be required to take:
LEI 6922 Supervised Field Experiences in Parks and Recreation 6-9

Recreational Therapy Core (9)
LEI 5716 Program Planning in Therapeutic Recreation 3
LEI 5719 Client Assessment, Evaluation, and Documentation 3
LEI 6725 Administrative Aspects of Therapeutic Recreation 3

Thesis Option:
LEI 6971 Thesis: Recreational Therapy 6
Total Hours Thesis Option: 30

Non-Thesis Option:
LEI 5907 Individual Study in Parks and Recreation Management 3
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 (CTRS) by the National Council for Therapeutic Recreation Certification will be required to take the following content courses for completion of the Therapeutic Recreation graduate curriculum.

Introduction to Therapeutic Recreation
Disabling Conditions and T.R. Services
Recreational Therapy Interventions
Abnormal Psychology
Anatomy
Physiology
Human Growth and Development
LEI 6922 Supervised Field Experiences in Parks and Recreation 6-9

Master of Science in Physical Education

The Master of Science degree program in Physical Education is designed to provide advanced preparation for teachers of physical education. Applicants must hold or qualify for Florida Teacher Certification in Physical Education and must satisfy requirements for scholastic aptitude as determined by the graduate admission standards: GPA of 3.0 or 1000 on the GRE, or both. Applicants must submit GRE scores.

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.

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
LEI Law and Liability in Parks and Recreation and Sports 3
LEI 5510 Program Administration in Parks Recreation and Sports 3

Advised Electives: (6-9)

Six to nine hours of advised electives and directed study.

Middle, Secondary, and Vocational Education

A. Dean Hauenstein, Professor and Chairperson, Technology Education and Vocational Education
Arnilda Badia, Associate Professor, Modern Languages Education
David Y. Chang, Associate Professor, Art Education
Myrna P. Crabtree, Professor, Home Economics Education, Vocational Education
Anna Marie Evans, Assistant Professor, Social Studies Education
Frank T. Hammons, Assistant Professor, Mathematics Education and Computer Education
Zhonghong Jiang, Assistant Professor, Mathematics Education and Computer Education
Luis A. Martinez-Perez, Associate Professor, Science Education
C. Edwin McClinlock, Professor, Mathematics Education and Computer Education
Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education
Clem Pennington, Associate Professor, Art Education
Janice R. Sandilord, Associate Professor, Health Occupations Education, Computer Education, Vocational Education
Robert Shastok, Professor, Computer Education
Linda Spears-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 Middle, Secondary, and Vocational Education 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 3
or
EEX 6051 Exceptional Children and Youth 3
or
EDS 6050 Supervision in Education 3
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

Prerequisite: Undergraduate English methods course.

Prerequisite: Permission 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 12

Electives: In Education or Mathematics, or both

Modern Languages 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 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)
ESE 6215 Secondary School Curriculum 3
or
EDF 6205 Curriculum Design for Childhood Education 3
EDF 5481 Analysis and Application of
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 (i.e., mathematics, science, modern languages, music, art, English, social studies, history) and a minimum 3.0 cumulative GPA for the two most recent years of study or a combined GRE score of 1000. In either case, the GRE score must be submitted. In addition to the minimum GPA or the combined GRE score, or both, the applicant must receive an affirmative recommendation from the designated Program Leader, Dean of the College, or his designee following a personal interview.

This degree program requires a minimum of four semester sequence of full-time study which includes two Summer Terms, a Fall and a Spring Term and will consist of 45-48 semester hours, depending on each student's previous academic preparation.

Alternate Track Requirements

All students admitted to this track will complete the following courses as well as the graduate program courses in each of the chosen fields.

EDF 6211 Psychological Foundations of Education 3
EDF 5517 Education in American History 3
EDG 5414 Instructional Strategies in Teaching 3
EDG 5414L Instructional Strategies in Teaching: Laboratory 1
Special Teaching Lab: Area 3-6
Student Teaching (Practicum) 6
Applications to student teaching 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 competence, an area of emphasis, and electives.

Required Program: (33-36)

Required Core: (27-30)
EVT 5168 Curriculum Development in Vocational Education 3
EVT 5265 Supervision and Coordination of Vocational Education Programs 3
EVT 5664 Community Relations and Resources for Vocational Education 3
EVT 6264 Administration of Local Vocational Education Programs 3
EVT 6930 Seminar in Vocational Education 3
EDA 6061 Introduction to Educational Leadership 3
EDA 6530 Secondary School Administration 3
EDA 6232 School Law 3
EDG 6250 Curriculum Development 3
RED 6336 Reading in the Content Area 3
Area of Professional Emphasis
EVT 6946 Supervised Field Experience 3

Electives
The candidate may select a course (or courses) that will increase administrative and supervisory competencies 3

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

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

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Area of Professional Emphasis: (9)
EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education 3
EVT 5317 Occupational Analysis in Health Occupations and Nursing Education 3
EVT 6318 Current Issues in Health Occupations and Nursing Education 3

Technical Electives: (6)
The candidate will be encouraged to select courses that will increase subject area technical competence, career goals, and teaching certification requirements.

Home Economics 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: (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)
With program advisor’s approval, students may select courses in Home Economics subject matter based on professional competencies needed.

Electives: (3)
The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.

Vocational Home Economics Education
Required Program: (30)
Required Core: (15-18)
HEE 5335 Trends and Issues in Home Economics Education 3
EVT 5168 Curriculum Development in Vocational Education 3
HEE 6156 Teaching Home Economics in Diverse Environments 3
HEE 6915 Research in Home Economics Education 3
HEE 6937 Seminar in Home Economics Education 3
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 needed.

Electives: (3-6)
The candidate in consultation with the advisor will 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

Area of Professional Emphasis: (9)
With program advisor’s approval, students may select courses in Home Economics subject matter based on professional competencies needed.

Electives: (3-6)
The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.
Vocational Industrial Education

Required Program: (30)

Required Core: (18-21)
EV1 5650 Trends and Issues in Vocational Education 3
EV1 5168 Curriculum Development in Vocational Education 3
EV1 5695 International Comparative Vocational Education 3
EV1 5769 Evaluation in Vocational and Technical Education 3
EV1 6760 Research in Vocational Education 3
EV1 6930 Seminar in Vocational Education 3
RED 6336 Reading in the Content Area 1 3

Area of Professional Emphasis: (3-9)
A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences, seminars, methods courses, workshops, or independent study.

Technical Electives: (3-6)
The candidate will be encouraged to select courses that increase subject area technical competence.

1Students 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.

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 all graduate work attempted;
3. A master's degree from an accredited institution;
4. A minimum combined verbal and quantitative score of 1000 on the GRE.
5. Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise the Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.

Research and Statistics: (12)

Required Courses
EDF 5481 Analysis and Application of Educational Research 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3

One of the following:
EDF 6403 Quantitative Foundations of Education or
EDF 6475 Qualitative Foundations of Educational Research

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
EDF 6211 Psychological Foundations of Education 3
EDF 7937 Advanced Topics in Education 3

*All doctoral students must enroll in EDF 7937 within their first year of admission.

Specialty Area: (36)
The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, 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 Educa-
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)
Adult Education and HRD Core1 12
Generic Core2 33-36
EDF 7937 Advanced Topics in Education* 3

*All doctoral students must enroll in EDF 7937 within the first year of admission.

Vocational and Technical Education Leadership3 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 (including Summer semester) is required.

EDG 7980 Doctoral Dissertation 24

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.

Certificate and Add-on Certification Programs
Graduate Professional Certificate - Health Occupations Education
The overall purpose of the professional certificate program in health occupations education is to enhance the development of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing education, upgrading or redirection needs of health occupations teachers through planned advisement and professional certificate recognition. The programs are for both undergraduate and graduate, degree or non-degree seeking students.

This 24 semester hour plan is designed to meet the needs of the individual who (1) is occupationally competent in a health field and currently teaching or desires to teach a health occupations subject, (2) holds a teaching certificate or equivalent or bachelor’s degree or both including out of field and (3) does not wish to, or is unable to, meet the master’s degree entrance requirements necessary to pursue the master’s degree.

Prescribed Courses: (24)
EVT 5078 Technical Education in American Society 3
EVT 5650 Trends and Issues in Vocational Education 3
EVT 5168 Curriculum Development in Vocational Education 3
EVT 5769 Evaluation in Vocational and Technical Education 3
EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education 3
EVT 5317 Occupational Analysis in Health Occupations and Nursing Education and/or vary

1Common AE & HRD and V & TEL requirement
2May include up to 36 semester hours of graduate credit from an approved Masters degree program and transfer credit.
3May include AE & HRD courses.
Source 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.

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.

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.

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.

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.

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.

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.

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 5385.

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.

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.

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.

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.

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.

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.

ADE 6945 Internship in Adult Education and 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.

ADE 7475 Comparative Systems, Strategies and Materials for Adult Education/HRD (3). A review and critique of the prevailing inventory of
package systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations. Prerequisites: ADE 6180/ARE 5383.

**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.

**ADE 7772 Review of Research in Adult Education and Human Resource Development (3).** A review and synthesis of research & development activities in Adult Education/HRD. Examination of resources/practices/designs & justifications. Assessment of the status of research in this field. Prerequisites: EDF 5481, ADE 5383, ADE 6180.

**ADE 7920 Colloquium in AE/HRD (1-6).** Lectures & discussions by distinguished educators/social scientists/organizational executives/graduate faculty & students. Colloquium presents specific topics related to issues/trends/designs & applications.

**ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0).** Comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite: Permission of Major Professor.


**ADE 7985 Dissertation Defense, Adult Education/HRD (0).** Defense of Dissertation. Prerequisites: Permission of Major Professor and ADE 7980.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**ARE 6304 Instruction In Early Childhood Art (3).** Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and evaluation of research, in preschool, kindergarten and primary grades.

**ARE 6315 Instruction in Elementary Art (3).** Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and evaluation of research, in elementary education.

**ARE 6746 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.

**ARE 6925-29 Workshop In Art Education (3).** Production and application of materials and techniques in art education, in a laboratory or field setting.

**ARE 7938 Doctoral Seminar In Art Education (3).** Advanced doctoral study in current theories and research related to art education. Prerequisites: ARE 6746 and EDF 6486.

**CHD 5266 Advanced Studies in Child Development (3).** Survey of current literature on selected areas, analysis of trends and issues, and investigation of current research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent.

**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.

**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.

**EDA 6061 Introduction to Educational Leadership (3).** Introduction to Educational Administration/Leadership as an area of 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.

**EDA 6063 Administration of Independent Schools (3).** A survey course that examines the administration of private schools.

**EDA 6192 Leadership in Education (3).** Review, analysis and application of concepts and theories of leadership with emphasis on organizational and environmental factors, group dynamics, and change processes in education.

**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.

**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.

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; on 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.

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.

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. Prerequisite: Admission to master’s program and permission of program leader and instructor.

EDA 6925 Workshop In Educational Administration and Supervision (1-6). Offers an opportunity for experienced school personnel to participate in a problem solving workshop.

EDA 6928 Special Topics: School Improvement (1-6). Offers an opportunity for experienced school personnel to participate in a school improvement workshop.

EDA 6930 Seminar In Educational Leadership (3). In-depth review of competencies in the eight domains of effective educational leadership as prescribed by the Florida Council on Educational Management.

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.

EDA 6943 Supervised Field Experience (1-6). Supervised field experience appropriate to the student’s interests and professional goals. Prerequisite: Permission of program leader and instructor.

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.

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formation and implementation.

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.

EDA 7233 School Law II (3). Examines the area of school law in depth. Prerequisite: EDA 6232.

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 current other issues.

EDA 7288 Politics of Education (3). Analysis of the political dynamics of educational governance and the political dimension of educational administration.

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.

EDA 7905 Directed Study In Educational Administration and Supervision (1-6). For advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisite: Admission to doctoral program and permission of program leader and instructor.

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.

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.

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.

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.


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 3728, 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.

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.

EDE 6205 Curriculum Design for Childhood Education (3). Required in masters programs in early childhood, el and reading education. A study of curriculum theory, research, construction and evaluation related to elementary schools.

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.

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.

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.
EDF 6948 Graduate Internship In Elementary Education (1-6). Field based experiences in elementary education provided. Required in modified masters track. Repeatable.

EDF 6971 Thesis In Elementary Education (6). Elective in masters program in elementary education. Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDF 6488, and consent of instructor. Corequisite: EDE 6930.

EDF 7935 Doctoral Seminar In Elementary Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to elementary education. Prerequisites: EDE 6488 and EDE 6930.

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.

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.

EDF 5432 Measurement and Evaluation In Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481.

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.

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.

EDF 5850 International Development Education: Historical and Contemporary Reality (3). Designed to explore the relationship between education and the modernization/development process. Special emphasis on historic/contemporary educational planning models.

EDF 5851 Socio/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.

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.

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally.

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. Prerequisite: Written permission of the chairman of the Division and the approval of the instructor.

EDF 5941 Practicum: Urban Elementary Schools (3). Developing teacher competencies for urban elementary schools.

EDF 5942 Multicultural Seminar and Practicum In Urban Education (3). Effective methods of educating immigrant and other minority children. Prerequisite: Current Florida Teaching Certificate.

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.

EDF 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.

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.

EDF 6215 Application of Learning Theory to Instruction (3). Analysis of selected learning theories and application of these theories to an instructional system.

EDF 6301 Cognitive Psychology In Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement or attention and memory. Prerequisite: EDF 6211 or equivalent.

EDF 6403 Quantitative Foundations of Educational Research (3). Integrative coverage of fundamentals in the general field of educational research with emphasis on utilization of computers for data analysis. Prerequisites: EDF 5481 and EDF 6486, and STA 6166.

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.

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.

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.

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.

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.
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.

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.

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.

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.

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.

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.

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.

EDF 7934 Seminar in the Social Foundations of Education (3). Provides a social and philosophical frame of reference reflecting the society in which education occurs and the resulting implications for the functioning of schools. Prerequisites: M.S. or equivalent and at least one graduate course in history, philosophy or sociology, or equivalent.

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.

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.

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.

EDG 5414L Instructional Strategies Lab (1). Applies basic knowledge and skills necessary for teaching. Required of all in mod-masters programs. Corequisite: EDG 5414.

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.


EDG 6250 Curriculum Development (3). Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling.


EDG 6608 Multicultural Education: Defining the Field (3). Multicultural education and its impact on teaching and the profession. Prerequisite: Admission to Urban masters program.

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.

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.

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.

EDG 6920 Colloquium in Curriculum and Instruction (1-6). Selected readings, presentations and discussions on topics related to curriculum and instruction. Colloquia considers specific topics related to issues, trends and applications in the broad field of education. Prerequisite: Masters Degree.

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.

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.

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.

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.

EDG 7391 Seminar in Instructional Leadership (3). Review of 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.

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.

EDG 7938 Doctoral Seminar in Instructional Leadership (3). Advanced doctoral studies in current theories and research related to instructional leadership. Prerequisite: EDG 7391.

EDG 7980 Doctoral Dissertation (3-9). Original contribution to knowledge in major field. Prerequisite: doctoral candidates.

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.

EDH 6925 Special Topics in Higher Education/Community College (1-6). Intensive development of selected competencies related to instructional curricular, staff development and/or administrative skills of special interest to students in higher education and community college. Prerequisite: Permission of instructor.

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.

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.

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.

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.

EDH 7307 Higher Education: Instructional Methods (4). This course will develop development of and skill in using higher education instructional methods, such as lecture, discussion, demonstration, TV instruction, and computer assisted instruction.

EDH 7980 Doctoral Dissertation, Community College Teaching (6-9). Research for doctoral dissertation. Prerequisites: Advancement to candidacy in the doctoral program and competition of all other doctoral requirements. Course may be repeated as needed.

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. Emphasis on the broad range of educational processes.


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.

EDS 6115 School Personnel Management (3). Focus is on skills needed for exercising leadership in school personnel selection, evaluation, and development.

EEC 5906 Directed Study in Early Childhood Education (1-3). Available to undergraduates and grad students studying early childhood education. Provides for independent investigation in the area of early childhood education. Permission of instructor required.

EEC 5926 Special Topics in Early Childhood Education (3). Available to undergraduates and grad 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.

EEC 6213 Assessment and Intervention with Handicapped Young Children: Birth to Five Years (3). Presents an ecological approach to assessment of young handicapped children. Formal/informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisites: EEC 6017; EEX 3010 or EEX 6051 recommended. Corequisite: EEC 6485.

EEC 6261 Education Programs for Younger Children (3). Required in masters program in early childhood education. Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research.

EEC 6455 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaching approaches for infants, toddlers, preschool, handicapped, and at risk children. Prerequisites: EEC 6017; EEX 3010 or EEX 6051 recommended.


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; EEX 3010 or EEX 6051 recommended.


EEC 6948 Supervised Experience in Early Childhood Education (3-9). Available to grad early childhood education majors. Provides field work in educational institutions and organizations involved in childcare and early childhood education. Prerequisite: Permission of instructor.

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.

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. Prerequisite: EED 4227 or permission of instructor.

EED 6250 Ecological Intervention Strategies for Emotionally Handicapped (3). Designed to have the graduate student apply an ecological framework in addition to educational principles with children and youth with behavior disorders.

EEC 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: EEX 3010 or EEE 6051.

EEC 6051 Exceptional Children and Youth (3). Significant concepts in relation to the educational needs of exceptional children and youth.

EEC 6060 Curriculum Planning and Development in Special Education (3). Historical and theoretical bases for designing, developing, adapting and evaluating curriculum for individuals with disabilities. Prerequisites: EEX 5481, EEX 6912.

EEC 6065 Educational Programs for Secondary Level Exceptional Students (3). Considers philosophies and models of special education programs for students with mild handicaps. Emphasis is given to instructional methodologies in content areas and identification of transition resources. Prerequisites: MAE 6336, RED 6336, SCE 6635, SSE 6633.

EEC 6072 Mainstreaming Exceptional Children: Issues and Techniques (3). Awareness of issues underlying the movement to mainstream mildly handicapped students. Techniques and procedures for effective mainstreaming of these students.

EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills (3). Concepts in acquisition and development of language and reading skills.

EEX 6203 Advanced Psychological/Sociological Aspects of Exceptionality (3). Advanced psychological and social aspects of handicapping conditions in relationship to classroom behavior and community functioning.

EEX 6208 Medical Aspects of Disability (3). Medical etiology and remediation of disability. Includes genetic, biochemical, nutritional, and physical agents in retardation, learning handicaps, and emotional illness. Prerequisite: EEX 3020 or equivalent.

EEX 6211 Assessment of Learning and Behavior (3). Presents a model for assessing the skills and abilities of exceptional students. Emphasis is on administration, scoring, and interpretation of a variety of standardized tests, and communication of results in written reports and oral presentations. Prerequisites: EEX 3221 or equivalent.

EEX 6213 Assessment and Interventions with Handicapped Young Children: Birth to Five Years (3). Presents an ecological approach to assessment of young handicapped children. Formal/Informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisite: EEX 6017, EEX 3010 or EEE 6051. Corequisites: EEX 6455.

EEX 6227 Diagnostic Teaching: Educational Assessment (3). Presents a model for assessing the academic skills of exceptional students. Emphasis is on the use of standardized tests and the development of curriculum-based assessments.

EEX 6236 Characteristics of Physically Impaired and Profoundly Handicapped Individuals (3). Characteristics of physically impaired, health impaired, and profoundly handicapped including autism. Medical etiology, assessment techniques, program planning for student and family. Prerequisite: Graduate level status.

EEX 6250 Reading for Exceptional Students (3). Provides teachers with knowledge of specific developmental, remedial reading, and language arts strategies. Assessment and implementation models that can be used with exceptional student populations.

EEX 6417 Guidance and Counseling of Gifted Students (3). Affective development, parental involvement, counseling theories, underachieving gifted.

EEX 6455 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curriculum, methods, materials, intervention strategies, and teaching approaches for infants, toddlers, preschool, handicapped, and at-risk children. Prerequisites: EEX 6017, EEX 3010 or EEX 6051. Corequisite: EEX 6455.

EEX 6635 Seminar in Special Ed.: Supervision and Leadership (3). Problems in school administration and pattern of curriculum organization as they relate to the handicapped. Focus on conceptual framework, change factors and future trends in special education.

EEX 6771/HME 5255 Independent Living for the Handicapped (3). Explores personal living skills, employability and transitional skills for adulthood in relation to persons with mental, sensory and physical handicaps.

EEX 6846 Diagnostic Teaching: Advanced Practicum (3). Demonstration of diagnostic, curricular, instructional, multidisciplinary, and interpersonal objectives within a variety of field settings.

EEX 6862 Student Teaching (3). Culminating field experience in a program for Exceptional Students, demonstrating competencies learned throughout the program. Prerequisite: successful completion of all program requirements.

EEX 6863 Supervised Field Experience in Special Education (3-9). Demonstration of the full range of competencies in diagnostic teaching learned throughout the program. Internship placements include a variety of field settings.

EEX 6906 Directed Study in Special Education (1-6). Concepts or competencies contracted for by graduate students with an instructor.

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 the mentally retarded. The learn-
ing disabled and the emotionally disturbed. Prerequisite: Graduate level only.

EEX 6927 Special Topics In Special Education (1-6). Selected competencies in special education, developed in short-term, intensive workshops.

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 methodology components.

EEX 7980 Doctoral Dissertation (6-9). Original contribution to knowledge in major field. Prerequisite: Doctoral candidate.

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.

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.

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.

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.

ELA 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.

ELA 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.

ELA 5925 Special Topics In Technology Education (3). Selected topics related to instructional and technical areas.

ELA 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.

ELA 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology education at the national, state, and local levels.

ELG 6233 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. Prerequisite: ELG 4230 or permission of instructor.


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.

EME 5945 Special Topics In Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications.

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.

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.

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.

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.

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.

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.

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. Prerequisite: EMR 4251 or permission of instructor.


ESE 6947 Supervised Field Experience (3-9)(ARR). Field work in an educational institution or organization. Prerequisite: Consent of Chairperson of the Department.

EVG 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.

EVG 5168 Curriculum Development In Vocational Education (3). Knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization.

EVG 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.

EVG 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.

EVG 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."

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). Provides opportunity to expand/update the knowledge base of health care systems combining experiences in health care delivery systems with curriculum updating. Professional licensure and liability insurance required. May be repeated.

EVT 5369 Vocational Educational Media (3). Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts.

EVT 5650 Trends and Issues in Vocational Education (3). Knowledge of the basic philosophical and curricular trends and issues in vocational technical education at the international, national, state, and local levels.

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.

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.

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.

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.

EVT 5925 Special Topics in Vocational Education (1-6). Selected competencies related to instructional and technical areas.

EVT 5927 Special Topics in Health Occupations Education (1-3). Selected topics related to instructional and technical areas.

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.

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.

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.

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.

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.

EVT 6925 Special Topics in Vocational Education (1-6). Selected topics related to professional and program areas.

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.

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.

EVT 6947 Internship in Vocational Education (3). Knowledge and skill in a new leadership setting, relative to the student's selected area of emphasis.


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.

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.

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 also will be addressed.

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.

FLE 5945 Supervised Teaching; Modern Languages (5). 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.

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.

FLE 6925 Special Topics in Second Language Education (1-3)(ARR). Production and application of materi-
als and techniques in second language education in a laboratory or field setting.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

HEE 6915 Research in Home Economics Education (3). Analysis and application of research pertaining to philosophy, curriculum, evaluation, and teacher education in home economics. Subject to approval of program advisor.

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.

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.

HES 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings.

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.

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.

HSC 5455 Basic Driver Education (3). Content includes knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement.

HSC 5456 Advanced Driver Education (3). Content includes advanced skills for the teaching of driver's education. Prerequisite: HSC 5455.

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.

LAE 5115 Children's Literature (3). Available to undergrad and grad 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.

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.

LAE 5927 Special Topics in Language Arts (3). Available to undergrad and grad education majors. Provides opportunities to develop skills and knowledge of reading/language arts instruction. Permission of instructor required.

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.

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.

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.

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.

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. Carequisite: English major or equivalent.

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.

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.

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.

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.

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.

LEI 5595 Seminar In Parks and Recreation Management (3). A discussion of current problems, issues, and trends in administration of parks and recreation programs.

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.

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.

LEI 5719 Client Assessment, Evaluation and Documentation In T.R. (3). The course addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands.

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.

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.

LEI 6725 Administrative Aspects of Therapeutic Recreation (3). An indepth examination of issues related to the roles and responsibilities of the Activity Therapists/Therapeutic Recreation Administrators.

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.

LEI 6727 Disabling Conditions In Therapeutic Activity Services Administration (3). Indepth review of disabling conditions for the development of in-service training in recreational therapy and adapted activity services.

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.

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.


MAE 5516 Diagnosis and Remediation In Mathematics (3). Available to undergrad and grad 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.

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.

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.

MAE 5923 Special Topics In Elementary Math Education (3). Available to undergrad and grad education majors. Provides opportunities to produce and apply materials and strategies in math ed in elem and middle schools.

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.

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.

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.

MAE 6336 Teaching Mathematics In the Secondary School (3). Analysis of methods, programs, and materi-
s for teaching mathematics in the middle and senior high school, and development of teaching skills. Prerequisits: Undergraduate secondary math methods and permission of instructor.


MAE 6899 Seminar in Mathematics Education (3). Designed to provide the advanced student with deeper understanding related to mathematics education.

MHS 5350 Educational-Vocational Counseling (3). Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and sociopsychological influences on career development.

MHS 5400 Introduction to Counseling (3). Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling.

MHS 6200 Measurement and Appraisal in Counseling (3). Concepts and skills related to the use of tests and other appraisal procedures in counseling. Particular emphasis on career and vocational choice processes. Laboratory experiences included.

MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education (3). Concepts and skills in using behavior modification, contingency contracting, cognitive behavior management, self-instructional training, problem solving skills and parent and/or teacher consultation.

MHS 6411 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 5460 or equivalent.

MHS 6428 Counseling the Culturally Different (3). Concepts and skills in- volved in counseling clients with backgrounds different from the majority culture. Prerequisite: MHS 5350.

MHS 6500 Theories in Group Dynamics (3). Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: MHS 5350, MHS 6513.

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.

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.

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.

MHS 6513 Human Interaction I: Group Process and Social Behavior (3). Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

MHS 6514 Human Interaction II: Analysis of Group Participation (3). Participation in an 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.

MHS 6515C 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.

MHS 6629 Human Interaction III: Organizational Consultation (3). Theoretical concepts and skills in organizational development and change. Competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decision-making, and feedback. Prerequisite: MHS 6513, MHS 6514.

MHS 6630 Program Evaluation in Counseling & School Psychology (3). Evaluation skills in the student’s area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

MHS 6700 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.

MHS 6800 Advanced Practicum in Counseling (3). Advanced competencies in counseling and consultation. Prerequisites: Coursework completion.

MHS 6820 Supervised Field Experience in Counseling (1-6). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings.

MUS 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.

MHS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Special topics in relation to counseling or school psychology.

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education.

MUE 5928 Special Topics in Music Education (2). Applications of materials and techniques in music in a laboratory or field setting.

MUE 5945 Supervised Teaching: Music Education (6). Supervised teaching. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite coursework in education and the subject matter area.

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.
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.

MUE 6345 The Methodology and Analysis of Music Teaching (3): A data based analysis of methods and programs in the public schools and the development of music pedagogy skills. Reviews current research findings and applies them where applicable to the field of Music Education. Required for the Masters Degree. Prerequisite: Undergraduate Degree.

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.

MUE 6815 The Acoustical and Psychological Foundations of Music (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.

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.

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.

PET 5115 Fitness Instructor (3). The course prepares the student for the American College of Sports Medicine's Fitness Instructor Certification examination. Prerequisite: PET 3351.

PET 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.

PET 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.

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-social development.

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.

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.

PET 5256 Sociology of Sport (3). Students will be introduced to basic principles of the sociological bases of sport and physical activity.

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.

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.

PET 5625 Sports Medicine (3). Advanced conditioning techniques, strength and cardiovascular endurance training are presented. The prevention and treatment of overuse injuries are also emphasized. Prerequisite: PET 3351.

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.

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.

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.

PET 5931 Special Topics In Exercise Physiology (1-3). Designed to present contemporary issues and practices in exercise physiology. Prerequisite: PET 3350.

PET 5936 Special Topics In Physical Education (1-3). Designed to present contemporary issues and practices in physical education and sport.

PET 6597 Survey of Research In Physical Education (3). Methods and techniques used in research in physical education. Emphasis on effective use of resources and writing techniques.

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.

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.

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.

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.

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.

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.

RED 5447 Analysis and Production Reading Materials (3). Elective in graduate program in reading education. Exploration, creation, and evaluation of basic reading materi-
als, commercial and non-commercial. Prerequisite: RED 4150 or equivalent.

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.

RED 5911 Directed Study in Reading Education (1-3). Elective in reading education. Directed study in area of reading instruction. Permission of instructor required.

RED 5925 Special Topics in Reading Education (3). Elective in master's program in reading education. Study in a specified area of reading education.

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.

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.

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.

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.

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.

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.

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. Prerequisites: EDF 5481.

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.

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.

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.

RED 6932 Critical Issues in Reading Education (3). Elective in Reading Education master's program. Explores topics in specific reading education.

RED 6971 Thesis in Reading Education (6). Required in thesis track of reading master's program. Design, implementation, and written report of original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor.

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.

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.

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.

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.

SCE 5930 Special Topics in Elementary Science Education (3). Available for undergrad and grad education majors. Provides knowledge and skills, content, strategies and materials for teaching elementary science. Permission of instructor required.

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.

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.

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.

SCE 6306 Instruction in Early Childhood Science (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: SCE 4310 or permission of instructor.

SCE 6315 Instruction in Elementary Science (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: SCE 4310 or permission of instructor.

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.

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.
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.

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.

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.


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.

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.

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.

SDS 6784 School Law for Student Service Workers (3). Overview of current legal issues and problems for school counselors, psychologists and social workers.

SDS 6800 Advanced Practicum in Counseling (3). Advanced competencies in counseling and consultation. Prerequisites: Coursework completion.

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.

SDS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Special topics in relation to counseling or school psychology.


SPS 6192L Psycho-Educational Assessment II: Lab (2). Practical skills in the assessment of psycho-educational processes in children. Emphasis on assessing disorders in the visual, auditory, haptic, language, and sensory integration areas. Corequisites SPS 6191, SPS 6191L.

SPS 6193 Psycho-Educational Assessment III: Behavioral (3). Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisite: SPS 6193L. Prerequisites: SPS 6191, SPS 6192.

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192.

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.

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.

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.

SSE 5929 Workshop in Elementary Social Studies Education (3). Available to undergrad and grad education majors. Provides knowledge and skills, content, strategies and materials for teaching social studies. Permission of instructor required.

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.

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.

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.

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.

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.

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. Prerequisites: EDF 5481. Corequisites: EDF 6486, EDF 6403 or EDF 6475.

SSE 6924 Workshop in Content, Method, and Materials of Teaching Social Studies (1-3). Focus on con-
tent, methods, and materials needed for teaching social studies in the elementary school, K-6.

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.

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.

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.

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).

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.

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.

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.

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.

<table>
<thead>
<tr>
<th>College of Education</th>
<th>Dean</th>
<th>I. Ira Goldenberg</th>
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<tr>
<td>Associate Dean Academic Affairs</td>
<td>Robert Vos</td>
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<tr>
<td>Associate Dean Student and Community Services</td>
<td>M. A. Bilbao</td>
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<td>Assistant Dean Budget and Grants Administration</td>
<td>Carmen Mendez</td>
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Chairpersons
- Educational Leadership, and Policy Studies: Kingsley Banya
- Educational Psychology and Special Education: Donald C. Smith
- Health Physical Education and Recreation: Robert M. Wolff
- Middle, Secondary, and Vocational Education: A. Dean Hauenstein
- Elementary Education: George E. O'Brien
- Educational Foundations and Professional Studies: John A. Carpenter

Coordinators/Directors
- Coordinator of Doctoral Programs: Robert Vos
- Director of Internship and Student Teaching: Karyl Boynton
- Director of Student Services: Susan H. Lynch
- Coordinator of Student Services: María Vazquez-Syms

Faculty
- Alvarez, Carlos, M., Ph.D. (University of Florida), Associate Professor, International Development Education, Educational Psychology, Educational Foundations and Professional Studies
- Badia, Arnhilda, Ph.D. (University of North Carolina, Chapel Hill), Associate Professor, Modern Languages Education, Middle, Secondary, and Vocational Education
- Banya, Kingsley, Ph.D. (University of Toronto), Associate Professor and Chairperson, Curriculum and Instruction, Educational Leadership and Policy Studies
- Barbetta, Patricia, Ph.D. (Ohio State University), Assistant Professor, Special Education for the Emotionally Handicapped, Educational Psychology and Special Education
- Bath, John B., Ph.D. (Syracuse University), Assistant Professor, Elementary Mathematics and Science Education, Elementary Education
- Bilbao, María A., M.A. (University of Miami), Associate Dean, Elementary Education, Early Childhood Education
- Blitzer, Laura, Ph.D. (University of Georgia), Assistant Professor, Secondary Physical Education, Health, Physical Education and Recreation
- Boynton, Karyl, M.A. (University of North Florida), Director of Internship and Student Teaching
- Blucker, Judith A., Ph.D. (Florida State University), Professor, Health and Physical Education, Curriculum and Instruction, and Executive Vice Provost
- Brady, Michael P., Ph.D. (George Peabody College, Vanderbilt University), Professor, Special Education, Educational Psychology and Special Education
- Campbell, Richard, Ed.D. (Indiana University), Professor, Science Education, Elementary Education, Dean of Graduate Studies
- Carpenter, John A., Ph.D. (University of Southern California), Professor, Educational Foundations, International Development Education, Educational Foundations and Professional Studies
- Chang, David Y., M.F.A., MS (Florida International University), Associate Professor, Art Education, Middle, Secondary, and Vocational Education
- Cheyne, Wendy, Ed.D. (University of Miami), Associate Professor, Special Education for Learning Disabilities, Educational Psychology and Special Education
- Cistonc, Peter J., Ph.D. (Pennsylvania State University), Professor, Educational Leadership, Educational Leadership and Policy Studies
- Cook, Joseph B., Ed.D. (University of Florida), Professor, Community College Teaching, Educational Leadership and Policy Studies
- Crabtree, Myrna P., Ed.D. (Teachers College, Columbia University), Professor, Home Economics Education, Middle, Secondary, and Vocational Education
- DeFrancesco, Charalene, Ph.D. (Florida State University), Assistant Professor, Movement Science,
Health Physical Education and Recreation

D'Vita, Charles, Jr., Ph.D. (Florida State University), Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies


Escotet, Miguel-Angel A., Ph.D. (University of Nebraska), Professor, International and Intercultural Development Education and Research, Educational Foundations and Professional Studies

Evans, Anna M., Ph.D. (Iowa State University), Assistant Professor, Social Studies Education, Global Education, Middle, Secondary, and Vocational Education

Farin, Stephen M., Ed.D. (Teachers College, Columbia University), Professor, Curriculum and Instruction, Educational Leadership and Policy Studies

Farouk, Mohammed, Ed.D. (West Virginia University), Assistant Professor, Social Studies Education, Elementary Education

Farrell, Robert V., Ph.D. (Teachers College, Columbia University), Associate Professor, Social Foundations of Education, Educational Foundations and Professional Studies

Feldman, Rosa Castro, Ph.D. (University of Miami), Associate Professor, Educational Foundations, Bilingual Education/TESOL, Foundations: Urban, Multicultural, International Education

Fine, Joyce, Ed.D. (Florida International University), Assistant Professor, Reading and Language Arts Education, Elementary Education

Fisher, Allen, Ph.D. (University of Connecticut), Associate Professor, Educational Leadership, Educational Leadership and Policy Studies

Gallagher, Jo D., Ph.D. (Florida State University), Assistant Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor, Educational Research, Educational Leadership and Policy Studies, and Vice President for North Miami Campus

Govilan, Marisol, Ed.D. (University of Tennessee), Associate Professor, Educational Psychology and Bilingual Education/TESOL, Educational Psychology and Special Education

Gove, Lorraine R., Ph.D. (Florida State University), Professor, Educational Research, Educational Leadership and Policy Studies

Gerrlick, Mary M., Ph.D. (Loyola University-Chicago), Instructor, Elementary Education

Goldenberg, I. Ira, Ph.D. (University of Connecticut), Professor, Urban, Multicultural and Community Education and Dean, Educational Foundations and Professional Studies

Greenberg, Barry, Ph.D. (New York University), Professor, Educational Research and Community College Teaching, Educational Leadership and Policy Studies

Grosse, Christine Uber, Ph.D. (University of North Carolina, Chapel Hill), Associate Professor, TESOL, Educational Foundations and Professional Studies

Hammons, Frank T., Ed.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Vocational Industrial Education, Middle, Secondary, and Vocational Education

Hauenstein, A. Dean, Ph.D. (Ohio State University), Professor and Chairperson, Technology Education, Vocational Education, Middle, Secondary, and Vocational Education

Jang, Zhonghong, Ed.D. (University of Georgia), Mathematics Education and Computer Education, Middle, Secondary, and Vocational Education

Kaplan, E. Joseph, Ph.D. (Florida State University), Assistant Professor, Foundations of Education, Educational Foundations and Professional Studies

Kincheloe, Joe L., Ph.D. (University of Tennessee), Professor, Educational Foundations and Cultural Studies, Educational Foundations and Professional Studies

Kossack, Sharon Wall, Ph.D. (University of Georgia), Professor, Reading and Language Arts Education, Elementary Education

Lazarus, Phillip J., Ph.D. (University of Florida), Associate Professor, Educational Psychology and School Psychology, Educational Psychology and Special Education

Lee, Youngkil, Ph.D. (University of Oregon), Assistant Professor, Recreational Therapy, Parks and Recreation, Health, Physical Education, and Recreation

Lopez, Richard, Ed.D. (Florida Atlantic University), Associate Professor, Exercise Physiology, Health, Physical Education, and Recreation

Lucky, Luretha, Ed.D. (Arizona State University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education

Lynch, Susan H., M.S. (Florida State University), Early Childhood Education, Director of Student Services

Marshall, Nancy, Ph.D. (Cornell University), Associate Professor, Reading and Language Arts Education, Elementary Education

Martinez-Perez, Luís A., Ph.D. (Florida State University), Associate Professor, Science Education, Middle, Secondary, and Vocational Education

Mathewson, Grover, Ph.D. (University of California at Berkeley), Associate Professor, Reading and Language Arts Education, Elementary Education

McClimack, C. Edwin, Ed.D. (University of Georgia), Professor, Mathematics Education and Computer Education, Middle, Secondary, and Vocational Education

Mendez, Carmen, M.P.A. (Florida International University), Public Administration, and Assistant Dean for Budget and Grants Administration

Mendoza, Alicia, Ed.D. (University of Miami), Associate Professor, Early Childhood Education, Elementary Education

Miller, Lynne, Ph.D. (University of Arizona), Assistant Professor, Reading and Language Arts, Elementary Education

Mohamed, Dominic A., Ph.D. (University of Minnesota), Associate Professor, Vocational Administration and Supervision and Vocational Education, Middle, Secondary, and Vocational Education

Morrison, George S., Ed.D. (University of Pittsburgh), Professor, Early
Childhood Education, Elementary Education

Nathanson, David E., Ph.D. (University of Minnesota), Professor, Special Education for the Gifted/Mental Retardation, Educational Psychology and Special Education

Novoa, Loriano M., Ed.D. (Harvard University), Assistant Professor, Special Education, Educational Research, Educational Leadership and Policy Studies

O'Brien, George E., Ph.D. (University of Iowa), Associate Professor and Chairperson, Science Education, and Elementary Education

Pankowski, Mary L., Ph.D. (Florida State University), Professor, Adult Education, Educational Leadership and Policy Studies and Vice President North Miami Campus and University Outreach

Pell, Sarah W. J., Ed.D. (Duke University), Associate Professor, Educational Leadership, Educational Leadership, and Policy Studies

Pennington, Clem, Ed.D. (Pennsylvania State University), Associate Professor, Art Education, Middle, Secondary, and Vocational Education

Phelps, Janice L., Ph.D. (University of Connecticut, Storrs), Assistant Professor, Educational Psychology and Community Mental Health Counseling, Educational Psychology and Special Education

Pugh, Steven, Ph.D. (Florida State University), Assistant Professor, Physical Education, Health, Physical Education and Recreation

Reichbach, Edward M., Ed.D. (Wayne State University), Associate Professor, Elementary Education, Elementary Education

Ritzl, William M., M.S. (Florida International University), Instructor, Elementary Education

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 Foundations and Professional Studies

Sandford, Janice R., Ph.D. (Ohio State University), Associate Professor, Health Occupations Education and Computer Education, Middle, Secondary, and Vocational Education

Shostak, Robert, Ph.D. (University of Connecticut), Professor, Computer Education, Middle, Secondary, and Vocational Education

Skalko, Thomas, Ph.D., C.T.R.S. (University of Maryland), Associate Professor, Therapeutic Recreation, Health, Physical Education and Recreation

Skaruppa, Cindy L., Ed.D. (University of Miami), Assistant Professor, Educational Psychology and Special Education, Educational Psychology and Special Education

Slater, Judith J., Ed.D. (University of Florida), Assistant Professor, Curriculum and Instruction, Educational Leadership and Policy Studies

Smith, Donald C., Ph.D. (Syracuse University), Professor, Educational Psychology, School Psychology, Counselor Education and Chairperson, Educational Psychology and Special Education

Smith, Douglas H., Ph.D. (Ohio State University), Associate Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Soll, Catherine A., M.S. Ed. (Nova University), Instructor, Elementary Education

Soon, Yee P., Ph.D. (Florida State University), Assistant Professor, Mathematics Education, Elementary Education

Spears-Bunton, Linda, Ed.D. (University of Kentucky), Assistant Professor, English Education, Middle Secondary, and Vocational Education

Strichman, Stephen S., Ph.D. (Yeshiva University), Professor, Special Education for Learning Disabilities, Educational Psychology and Special Education

Tesla, Robert F., Ph.D. (University of Miami), Associate Professor, Music Education, Elementary Education

Toomer, Jethro, Ph.D. (Temple University), Professor, Educational Psychology and Community Mental Health Counseling, Educational Psychology and Special Education

Tucker, Jan L., Ph.D. (Indiana University), Professor, Social Studies Education and Global Education, Middle, Secondary, and Vocational Education

Vos, Robert, Ed.D. (Rutgers University), Associate Professor and Associate Dean, Organizational Training, and Vocational Education, Middle, Secondary, and Vocational Education

Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, Middle, Secondary, and Vocational Education

Wolf, 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 Professional Studies

Zaragoza, Nina, Ph.D., (University of Miami), Assistant Professor, Early Childhood Special Education, Educational Psychology and Special Education
College of Engineering and Design
College of Engineering and Design

Gordon R. Hopkins, Dean
Iraj E. Majzub, Associate Dean
Gustavo A. Rolg, Associate Dean
Lourdes A. Meneses, 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.

A Doctoral Degree can be earned in the field of Electrical 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
- Industrial and Systems 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 with 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, micro-electronics, structural systems, biotechnology, etc.

School of Engineering

Doctor of Philosophy

The School offers a Doctor of Philosophy degree in Electrical Engineering. A Doctor of Philosophy degree in Mechanical Engineering is being developed. It is anticipated to begin fall 1994, pending Board of Regents approval. Interested students should contact the department of Mechanical Engineering for more information. 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.

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 IFIS.

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; and 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.
Civil and Environmental Engineering

L. David Shen, P.E. Associate Professor and Chairperson
Vino Fioris, Courtesy Professor
Hector R. Fuentes, P.E. Associate Professor
Dongzhou Huang, Visiting Research Associate
Sylvan C. Jollibols, Jr., Assistant Professor
Luis A. Prieto-Porcar, P.E. Professor
Wolfgang F. Rogge, Assistant Professor
Lambert Tail, P.E. Professor
Zonghong Tang, Assistant Professor
Berrin Tansel, P.E. Assistant Professor
LeRoy E. Thompson, P.E. Professor
Vassilicos A. Tsihlintzis, P.E. Assistant Professor
Oktay Ural, P.E. Professor
Ton-Lo Wang, P.E. Associate Professor
Yihsia Xiong, Assistant Professor
Fang Zhao, Assistant Professor

Lehman Center for Transportation Research

L. David Shen, Director
Yvette Aleman, Research Associate
Nil O. Attho-Okin, Research Associate
Jian Huang, Research Associate
Young-Kyun Lee, Research Associate
Diana I. Ospina, Research Associate

The Department of Civil and Environmental Engineering offers advanced study for the degree of Master of Science. The areas of specialty are Structures, Mechanics, Geotechnical, Construction, Transportation, Water Resources, and Environmental Engineering. The degree will be a Master of Science in Civil Engineering or a Master of Science in Environmental Engineering depending upon the area of selected graduate study.

Master of Science in Civil Engineering

The Master of Science program in Civil Engineering emphasizes coursework as well as research. The student is generally encouraged to specialize in a defined area of civil engineering, but also find desirable to pursue a more general program of studies combining subject material from different areas of specialization and interdisciplinary related courses.

The graduate degree is offered to prepare qualified students for the professional practice of civil engineering. The degree is available in a thesis or non-thesis program. The thesis program entails a minimum of six credits for the successful completion of the research and thesis. The non-thesis program must be supported by the successful completion of a project and a report of substantial engineering content for a minimum of three credits. A student must satisfactorily complete a minimum of 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

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 an equivalent degree 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-6.09:
1. Eligible students may be accepted at the appropriate level subject to space and fiscal limitations.
2. In addition to University admission requirements, foreign students must meet the following requirements as a minimum:
   a. The applicant shall be academically eligible for further study in his or her own country.
   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 an engineering project.
6. Pass an oral examination which 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
      EES 5605 Noise Control Engineering
      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-Engineering, Mechanics; EGN-Engineering, General; ENV-Engineering, Environmental; TTE-Transportation and Traffic Engineering

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: 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.
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, CES 4011.

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 requirements of 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 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: EGN 3353 and ENV 3621.

CWR 617 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 zones, wells, pumping tests, quality/fatigue analysis, 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 chemically and biologically reacting solutes; tracer tests, hydrological approaches to remediation and monitoring. Prerequisites: CWR 6125, or permission of instructor.

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 5136 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 6506 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electromagnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6508 Occupational Health and Toxicology (3). A continuation of EES 6506. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 6506.
EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Maitre. Prerequisites: EGM 3520, EGM 5563

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 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of single and multi-degree of freedom structures, including damping of 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). An advanced course covering concepts of stress and strain tensors, indicatrix 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; thick plates; the Membrane theory of Shells; and the General Theory of Cylindrical Shells. Prerequisites: EGM 3520.

EGM 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, both communicable and non-communicable, injuries, and other interactions of humans with the environment. Prerequisite: Permission of 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 5105 or ENV 4101.

ENV 5126 Air Pollution Control (3). Air pollution control devices, principles, efficiencies, costs. Gas scrubbers, electrostatic precipitation, thermal deposition, filters, condensers, afterburners. 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). Theory and principles of technologies for treatment and disposal of hazardous waste. Procedures for remedial investigations and feasibility studies. Prerequisite: Hazardous Waste Assessment and Remediation or permission of the instructor.

ENV 5356 Solid Wastes (3). In-depth study of the solid waste problem. Topics include municipal, industrial, and agricultural generation of wastes; municipal collection systems; methods of disposal, hazardous wastes, and energetic considerations in the recovery and recycle of wastes.

ENV 5512 Water and Wastewater Analysis (3). Relevance of the main quality parameters and their measurements by wet chemistry and analytical equipment. Includes BOD, COD, TOC, CO, TSS, VSS, alkalinity, acidity, PH, hardness, ammonia, TKN, NOx, PO4, etc. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512.

ENV 5512L Water and Wastewater Analysis Laboratory (1). Experiments are conducted which measure gross organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, PH, nitrate, nitrates, 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 5659 Regional Planning Engineering (3). Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting; economic base analysis. Prereq-
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. 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 water and air systems. Prerequisite: Permission of instructor or prior completion of ENV 6510.

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 6615 Environmental Impact Assessment (3). An examination of alternatives techniques useful for analysis and environmental impacts of man's activities. Prerequisite: Permission of instructor and 24 graduate credits.

ENV 6916 Engineering Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the M.S. degree-project operation. Only three credits are applicable towards degree. Prerequisite: Completion of 20 graduate credits.

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 and urban systems.


ITE 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.

ITE 5107 Highway Safety Analysis (3). Accident reconstruction, intersection analysis, highway safety standards, speed estimations from skidding, momentum/energy relationships, human factors. Prerequisites: STA 3033, ITE 4201.

ITE 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: ITE 4201.

ITE 5215 Urban Traffic Characteristics (3). Speed and volume stud-
Electrical and Computer Engineering

James Story, Professor and Chairperson
Malek Adouadi, Assistant Professor
Jean Andrian, Associate Professor
Tadeusz Babij, Associate Professor
Manuel Cereljo, Professor
Mark Hagmann, Associate Professor
Malcolm Helmer, Associate Professor and Associate Chairperson
W. Kinzy Jones, Associate Professor
Grover Larkin, Associate Professor
Osama Mohammed, Professor
Dong Park, Assistant Professor
Gustavo Rolg, Associate Professor and Associate Dean
Laura Ruiz, Instructor and Advisor
Abdul Samia, Assistant Professor
Pierre Schmidt, Professor
Subbarao Wunnava, Professor
Frank Urban, Associate Professor
Carolyne Van Vilet, 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 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).

6. Successful defense of an acceptable graduate thesis if required of the program.

7. Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

8. Complied with all University policies and regulations.

Thesis Option

A student shall complete 36 semester credits of technical course work including a maximum of six semester credit hours and a minimum of three semester credit hours of EEL 6971 - Master's Thesis.

The Supervisory Committee shall determine the appropriate number of thesis hours a student shall be required to take for the thesis. Thus, 30 or more semester credits of course work are required.

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.

Non-Thesis Option

(By petition only)

A student shall complete 36 semester credit hours of technical course work with a maximum of six semester credit hours of Individual Work (EEL 6905). The course requirements include a minimum of 12 semester credit hours of 6000-level course credit and a minimum of 12 semes-
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 a minimum of 30 credits in engineering and computer science, plus six credits of thesis. 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 shall complete 36 semester credit hours of technical course work including a maximum of six semester credit hours and a minimum of three semester credit hours of EEL 6971, Master’s Thesis.

The Supervisory Committee shall determine the appropriate number of thesis hours the student shall be required to take for the thesis.

Upon the successful completion of all coursework, including the thesis work, and after the determination by the student’s advisor that he or she has completed the objectives set for the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research.

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 as required by the committee, each member of the committee will sign a special front page available in the department. Hardcover bound copies of the thesis should be submitted to the student’s advisor and to the Library.

Non-Thesis Option

(By petition only)

A student shall complete 36 semester credit hours of technical coursework, approved by his or her supervisory committee. 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 stu-
Graduate Computer Engineering Courses

EEL 5718  Computer Communication, Network Engineering
EEL 5725  Digital Systems Engineering I
EEL 5741  Advanced Microcomputer
EEL 6167  VLSI Design
EEL 6676  Digital Systems Engineering II
EEL 6675  Data Communications Engineering
EEL 6644  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 6621  Computer Vision

Electives Computer Science: (9)
Courses may be selected by student and advisor from 4000, 5000, and 6000 level Computer Science course listings.

The above lists may be changed or expanded by the supervisory committee.

Doctor of Philosophy in Electrical Engineering

Admission Requirements

The requirements for admission to the doctoral program in Electrical Engineering are:

1. Applicants having a Master’s degree in Electrical Engineering from an accredited institution must satisfy the following requirements for admission to the doctoral program:
   a. GPA of at least 3.3/4.0 in the master’s program
   b. GRE verbal plus quantitative 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 passing the written comprehensive examination.
4. Registration for EEL 7980 (Research for Doctoral Dissertation) is allowed only after the student is admitted to candidacy. Twenty-four dissertation hours are required.
5. At least 30 credit hours of 5000 or 6000 level electrical engineering courses are required. EEL 5935, 6905, 6912, 6932, 6971, 6977, and 7980 are not considered coursework for the purpose of this 30 credit hours requirement.
6. Fifty percent of the hours accumulated have to be at the 6000 and 7000 level (including EEL 7980).

Residency Requirements

The Ph.D. student must spend at least one academic year in full-time residency. Usually, this will be after being admitted to Candidacy. To satisfy the residency requirement for a Ph.D. E.E. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months in residency at the University.

Graduate Supervisory and Research Committee

The student’s Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and not later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Guidelines in the Department for more details on how to select the committee members.

Ph.D. Course Breadth Requirements

All potential Ph.D. candidates are required to take two two-course sequences for a total of 12 credits outside of their major area and receive a grade of “B” or better in each course. The appropriate areas of study are determined by the dissertation advisor. The student must submit to the Graduate Coordinator the sequences selected when he or she signs up for the written part of the Ph.D. E.E. Comprehensive Examination.

Written Comprehensive Examination

To be eligible for the written comprehensive examination, the student must have satisfied the Ph.D. course breadth requirements in his or her area of specialization and in two other areas. Those students admitted into the Ph.D. program with an MSE degree must take this exam before completion of 28 graduate credit hours of course work. Failure to do this is causation for dismissal from the Ph.D. program.

The student must pass all three areas of the examination. Failing one area implies failure of the entire examination. The exam must be retaken the next time it is offered. Failing a second time is causation for dismissal from the Ph.D. program.

Consult the Graduate Guidelines available in the Department for details on examination procedures, dates, duration, application and grading criteria.

Oral Candidacy Examination:

To take the oral part of the candidacy examination, a student must be in good academic standing at the University, the Research Committee must certify that the student is capable of completing all required course work for the degree by the end of the semester in which the candidacy examination is taken and must have passed the written comprehensive examination.
This exam is usually taken within one year after the satisfactory completion of the written comprehensive examination and consists on the presentation and defense of the student's written research proposal.

**Admission to Candidacy**
Candidacy status indicates that a doctoral student is ready to commence writing the dissertation. A student is admitted to candidacy upon successfully completing all required 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 general guidelines in the "Regulations for Thesis and Dissertation Preparation". A student must meet requirements for dissertation credits in the semester in which he or she expects to be admitted to candidacy, and must maintain continuous enrollment for at least 3 credits of EEL 7998 every semester, including Summers, until the semester in which the doctoral degree is awarded. Upon completion of the dissertation, the graduate candidate will submit to the Dean of Graduate Studies an application for dissertation defense signed by the student's Advisory Committee with sufficient time to allow for publishing a notice in the monthly calendar of dissertation and thesis 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 conductions in tissue and the nervous system as an electrical network. Prerequisite: EEL 4202 or permission of instructor.

**EEL 5075 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 transducers. 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. Prerequisite: 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 4764 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 implementations in 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: medical 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 6114 Advanced Network Analysis (3). Modeling and analysis of networks by s-domain and s-domain techniques. Topics include topology, formulation of loop equations and node pair equations, state-space networks, 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 array processors, and implementation of array processors. Prerequisites: EEL 5741, EEL 4314.

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 solved 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 5303, EEL 3657.

EEL 6253 Computer Analysis of Power Systems (3). Power systems analysis and designs by computer solutions. Interactive solutions, power flow, optimum solutions, dynamic solutions and stability. Prerequisite: EEL 4215 or permission of instructor.

EEL 6254 Power Systems Reliability (3). Expansion planning, load forecasting, reliability and availability application to generation planning, bulk power supply system, 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 network. 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, IFL, CCD, bubble technology. Ion implantation; device technology. Prerequisite: EEL 3395, EEL 4304 or permission of instructor.

EEL 6332 Thin Film Engineering (3). Thin films used in microelectronics and optoelectronics; deposition methods; evaluation of film structure; 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 at low, intermediate and high frequency. 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 6397 Semiconductor Device Theory (3). Device physics and modeling of GaAs FETs, GaAs analog and digital integrated circuits. Modulation doped field effect transistors. Heterojunction bipolar transistor theory. Prerequisite: EEL 3396.

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 Electro-Optical Devices and Systems (3). Introduction to optical devices and systems such as solid state laser systems, their applications in industry. Also holography, linear and non-linear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEL 4314. Corequisite: EEL 5563 or permission of instructor.

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic waveguide, optical devices, sources, photodetector, 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 5563 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 ADA 4400.

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDL, RTX, Real time switching techniques. Microprocessor based network topologies. Busing schemes such as VME, MULTIBUS. 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 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 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.

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Industrial and Systems Engineering

Shih-Ming Lee, Associate Professor, Acting Chairperson
Martha Centeno, Assistant Professor
Chin-Sheng Chen, Associate Professor
Joe Chow, Associate Professor
Khoklal Kengskool, Associate Professor

Menberu Lulu, Associate Professor
Sergio Martinez, Instructor
German Nunez, Associate Professor
Marc Resnick, Assistant Professor
Fredrick Swift, Professor

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. The Department offers both thesis and non-thesis options for the Master's Degree. The thesis option entails a minimum of six credits for the successful completion of the research and thesis. The non-thesis option must be supported by the successful completion of a project and a report documenting the engineering effort.

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 admissions. Industrial experience and special research will be considered.
4. Foreign students must take the test of English as a foreign language (TOEFL) and obtain a score of 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.

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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.

Course requirements

All MSIE degree seeking students must take EIN 6932 Graduate Seminar, and at least three courses in the following areas to satisfy the MSIE breadth requirement:

- EIN 5332 Quality Engineering
- ESI 6316 Applications of DR in Manufacturing
- EIN 6248 Advanced Ergonomics
- EIN 6319 Advanced Work Design
- EIN 6392 Advanced Manufacturing Process Engineering
- EIN 6357 Advanced Engineering Economy
- EIN 5359 Industrial Financial Decisions

Students must also take an additional 27 hours as prescribed by their advisor.

Available areas of concentration

- Integrated Manufacturing
- Human Factors
- Engineering Management

Thesis/Project Exemption

A MSIE student may submit a petition for waiving the thesis/project requirement. The petition must be submitted to the Graduate Studies Committee. Upon approval of the petition, the candidate is required to pass a comprehensive final examination. The exam will be administered by the Graduate Studies committee.

Industrial Engineering Electives

- EIN 5332 Quality Engineering
- EIN 5359 Industrial Financial Decisions
- EIN 5367 Design of Production Systems
- EIN 6117 Advanced Industrial Information Systems
- EIN 6249 Occupational Biomechanics
- EIN 6319 Advanced Work Design
- EIN 6345 Inventory Control Systems
- EIN 6357 Advanced Engineering Economy
- EIN 6392 Product Design for Manufacturability and Automation
Course Description

Description of Prefixes

EIN-Engineering, Industrial; ESI-Engineering Systems Industrial.

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.

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.

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.

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

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.

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.

EIN 6248 Advanced Ergonomics (3). Analysis of human factors in the design of engineering systems, with emphasis on the interface of man-machine-media and human limitations in relation to equipment design and work environments. Prerequisites: EIN 4314, EIN 4243, and PCB 3702 or equivalent.

EIN 6249 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.

EIN 6258 Ergonomic Design of Aerospace Systems (3). Application of ergonomic criteria in design of civil and military aircrafts cockpits and control systems. Ergonomic consideration in design of outer space vehicles, stations, and systems. Prerequisite: EIN 6248.

EIN 6319 Advanced Work Design (3). Study of the various human physiologic systems and their responses as it relates to occupational work including endurance, fatigue, recovery, and energy cost of work. Prerequisites: EIN 6248.

EIN 6345 Inventory Control Systems (3). Design of non-traditional inventory control systems. Development of several inventory system models. Exploration of methods of collecting appropriate demand and cost data for effective systems analysis. Prerequisite: ESI 3314.


EIN 6392 Product Design for Manufacturability and Automation (3). Overview and integration of the design-material-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395.

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 member. A study plan and final report are work required. Prerequisite: Departmental approval.

EIN 6916 Master's Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the MSIE degree project option. Only three credits are applicable towards the degree. Prerequisite: Departmental approval.

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.

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 student following the thesis option should work on his/her thesis through this course.
Mechanical Engineering

M. Ali Ebadian, Professor and Chairperson
Danny Bluestein, Visiting Professor
Yiding Cao, Assistant Professor
S. Chellalah, Assistant Professor
Genady Cherpanov, Professor
Zhifeng Dong, Visiting Assistant Professor
Mohammed El-Sayed, Associate Professor
Carmen Goldberg, Visiting Counselor/Advisor/Instructor
Gordon Hopkins, Professor and Dean
Wei Jiang, Research Associate
W. Kinzy Jones, Professor
Rene Leonard, Associate Professor
Cesar Levy, Associate Professor
Weigong Li, Visiting Assistant Professor
Norman Munroe, Assistant Professor
Mordechel Perl, Courtesy Professor
Zhongjie Pu, Visiting Professor
Luis Pujol, Associate Professor
Richard Schoephoerster, Assistant Professor
Ebrahim Shirzadnejad, Assistant Professor
Fredrick Swift, Professor
Ibrahim Tansel, 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 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. Attended one semester of the ME Graduate Seminar prior to graduation and give at least one presentation in the seminar.

9. Compiled 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 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 provided that courses have a letter grade of "B" or better. 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.

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.

**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 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 is 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 area 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 Physiologic Systems
- **3**

**Areas of Specialization**

- Air Conditioning and Refrigeration
- Bioengineering/Biomechanics
- Computer Aided Design
- Energy Systems
- Finite Element Analysis
- Fluid Mechanics
- Fracture Mechanics
- Heat Transfer
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 Materials Engineering 3

EMA 6127C Advanced Physical and Mechanical Metallurgy 3

EMA 6165C Polymer Physics and Analytical Techniques 3

EML 5103 Intermediate Thermodynamics 3

EML 5104 Classical Thermodynamics 3

EML 5125 Classical Dynamics 3

EML 5152 Intermediate Heat Transfer 3

EML 5385 Identification Techniques of Mechanical Systems 3

EML 5509 Mechanical Design Optimization 3

EML 5530 Intermediate CAD/CAE 3

EML 5562 Advanced Electronic Packaging 3

EML 5606C Advanced Refrigeration and Air Conditioning Systems 3

EML 5615C Computer Aided Design in Air Conditioning Systems 3

EML 5708 Advanced Design of Thermal and Fluid Systems 3

EML 5709 Intermediate Fluid Mechanics 3

EML 5825 Sensors and Applied Machine Intelligence 3

EML 6153C Advanced Heat Transfer 3

EML 6154 Conduction Heat Transfer 3

EML 6155 Convection Heat Transfer 3

EML 6157 Advanced Radiation Heat Transfer 3

EML 6223 Advanced Mechanical Vibrations Analysis 3

EML 6233 Fatigue and Failure Analysis 3

EML 6532 Advanced CAD/CAE 3

EML 6712C Advanced Fluid Mechanics 3

EML 6714 Advanced Gas Dynamics 3

EML 6725 Computational Fluid Dynamics 3

EML 6805 Advanced Design of Robots 3

EML 6908 Independent Studies 3

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 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 in cardiovascular and respiratory 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 measurement and the design of biomeasurement systems and devices. This includes transducers and electrocardiography, 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 prostheses 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 environ-
mental 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 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: EGN 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 planar 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 5604C 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 heat ventilation 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; selected exact and approximate equations. Prerequisite: EML 5126.

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 one and multi-dimensional systems. Radiation parameters affecting 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 nonlinear 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 5125.

EML 6532 Advanced Computer Aided Design/Computer Aided Engineering (3). Advanced CAD techniques in design of mechanical systems. Architecture of CAD sys-
tems including database applications. Advanced computational geometry student programming. Prerequisites: EML 5530.


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. Prerequisite: Advisor’s permission.

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**Engineering Professional Development**

Neil 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, a NASA regional technology transfer center, provides economic development services linking engineering schools, federal laboratories and manufacturers. NASA database searches are also available.


Satellite down-link for presentation of national seminars on topics relating to manufacturing engineering, quality management, and SBR proposals.

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**School of Design**

Leonardo Alvarez, Associate Professor and Director

Edward T. Baker, Assistant Professor

Juan A. Bueno, Associate Professor and Program Coordinator

Leonie Hermanlin, Visiting Assistant Professor

Iraj Majzub, Professor and Associate Dean

Robert Mitchell, Visiting Lecturer

**Master of Landscape Architecture**

The Graduate Program in Landscape Architecture is designed to prepare graduates for professional practice as well as advance the knowledge base of the field through research. By applying their understanding of the natural and cultural environments, landscape architects plan and design projects which range from gardens to regional space systems to national parks. Whether for public or private use, the landscape architect is concerned with the quality of relationships between people and their environment.

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 professionals undergraduate degree in a 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 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 and three months of full-time professional internship are normally required. However, a part-time study option is available subject to the review of the Program. Satisfactory completion of 90 credits in the following course of study is required.

Landscape Architectural Design 36
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 environment 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.

**Admission Policies**

A student seeking admission into the graduate program must have a bachelor’s degree 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.

**Additional Requirements:**

1. A 'B' average in upper level undergraduate work, and on 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.

Scholarships and Awards

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.

The Adele E. Smith Outstanding Student Award. Each year, upon nomination by the Program faculty, the School of Design gives this award to the outstanding graduating student.

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.

School of Design Awards. These awards are annually presented by the School, upon the recommendation of the Program faculty, to the students who have demonstrated outstanding achievement in scholarship, research, and design.

The Ernest and Virginia Makemson Memorial Endowed Scholarship Fund. This fund provides support for students who have demonstrated interest and experience in restoring and/or preserving Florida’s natural and cultural environment through the practice of landscape architecture and design.

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 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

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.

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

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.

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.

LAA 5371 Computer Practices in Design I (3). Introduction to computer applications and to computer utilization in Landscape Architecture. Explore both the potential and limitations of computer usage in the profession. Prerequisites: COC 3300 or equivalent and Program approval.

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 5335.

LAA 5425 Landscape Construction II (3). Production of complete set of landscape construction documents, including drawings and project manual with bidding documents, contract documents and technical specifications. Prerequisite: LAA 5424.

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.

LAA 5562 Interdisciplinary Design Studio I (6). Introduction to two- and three-dimensional representational techniques. Fundamental geometrical constructions, spatial theory, three-dimensional perception and color theory. Programmed designs are executed. Prerequisite: Program approval.

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.

LAA 5715 Architectural History and Theory (3). An overview of architectural history, from the beginnings of western architecture and urban design to the 20th century, including current trends. Program approval.

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.

LAA 6215 Landscape Architectural Practice (3). Topics to be covered include economic viability, organizational structures, work relationships, management systems, task definition, and computer applications. Prerequisite: LAA 5371.

LAA 6222 Landscape Architectural Communication (3). This course develops methods and techniques for effective communication of landscape planning and design values to the consumer. Prerequisite: Program approval.

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.

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.

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.

LAA 6382 Methods of Environmental Analysis (3). Primarily through case studies, this course will explore the methods available to the landscape architect for analyzing landscape data and applying the results to land management and environmental design. Prerequisites: LAA 5521.

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.

LAA 6545 Preservation of Landscape Architectural Design Studio II (6). Critical examination of the formation and preservation of cultural landscapes and urban places. Prerequisite: LAA 5653.

LAA 6555 Landscape Architectural Design Studio III (6). Planning and design studio on the issues of residential land use at a range of project scales. Emphasis on environmentally significant sites in tropical and subtropical landscapes. Prerequisite: LAA 5653.

LAA 6557 Interdisciplinary Design Studio II (6). Work on selected projects with graduate students in architecture, urban and regional planning and/or building construction. Prerequisite: LAA 6557.

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.

LAA 6915 Supervised Research (1-5). Each student must engage in supervised work under a principal investigator or upon 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.

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. Prerequisites: LAA 5371 and Program approval.

LAA 6935 Graduate Seminars (1-3). Prerequisite: Program approval.

LAA 6936 Special Topics (1-3). Prerequisite: Program approval.

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.

Construction Management

Jose D. Milrani, P.E., Associate Professor and Chairperson
Irshad Ahmad, Assistant Professor
Gabriel Auriolos, Associate Professor
Wilson C. Barnes, A.I.A., Assistant Professor and Coordinator, Broward Program
Bhaskar Chaudhri, P.E., Professor
John M. Dye, Instructor
Eugene D. Farmer, A.I.A., Assistant 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 Examination (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 that did not take the GRE or the GMAT for admission into the program must take either one no later than the beginning of the second semester into their 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 related fields” should include studies in construction drawings, construction materials and methods, construction accounting and finance, economic planning, structures, site work, 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 a 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 included in 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 them for the "P" or "F" (Pass or Fail) grade option and shall take them until they complete them with a grade of "P." (For graduate students taking undergraduate 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 masters degree program may be applied toward a second masters degree. These credits are applied only with the written approval of the Department Chairperson and the Dean of the College of Engineering and Design.

Transfer of Credit
Only graduate (5000 - 7999) level work to the extent of two courses, totaling six semester hours, earned with a grade of 'A,' 'B+', or 'B' may be transferred from another institution approved by the Department Chairperson and the Dean of the College of Engineering and Design, or from 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 credits 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 toward graduation. Students may take courses under the special student designation for one semester only.

General Regulations

Normal Loads
Students taking a minimum of 9 semester credit hours per semester are considered full time students at the graduate level. Students taking under 9 hours are considered part time and should be aware that certain university privileges and benefits may not be applicable to part time students. Students are not recommended to take excessive loads. Special exceptions may be made, at the option of the Department, in the case of students with a grade point average of 3.5 or greater. Students that meet this criteria wishing to take over 15 semester credit hours must have the approval of both the Chairperson of the Department and the Dean of the College of Engineering and Design, prior to registering for an overload.

Grades
The Department of Construction Management requires a minimum grade point average of 3.0 in all 5000 and 6000 level courses taken towards a masters degree. 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 have submitted a complete masters thesis, whose format, content, and presentation must be acceptable to and approved by his/her graduate advisor, supervisory committee, and Department Chairperson. The student must additionally have successfully passed his/her final examination (See Examination, above). Students should contact an advisor at least one semester prior to their projected graduation and request a review of his or her file. At the start of the final semester the student is required to complete and have his advisor approve an Application for Graduation, available from the Department. (See catalog for additional information on graduation procedures and scheduling.) If for any reason a student fails to graduate in the semester after ap-
plying 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.

BCN 5618 Fundamentals of Construction Estimating 3
BCN 5645 Construction Economic Analysis 3
BCN 5766 Codes and Regulations 3
BCN 5728 Principles of Construction Scheduling 3
BCN 5746 Construction Legal Environment 3
BCN 5406 Principle of Building Structures for Construction Management 3

Total core credits (maximum of 12 credits applicable towards degree).

Construction Management Electives

Balance of 36 credits to be taken from list below. 9 credits must be selected from courses marked with an asterisk (*). Thesis may take up to 6 credits of BCN 6971, and all students may take up to 6 credits of BCN 5905 (see note below).

BCN 5022 Housing for Developing Countries 3
*BCN 5626 Construction Cost Analysis & Control 3
BCN 5706 Interdisciplinary Aspects of Housing 3
*BCN 5716 Productivity in Construction 3
BCN 5735 Hazardous Materials & Waste in Construction 3
*BCN 5755 Construction Financial Management 3
*BCN 5771 Management & Marketing of Const. Services 3
BCN 5772 Management of Construction Organizations 3

*BCN 5784 Construction Information Services 3
BCN 5905 Directed Independent Studies 3
BCN 5906 Special Topics 3
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 (see note below)

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

Student programs of study in the graduate level program are carefully designed and sequenced following consultation with a graduate faculty advisor. Appropriate prerequisite 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 3

Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns.

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.

BCN 5626 Construction Cost Analysis and Control 3

Description of different types of estimating techniques in relation to different stages in a construction project. Productivity analysis, measurement of progress, and techniques of cost control are covered. Prerequisites: BCN 4612.

BCN 5645 Construction Economic Analysis 3

Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures.

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.

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.

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.

BCN 5755 Construction Accounting and Finance 3

Money management in construction operations: fi-
BCN 5766 Codes and Regulations (3). Study of building codes required by local, county, and state levels and their relation to quality control.

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 include: 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 Services (3). The application of information management techniques, including computer hardware and software systems, to the analysis and solution of typical problems in the practice of construction management.

BCN 5905 Directed Independent Studies (VAR). Individual studies under supervision of faculty, tutor, or advisor.

BCN 5906 Special Topics (VAR). Intensive study for small group of students in a particular topic, or a limited number of topics not otherwise offered in the curriculum.

BCN 6473 Systems Approach for Housing Planning (3). Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantage of systems approach. Case studies.

BCN 6642 Value Engineering in Construction (3). Relationship of costs to time and life cycle of construction projects, and methods to improve the economic value of construction projects.

BCN 6775 Decision and Risk Analysis in Construction (3). Techniques of decision analysis for the medium to top level management personnel in the construction industry. Typical construction-related problems that involve risk and uncertainty are studied. Prerequisites: STA 3132, BCN 3640, and BCN 4612.


BCN 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. Prerequisite: 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 6716.

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

Laurie L. Richardson, Ph.D., Oregon State University, Assistant Professor

Vassilios A. Tsilirintzis, Ph.D., P.E., P.H., (University of Illinois at Urbana) Assistant Professor
# College of Engineering and Design

**Dean**
Gordon R. Hopkins

**Associate Dean**
- Gustavo A. Roig
- Iraj M. Majzub

**Director, Academic Support Services**
Lourdes A. Meneses

**Chairperson, Civil and Environmental Engineering**
L. David Shen

**Chairperson, Construction Management**
Jose D. Mitran

**Chairperson, Electrical and Computer Engineering**
James R. Story

**Chairperson, Acting, Industrial Systems and Engineering**
Shih-Ming Lee

**Chairperson, Mechanical Engineering**
M. Ali Ebadian

**Director, Drinking Water Research Center**
William J. Cooper

**Director, Engineering Professional Development**
Neil Hout-Cooper

**Director, Lehman Center for Transportation Research**
L. David Chen

**Director, International Institute for Housing and Buildings**
Oktay Ural

---

**Faculty**

- **Adjouadi, Malek, Ph.D.** (University of Florida), Assistant Professor, Electrical and Computer Engineering
- **Ahmad, Irlizhad, Ph.D., P.E.** (University of Cincinnati), Assistant Professor, Construction Management
- **Aleman, Yvette, M.S.** (Florida International University), Visiting Research Associate, LCTR Civil and Environmental Engineering
- **Alvarez, Leonardo, MLA, AIA, ASLA** (Harvard University), Associate Professor, Director, School of Design
- **Andrian, Jean, Ph.D.** (University of Florida), Associate Professor, Electrical and Computer Engineering
- **Attoh-Okine, Nil O.** (University of Kansas, Lawrence), Visiting Research Associate, LCTR Civil and Environmental Engineering
- **Aurioles, Gabriel, Ed.D.** (Florida Atlantic University), Associate Professor, Construction Management
- **Babij, Tadeusz, Ph.D.** (Technical University, Wroclaw, Poland), Associate Professor, Electrical and Computer Engineering
- **Baker, Edward T., MLA, MDes, ASLA** (Harvard University), Assistant Professor, Landscape Architecture, School of Design
- **Barnes, Wilson C., M.Arch., A.I.A.** (Harvard University), Assistant Professor and Coordinator, Construction Management, Boward
- **Bluestein, Danny, Ph.D.** (Tel-Aviv University, Israel), Visiting Research Associate, Mechanical Engineering
- **Bueno, J. A., MLA, ASLA, P.E.** (Harvard University), Associate Professor, Program Coordinator, Landscape Architecture/School of Design
- **Busch, Claudia, M.S.** (Columbia University), Assistant Professor, School of Design
- **Canaves, Jaime, M.A., R.A.** (University of Florida), Associate Professor, School of Design
- **Cao, Yiding, Ph.D.** (University of Dayton), Assistant Professor, Mechanical Engineering
- **Centeno, Martha, Ph.D.** (Texas A&M University), Assistant Professor, Industrial and Systems Engineering
- **Cereijo, Manuel R., D.Sc., P.E.** (Universidad Central, Cuba), MSEE (Georgia Institute of Technology), Professor, Electrical and Computer Engineering
- **Chaudhari, Bhaskar S., Ph.D., P.E.** (University of Pennsylvania), Professor, Construction Management
- **Chelliah, S., Ph.D.** (Purdue University), Assistant Professor, Mechanical Engineering
- **Cherapanov, Genady, Ph.D.** (Moscow State University), Professor, Mechanical Engineering
- **Chen, Chin Sheng, Ph.D.** (Virginia Polytechnic Institute and State University), Associate Professor, Industrial and Systems Engineering
- **Chow, Joe, Ph.D.** (Carnegie Mellon University), Associate Professor, Industrial and Systems Engineering
- **Cooper, William, Ph.D.** (University of Miami), Director and Research Professor, Drinking Water Research Center, Associate Professor, Chemistry
- **Cox, Ann, Ph.D.** (University of Virginia), Visiting Assistant Professor, Electrical and Computer Engineering
- **Dong, Zhileng, Ph.D.** (Xi'an Jiaotong University), Visiting Assistant Professor, Mechanical Engineering
- **Dye, John M., S.M. C.E.** (Massachusetts Institute of Technology), Instructor Professor, Construction Management (Broward)
- **Ebadian, M. Ali, Ph.D.** (Louisiana State University), Professor and Chairperson, Mechanical Engineering
- **El-Sayed, Mohamed, Ph.D.** (Wayne State University), Associate Professor, Mechanical Engineering
- **Flores, Vinio, Ph.D.** (Colorado State University), Courtesy Professor, Civil and Environmental Engineering
- **Farmer, Eugene D., M.Arch., R.A.** (University of Illinois), Associate Professor, Construction Management
- **Fuentes, Hector R., Ph.D., P.E., D.E.E.** (Vanderbilt University), Associate Professor, Civil and Environmental Engineering, Drinking Water Research Center
- **Genereux, David P., Ph.D.,** (Massachusetts Institute of Technology) Assistant Professor, Drinking Water Research Center, Geology
- **Goldberg, Carmen, M.S.** (Florida International University), Visiting Coordinator, Mechanical Engineering
- **Gonzalez, Rene, M. Arch.** (UCLA), Visiting Assistant Professor, School of Design
- **Hagmann, Mark J., Ph.D.** (University of Utah), Associate Professor, Electrical and Computer Engineering
- **Heimer, Malcolm L., Ph.D.** (Penn State University), Associate Chairperson, Associate Professor, Electrical and Computer Engineering
- **Hermanlin, Leonie, J.D., MCP,** (University of California at Berkeley), Visiting Instructor, School of Design
- **Hopkins, Gordon R., Ph.D.** (University of Alabama), Dean, College of Engineering and Design and Professor, Mechanical Engineering
- **Hout-Cooper, Neil M., Ph.D.** (Florida Atlantic University), Director, Engineering Professional Development
- **Huang, Dongzhou, Ph.D.** (Tonji University), Visiting Research
Associate, Civil and Environmental Engineering

Jaffe, Rudolf, Ph.D., (Indiana University), Associate Professor, Drinking Water Research/Chemistry

Jiang, Wei, Ph.D. (University of Illinois), Visiting Research Associate Professor, Mechanical Engineering

Jollbins, Sylvan C., Jr., Ph.D. (University of California at Berkeley), Assistant Professor, Civil and Environmental Engineering

Jones, W. Kinzy, Ph.D. (Massachusetts Institute of Technology), Professor, Mechanical Engineering/Engineering Mechanics and Computer Engineering

Kengskool, Khoklat, Ph.D. (University of Missouri), Associate Professor, Civil and Environmental Engineering

Larkins, Grover L., Ph.D. (Case Western Reserve University), Associate Professor, Electrical and Computer Engineering

Lee, Shih-Ming, Ph.D. (Iowa State University), Associate Professor and Acting Chairperson, Industrial Systems and Engineering

Lee, Young-Kyun, M.S. (Purdue University), Visiting Research Associate, LCTR 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

Li, Weigong, Ph.D. (University of Miami), Visiting Assistant Professor, Mechanical Engineering

Lopez-Mata, Gisela, M.S. (Pratt Institute), Assistant Professor, School of Design

Lulu, Membru, Ph.D. (University of Alabama), Associate Professor, Industrial and Systems Engineering

Majzub, Ira E., D Arch, RA (University of Toronto), Professor, School of Design and Associate Dean, College of Engineering

Martinez, Sergio, D.Sc., M.I.T. (Columbia University), Instructor, Industrial Systems and Engineering

Mergui, Sylvia, Ph.D. (Louis Pasteur University), Visiting Assistant Professor, Electrical and Computer Engineering

Mitran, Jose D., M.E., Engr., P.E., (University of Florida), Associate Professor and Chairperson, Construction Management

Mohammed, Osama A., Ph.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Electrical and Computer 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 Systems and Engineering

Ospina, Diana I., M.S. (Florida International University), Visiting Research Associate, LCTR Civil and Environmental Engineering

Ozalo, Julio O., M.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

Pascual, Beth, M.S. (Florida International University), Assistant Professor, Civil and Environmental Engineering

Peri, Mordechali, D.Sc. (Technion Institute of Technology) Courtesy Professor, Mechanical Engineering

Prieto-Portar, Luis A., Ph.D. P.E. (Princeton University), Assistant Professor, Civil and Environmental Engineering

Pu, Zhonglie, Ph.D., (Central Iron and Steel Research Institute, Beijing), Visiting Research Associate, Mechanical Engineering

Pujol, Luis, (Lehigh University), Visiting Associate Professor, Mechanical Engineering

Rosnick, 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

Rogge, Wolfgang F., Ph.D. (California Institute of Technology), Assistant Professor, Civil and Environmental Engineering

Rogl, Gustavo, A., Ph.D. (University of Florida), Associate Dean, College of Engineering and Design and Associate Professor of Electrical and Computer Engineering

Romine, Peter, Ph.D. (University of Alabama), Visiting Assistant Professor, Electrical and Computer Engineering

Romney, Hervin, M. Arch., (Yale University), Visiting Assistant Professor, School of Design

Roues, Camilo, M. Arch., R.A. (Harvard University), Assistant Professor, School of Design

Ruz, 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

Schopfloerster, Richard, Ph.D. (University of Iowa), Assistant Professor, Mechanical Engineering

Shen, Lon-Li, David, Ph.D., P.E. (Clemson University), Acting Chairperson and Associate Professor, Civil and Environmental Engineering

Shirazinedjad, 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

Swift, Frederick, Ph.D. (Oklahoma State University), Professor, Industrial and Systems Engineering and Professor, Mechanical Engineering

Tall, Lamberg, 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, Berkin, Ph.D., P.E. (University of Wisconsin-Madison), Assistant Professor, Civil and Environmental Engineering

Tansel, Ibrahim, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Mechanical Engineering

Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor, Civil and Environmental Engineering

Tsilhitzis, Vassilios A., Ph.D., P.E., P.H. (University of Illinois, Urbana-Champaign), Assistant Professor, Civil and Environmental Engineering
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 Vilet, 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), Associate Professor, Mechanical Engineering

Wunnava, Subbarao V., Ph.D., P.E. (Andhra University), Professor, Electrical and Computer Engineering

Xlong, Yihua, Ph.D. (University of Washington), Assistant Professor, Civil and Environmental Engineering

Yang, Gao, Ph.D. (The Catholic University of America), Visiting Assistant Professor, Mechanical Engineering

Yen, Kang K., Ph.D. (Vanderbilt University), Associate Professor, Electrical and Computer Engineering

Yih, Taching, 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
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 body.

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.

Dietetics and Nutrition

Susan P. Himburg, Professor, Chairperson, and Director, Coordinated Undergraduate Program
Katharine R. Curry, Professor
Zisca Dixon, Assistant Professor
Penelope S. Easton, Professor Emeritus
Evelyn B. Enlinole, Associate Professor, Didactic Program Director and AP4 Director
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 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 in conjunction with the master's program. In some cases prerequisites must be met before enrolling in graduate courses. Interested students should contact the department prior to applying for admission.

Minimum entrance requirements under current Board of Regents policy must be met. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Test of the Graduate Record Examination or a least a 'B' (3.0 on a 4.0 scale) average in all upper division work. Application procedures for admission are detailed in the discussion of 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 nutritional care community health agencies or private practice. The Management track broadens the concepts of management and develops managerial skills and expertise. Advanced courses in the School of Hospitality Management and College of Business Administration are recommended in the program of study.

Students who are candidates for the Master of Science degree in Dietetics and Nutrition must complete a minimum of 37 semester hours of graduate study including at least 30 hours at this University. All 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 American Dietetic Association's Council on Education, Division of Education Accreditation/Approval, a specialized accrediting body recognized by the Council on Post Secondary 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 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 who have never attended FIU must complete six hours of graduate work at FIU prior to the Fall admission date. To be eligible, students must have completed an ADA Didactic program and be admissible 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 Research Core: (13-16)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE 6668</td>
<td>Research Methods in Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>DIE 6937</td>
<td>Graduate Seminar in Dietetics</td>
<td>1</td>
</tr>
<tr>
<td>STA 6166</td>
<td>Statistical Methods in Research</td>
<td>3</td>
</tr>
<tr>
<td>DIE 6971</td>
<td>Thesis in Dietetics</td>
<td>3-6</td>
</tr>
<tr>
<td>DIE 6908</td>
<td>Supervised Field Study in Dietetics</td>
<td>3</td>
</tr>
</tbody>
</table>

Scientific Knowledge: (6-12)

Application to Discipline: (6-12)
Clinical/Community Track
DIE 6368 Advanced Techniques in Dietetic Practice 2
DIE 6368L Advanced Techniques in Dietetic Practice Lab 1

Management Track
DIE 6128 Advanced Management of Dietary Systems 3

Recommended Electives
Planned in conjunction with the faculty 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


DIE 5946 Advanced Practicum in Community Nutrition (1-6). Pre-planned clinical experience at the professional level in community nutrition. Prerequisite: Permission of instructor.

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.

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.

DIE 6128 Advanced Management of Dietary Systems (3). Application of management and organizational theory to dietary 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.

DIE 6368L Advanced Techniques in 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.

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.

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 an in-depth advanced study of a specialty. Prerequisites: Permission of instructor and advanced standing in graduate program.

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 Chairperson of the Department.

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.

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: Advanced graduate standing and permission of instructor.

DIE 6935 Special Topics in Dietetics (3). In-depth study of historical, epidemiological, prevention, 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.

DIE 6971 Thesis in Dietetics and Nutrition (3-6). Prerequisites: DIE 6578 or HUN 6811. 12 hours of graduate study and permission of Thesis Director.

DIE 7437 Nutrition Counseling Supervision (2). Covers techniques for advising on food choices and providing support for life style changes to meet wellness goals or treat diseases. Prerequisites: DIE 6368 and DIE 6368L.

DIE 7566 Research Concept Development in Dietetics and Nutrition (3). Grant proposal writing for dietetic and nutrition research. Prerequisite: DIE 6568.

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 food borne 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 analyses and utilization in food services and nutrition care. Prerequisite: Advanced Graduate Standing. Corequisite: FSS 6535.

HUN 5123 Ethnic Influences on Nutrition and Food Habits (3). Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competence 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. Prerequisites: 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.

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.

HUN 6257 Physiol/Physiology 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.
Medical Laboratory Sciences

William J. Keppler, Professor, Dean, 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, Associate Professor and Associate Dean
Beverly A. Warden, Assistant Professor and Coordinator, Graduate Program

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. Students entering the program should have completed a minimum of two years of chemistry, one year of mathematics including statistics, two years of biology including immunology and biochemistry. A minimum of seven semester hours of undergraduate clinical coursework in one of the specialty areas is also required for individuals who do not possess a bachelor's degree in medical technology or 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.
3. 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 portions of the Graduate Record Examination (GRE) (or a minimum combined score of 1500 on the three-part GRE).
4. 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.
5. Submit an autobiographical statement or letter of intent (no to exceed 1000 words) which includes educational goals and career projections. Applicants may also include copies of previous written scientific work.
6. 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.
7. Approval from the Departmental Graduate Committee.

Degree Requirements

The Master of Science in Medical Laboratory Sciences consists of a minimum of 36 credits, including a thesis based upon the student's original research. A maximum of six credits of graduate coursework may be transferred from other institutions subject to approval of the Graduate Committee. It is expected that a full-time student taking nine credits per semester should be able to complete the program in two years.

Students holding a baccalaureate degree in science who do not have adequate clinical background will be required to complete a minimum of seven credit hours of undergraduate course work in the specialty area. The course to be completed will be determined by the graduate committee at the time of the student's admission into the graduate program. Undergraduate credits are in addition to graduate level course requirements. They may not be substituted for graduate courses.
Core Courses
ML 5175 Advanced Clinical Pathology 3
ML 5515 Advanced Diagnostic Immunology 3
ML 5615 Research Instrumentation and Techniques in Medical Laboratory Sciences 3
ML 5785 Research Methods in Medical Laboratory Sciences 3

Specialty Courses: Clinical Immunology
ML 5585 Human Histocompatibility Antigens 3
ML 6180 Immunopathology 3
ML 6939 Advanced Topics in Medical Laboratory Sciences 3

Specialty Courses: Clinical Microbiology
ML 6425 Advanced Clinical Mycology 3
ML 6468 Molecular Mechanisms of Infectious Diseases 3
ML 5475 Medical Virology 3
ML 5495 Agents of Foodborne Disease 3

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

ML 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.

ML 5585 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.

Specialty Courses: Clinical Immunology
ML 528 Diagnostic Hematological Cytology/Cytotechnology (3). Morphological, cytochemical, cytoesthetic 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.

ML 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.

ML 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.

ML 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.

ML 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.

ML 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.

ML 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.

ML 5675 Clinical Protein Chemistry (3). Lectures dealing with isolation and identification of clinically significant proteins and enzymes. Patho-
logical conditions and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

MLS 5684 Metabolic Effect 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 6329 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 6425 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 6468 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 6575 Advanced Blood Banking (3). A comprehensive study of the techniques and methods used to acquire, prepare, store, test and transfuse blood and its components. Prerequisite: Graduate standing or permission of instructor.

MLS 6595 Advanced Immunohematology (3). A comprehensive study of antigen-antibody reactions and analogous phenomena as they relate to the pathogenesis and clinical manifestations of blood disorders. Prerequisite: Graduate standing or permission of instructor.


MLS 6665 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.

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.

MLS 6938 Graduate Seminar (1). Oral presentation of literature review or research. Prerequisite: Graduate standing or permission of instructor.

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.

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.

MLS 6971 Master's Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of Master's degree requirement. Minimum requirement of six credit hours. Prerequisite: Permission of major instructor.
Occupational Therapy

Anne H. Hull, Assistant Professor and Chairperson
Elise Bloch, Instructor
Susanne D’Agati, Visiting Instructor
Susan Kaplan, Associate Professor and Graduate Coordinator
Sharon Ledbetter, Associate Professor
Gail Hills Maguire, Professor
Patricia Scott, Assistant Professor
Pam Shaffner, Instructor

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, which is fully accredited by the American Occupational Therapy Association Certification Board, includes 64 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 1000 (verbal and quantitative parts) on the Graduate Record Examination (GRE). All students are required to take the GRE.

4. Have a basic statistics course.

5. Provide three letters of reference, a curriculum vitae/resume, a summary statement of professional and educational goals and assessment of current professional activities.

6. Receive approval from the departmental graduate admissions committee.

7. International students are accepted subject to space and fiscal limitations. Students must have a Bachelor’s degree or equivalent in occupational therapy from an institution recognized in their own country as preparing students for graduate level study; academic eligibility for further study in their own country; demonstrate proficiency in the English language by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

8. Students who must complete the professional certificate program must apply by January 15th for Summer B term admission.

Degree Requirements

The Master of Science in Occupational Therapy consists of 36 credits including a thesis. Fifteen credits of core courses must be taken in the department plus a minimum of six credit hours of thesis.

A maximum of six credits of graduate coursework may be transferred from other institutions, subject to the approval of the departmental graduate committee.

All students must successfully pass the written comprehensive examination, taken toward the end of their program.

Required Courses: (36)

Occupational Therapy Core

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</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</td>
<td>3</td>
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Therapy Intervention Strategies 3

Continuing Clinical Competence for Occupational Therapists 3

Research Core

<table>
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<tr>
<th>Course</th>
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<th>Credits</th>
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<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>
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</tbody>
</table>

Clinical Specialty Component

Combination of occupational therapy and university electives in an identified area of clinical interest approved by the faculty. 12

Occupational Therapy Certificate

The certificate program can only be taken concurrently with the Master of Science in Occupational Therapy. It is designed for the student who already holds a Bachelor’s degree in a field other than occupational therapy. Students admitted to this program will apply to the occupational therapy department as graduate students.

The certificate curriculum will enable students to qualify for certification by the American Occupational Therapy Certification Board. Graduates who hold a bachelor’s degree in a field other than occupational therapy must complete this program.

Prerequisites

Statistics, abnormal psychology, theories of personality, human growth and development, biology, human anatomy, human physiology, neuroscience, and medical terminology.

1These courses must be at the junior level or above. If not taken as a prerequisite, they may be taken after admission to the certificate program.

Required Courses: (64)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</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>1</td>
</tr>
<tr>
<td>OTH 3520</td>
<td>Developmental Theory I</td>
<td>2</td>
</tr>
<tr>
<td>OTH 3520L</td>
<td>Developmental Theory I Lab</td>
<td>1</td>
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</table>
OTh 4170L Therapeutic Techniques 2
OTh 4210 Developmental Theory II 3
OTh 4315 Theory & Dysfunction in Psychiatric O.T. 2
OTh 4325 Evaluation & Treatment in Psychiatric Occupational Therapy 2
OTh 4325L Evaluation and Treatment in Psychiatric Occupational Therapy Lab 1
OTh 4411 Pathology & Medical Surgical Disorders 3
OTh 4421 Biomechanics 2
OTh 4421L Biomechanics Lab 2
OTh 4422 Evaluation & Treatment of Central Nervous Systems Dysfunction & Lab 4
OTh 4422L Evaluation & Treatment of Central Nervous Systems Dysfunction & Lab 1
OTh 4761 Professional Issues 2
OTh 4851 Fieldwork Level II (Psychosocial Dysfunction) 12
OTh 4850 Fieldwork Level II (Physical Disabilities) 12
OTh 5162 Adaptation of Human Occupation 3
OTh 5011 Theories & Practice of O.T. 3
OTh 5760 Current Research in O.T. 3

Course Descriptions

Definition of Prefix
OTh - Occupational Therapy

OTh 5011 Theories and Practice of Occupational Therapy (3). The theoretical foundations of occupational therapy and issues affecting profession practice.

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.

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 of client's workplace for the disabled. Prerequisite: Admission to program or permission of instructor.

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.

OTh 5405C Analysis of Therapeutic Procedures In Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theory based assessment problem identification and treatment for the physically disabled adult.

OTh 5406 Sensory Problems and Therapeutic Implications (3). An in-depth study of sensory problems and their 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.

OTh 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit. Prerequisite: Majors only

OTh 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTh 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly. Prerequisite: Admission 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.

OTh 5764 Research In a Clinical Specialty (3). Participation in ongoing research of faculty members in clinical specialty area. Prerequisite: Permission of instructor.

OTh 5905 Independent Study (Variable Credit).

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. Prerequisites: OTh 3413/3413L, OTh 4421 or equivalent.

OTh 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTh 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program.

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.

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 interdisciplinary 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.

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 profoundly handicapped and physically impaired student populations. Corequisites: Graduate OT, PT, or Education students.

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.

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.

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**Physical Therapy**

Awilda R. Haskins, Associate Professor and Chairperson
Burton J. Dunevitz, Associate Professor
Leonard Elbaum, Associate Professor
Colleen Rose-St. Prix, 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 graduate credits of out-of-department electives, an approved graduate level research course, and a graduate level statistics course. The out-of-department electives will be determined by the student in conjunction with his or her physical therapy advisor.

A maximum of six credits of graduate work may be transferred from other institutions, provided they are approved by the departmental graduate committee and are in compliance with the University’s graduate policies and procedures.

A maximum of 12 credits earned as a non-degree seeking student at the University may be accepted by the program, provided they are approved by the Departmental graduate committee and are in compliance with the University’s graduate policies and procedures.

Required Courses: (36)
All students accepted to the graduate program will develop individualized programs of study. The program of study must be approved by the physical therapy advisor and by the departmental graduate committee.

Physical Therapy Courses
Approved Physical Therapy courses

Research Component

STA 5126 Fundamentals of Design of Experiments 3
STA 6166 Statistical Methods in Research I 3
PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design 3
PHT 6971 Master’s Thesis 6

Electives

Approved out-of-department graduate level electives 6
Approved out-of-department graduate level research course 3

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 5320 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 an 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. Prerequisites: Permission of major advisor.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic 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 re-
Public Health

Joseph Patterson, Professor and Director
William Darrow, Professor
H. Virginia McCoy, Associate Professor
Robert R. Stempel, Assistant Professor
Thomas J. Thompson, Assistant Professor

Master of Public Health

The Master of Public Health is an affiliated program offered with the Department of Epidemiology and Public Health at the University of Miami School of Medicine.

The program is designed to provide fundamental skills in core areas of Public Health to persons involved in the policy development, planning, and implementation of community health services; and to serve those seeking a broader base of knowledge to improve environmental and personal health services for the community. This program prepares the practicing professional in the diverse fields of community health.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level, and submit a score of 500 on the TOEFL.

2. A minimum 3.0 GPA (on the last 60 undergraduate hours), or a combined quantitative and verbal score of 1000 on the GRE taken within the last five years; or a score of 500 on the GMAT; passed the MCAT, LSAT, or equivalent; or a graduate degree from an accredited institution. However, all applicants, regardless of previous GPA, are required to submit the appropriate aptitude test scores. In addition, applicants are required to 1) submit three letters of recommendation from persons in the field of public health and the academic major at the institution most recently attended; 2) have a personal interview with the Graduate Admission Committee; 3) submit a written personal statement as described in the application packet provided by the Department of Public Health; 4) provide 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 (18 semester hours); General Electives (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 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, environment standards, and environmental protection programs.

(Offered in cooperation with the Department of Civil and Environmental Engineering) (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)
Select at least three courses from the following list:
- ENV 5105 Air Quality Management 3
- ENV 5356 Solid Wastes 3
- ENV 5506 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. Interested students should contact the Department at 940-5538.

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

General Electives: (6)

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 the individuals for health promotion 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 6750 Program Development and Evaluation in Health Promotion 3

Concentration Electives: (6)
Select two courses from the following list:
- 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. Emphasis is on Health Policy Analysis and Primary Care Administration in various health care settings.

Required Courses: (12)
- PHC 6111 Primary Health Care 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)
Select two courses from the following list:
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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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
health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources, and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or permission of instructor.

PHC 6520 Public Health Aspects of Foodborne Diseases (3). Examines the scope of the foodborne disease problem; factors that contribute to outbreak of foodborne disease; strategies for the prevention and control of these diseases are explored. Prerequisites: PHC 6000, PHC 6050, and PHC 6315.

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.

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.

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.

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.

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.

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.

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
William J. Keppler

Associate Dean
Sylvia L. Smith

Chairpersons and Directors:

Dietetics and Nutrition
Susan P. Hilmburg

Health Information Management
Elizabeth M. Johnson

Medical Laboratory Sciences
TBA

Occupational Therapy
Anne H. Hull

Physical Therapy
Awilda R. Haskins

Prosthetics and Orthotics
Joan Betts

Public Health
Joseph Patterson

Faculty

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Bash, Jerry A., Ph.D., M.T. (ASCP),
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Joan Betts, Ed.D, C.P.O., (Memphis State University), Assistant Professor, Prosthetics and Orthotics

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Keane, Michele W., Ph.D., R.D.
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Keppler, William J., Ph.D. Board
Certified (University of Illinois), Professor, Medical Laboratory Sciences, and Dean

Lefkofsky, Sharon Ph.D., A.O.T.A.
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Maguire, Gail H., Ph.D., O.T.R./L.,
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McCoy, Virginia, Ph.D., (University of Cincinnati), Associate Professor, Public Health

Michael, Patricia, M.P.H., O.T.R.
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Patterson, Joseph, Dr. P.H. (University of California at Los Angeles), Professor and Director, Public Health

Rose-St. Prix, Colleen MHSA, P.T.
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Shen, Patrick F., Ph.D., M.T. (ASCP)
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Smith, Sylvia L., Ph.D., S.M. (AAM, ASCP) (University of Miami), Professor and Associate Dean, Medical Laboratory Sciences

Spiers, Ronald W., M.Sc., C.P.
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Yahara, Mae M.S., APTA (George Mason University), Assistant Professor, Physical Therapy

Yunis, Maha M.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
Ello Bellucci, Associate Professor
M. Chase Burritt, Adjunct Lecturer
Cheryl Carter, Adjunct Lecturer
Patrick J. Cassidy, Instructor
Perchal Darby, Assistant Professor
Richard Donnelly, Assistant Professor
Marcel Escottier, Assistant Professor
Peter Goff, Associate Professor
Fritz G. Hagenmeyer, Associate Professor
Albert J. Haleblian, Associate Professor
T. Michael Hampton, Assistant Professor
William M. Hansen, Adjunct Lecturer
William Hebrank, Adjunct Lecturer
Michael E. Hurst, Professor
Charles L. Ivento, Associate Professor
Howard R.H. Johnson, Adjunct Lecturer
Lendal Kotschevar, Professor
Gerald W. Lattin, Professor Emeritus
Steven V. Moll, Associate Professor
Elisa Moncarz, Professor
Michael J. Moran, Lecturer
William J. Morgan, Jr., Professor
William O'Brien, Associate Professor
Alan J. Parker, Professor
Barry L. Peri, Visiting Assistant Professor
Nestor Portocarrero, Associate Professor
Roger Probst, Lecturer
Edward A. Remington, Visiting Assistant Professor
Joan S. Remington, Visiting Assistant Professor
J. Kevin Robson, Associate Professor
Adele E. Smith, Associate Professor
William Stanford, Lecturer
David M. Talty, Assistant Professor
Mary L. Tanke, Associate Professor
Ted Theander, Lecturer
Andrew N. Vladimir, Assistant Professor
Jeffrey M. Wachtel, Associate Professor
Mickey Waner, Associate Professor
Theodore White, Lecturer

The School of Hospitality Management offers Bachelor's and Master's 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, motels, 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 experience normally not available to a student until he or she has entered the industry after graduation.

An Industry Advisory Board - which includes outstanding executives in the hotel, food and 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 to file a change 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 admission 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 at least 800-1000 hours in the Hospitality Industry in addition to the Graduate Internship of 200-300 hours.

Non-Degree Seeking Students

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but 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 North Miami 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 3
- HFT 6227 Hospitality Management Systems 3
- HFT 6246 Organizational Behavior in the Hospitality Industry 3
- HFT 6296 Seminar in Hospitality Management 3
- HFT 6446 Hospitality Industry Information Systems 3
- HFT 6477 Financial Management for the Hospitality Industry 3
HFT 6586 Research and Statistical Methods 3
HFT 6697 Hospitality Law Seminar 3
HFT 6946 Graduate Internship 3
Electives: (5000 and 6000 level) 12
In place of HFT 5476 or HFT 5478 and two electives, the student may choose to complete HFT 6916, the Hospitality Industry Research Project which carries a nine credit hour requirement. The student also must take a graduate course in Research and Statistical Methods, either EDF 5481 or PAD 6701, which will count as an elective.

Course Descriptions

Definition of Prefixes
FSS - Food Service Systems; HFT - Hotel, Food, Tourism.
F - Fall semester offering; S - Spring semester offering; SS - Summer semester offering.

FSS 6106 Purchasing and Menu Planning (3). Advanced information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods, including development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized. (F,SS)

FSS 6365 Food Service Systems (3). Principles of system analysis applied to the food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

FSS 6452 Advanced Food Service Design Operations (3). Advanced planning, programming, and project documentation for commercial food service facilities. Spatial, environmental, and electro-mechanical design factors are stressed, with particular emphasis on efficiency modification and investment aspects. Recommended: HFT 3343 or FSS 4431.

FSS 6834 Food Service 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. (F,SS)

HFT 5478 Restaurant Development (3). A study of the procedures to research and develop a restaurant form 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. (F,SS)

HFT 5595 Problems in Marketing (3). Team-work analysis and recommended solution of actual marketing problems and case studies. Prerequisite: HFT 5503.

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.

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.

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.

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,SS)

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 multiethnic society through an examination of value systems and cultural characteristics. Prerequisite: 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)

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 these 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 food service industry. Research of the current literature, 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 Noncommercial 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, pari-mutuels, etc. (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 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.S.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.S.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.S.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, negotiations.

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 decision and analysis, and inventory tracking. In addition, a research project will be assigned. Prerequisites: HFT 3423 or HFT 6446 and permission of instructor. (F.S.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 of reporting are considered.

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem and development of a marketing plan. Prerequisite: HFT 3503.

HFT 6605 Legislation and the Hospitality Industry (3). An advanced study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment. Prerequisite: HFT 3603. (F.S.SS)

HFT 6697 Hospitality Law Seminar (3). New laws and their impact on the hospitality industry are examined. Students research and publish "industry alert bulletins," explaining the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603. (F.S.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.S.SS)
School of Hospitality Management

Dean Anthony G. Marshall
Associate Dean Lee C. Dickson
Associate Dean Rocco M. Angelo

Faculty
Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean
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School of Journalism and Mass Communication
School of Journalism and Mass Communication

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Lillian Lodge Kopenhaver, Professor and Associate Dean
Debra Miller, Assistant Professor and Assistant Dean
Patricia B. Rose, Associate Professor and Chair Department of Advertising and Public Relations
William Adams, Associate Professor
Gerardo Bolanos, Regional Director, Latin American Journalism Program
Humberto Delgado, Associate Professor
Charles Fair, Associate Professor
Hernando Gonzalez, Associate Professor
Charles Green, Executive Director, LAJP
Kevin Hall, Editor-in-Residence
Michael Huber, Visiting Instructor
Laura Kelly, Assistant Professor
David L. Martinson, Professor
Agatha Ogazon, Program Coordinator, LAJP
Robert Ruttenberg, Associate Professor
Paul Stueber, News Director-in-Residence
Lorna Veraldi, Assistant Professor
Jack Virtue, Associate Executive Director, LAJP
Ana Cecilia With, Coordinator, LAJP

Master of Science in Mass Communication

The School of Journalism and Mass Communication is fully accredited by the Accrediting Council on Education in Journalism and Mass Communications.

The graduate program of the School of Journalism and Mass Communication offers professional education leading to the M.S. in Mass Communication with current specializations in student media advising and integrated communications: advertising and public relations. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates' abilities to work in the mass communication professions.

Admission Requirements

To be eligible for admission to the graduate program, applicants must meet the following requirements:

1. All applicants must have a bachelor's degree from a regionally accredited college or university.
2. All candidates must show promise of success in graduate studies. The faculty will consider the following criteria in making this determination:
   a. Grade Requirements
      Minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the junior and senior undergraduate years.
   b. Graduate Record Examination (GRE): The GRE or - upon request from the candidate in certain cases - the Graduate Management Admission Test (GMAT) is required. Passing score for the GRE is at least 1000; 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 he/she scores lower than 500 on the verbal portion of the GRE or lower than the 55th percentile on the verbal portion of the GMAT.
   c. 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.
   d. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
   e. 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.

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 test 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 may take no more than nine graduate credits - and no professional courses - until they pass the writing proficiency exam or
MMC 3101. 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 nine hours must be in a field of concentration outside the School of Journalism and Mass Communication. A minimum of three of these credits must be at the graduate level (5000 or 6000 level).

3. At least 27 hours must be in School of Journalism and Mass Communication courses.

Core Curriculum
All students must take the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 6402</td>
<td>Theories of Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>MMC 5445</td>
<td>Applied Research Methods in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Professional Project</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
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<td>3</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Professional Project</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to the core courses, students in the student media advising specialization must take the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 5806</td>
<td>Student Media Advising</td>
<td>3</td>
</tr>
<tr>
<td>MMC 5207</td>
<td>Ethical and Legal Foundations of the Student Press</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6635</td>
<td>Contemporary Issues in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>VIC 5203</td>
<td>Trends in Graphic Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must also take two additional three-credit graduate courses in the School of Journalism and Mass Communication in an appropriate area of emphasis. Courses must be approved by the student’s advisor.

Integrated Communications: Advertising and Public Relations
Core Curriculum
All students must take the following core courses:

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>MMC 5445</td>
<td>Applied Research Methods in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Professional Project</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to core courses, ICAP students must take the following program courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADV 6805</td>
<td>Creative Advertising and Public Relations Execution</td>
<td>3</td>
</tr>
<tr>
<td>PUR 5406</td>
<td>Multi-Cultural Communications</td>
<td>3</td>
</tr>
<tr>
<td>PUR 5607</td>
<td>Advertising and Public Relations Management</td>
<td>3</td>
</tr>
<tr>
<td>PUR 5806</td>
<td>Integrated Advertising and Public Relations Planning, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PUR 6935</td>
<td>Advanced Advertising and Public Relations Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6051</td>
<td>Organization and Management Process</td>
<td>3</td>
</tr>
<tr>
<td>MAR 6506</td>
<td>Advanced Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MAR 6805</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must take one additional course from the School of Journalism and Mass Communication with the consent of the advisor.

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 becoming more familiar with Spanish-Language journalism in general. The focus of the program will be on reading, writing, and thinking.

Required Courses (15)
All applicants should have successfully completed at least two years of college level courses, and be practicing journalism for at least the last 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 faculty advisor. Students who qualify for admission to the master’s degree in mass communication (MMC) program will be able to transfer up to nine appropriate graduate credits. All courses will be taught in Spanish. Some courses may be taught off campus.
Program of Studies: (15)
JOU 3114 Advanced Newsroom 6
or any combination of two courses listed below

JOU 6196 Advanced Writing Techniques 3
JOU 6931 Seminar on Special Topics 3
JOU 6198 Advanced Public Affairs Reporting 3

In addition to the required courses, the students must take three other 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 with a minimum grade of "C".

JOU 3114 Advanced Newsroom 6
JOU 3312 Specialty Journalism 1 (must be taken 3 times)
JOU 4004 Perspectives in Mass Communication 3
JOU 6196 Advanced Writing Techniques 3
JOU 6198 Advanced Public Affairs Reporting 3
MMC 5932 Special Topic 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

The program will allow students to specialize in Spanish language journalism, with regional emphasis in Central America or any other Spanish-speaking country or region. Students who participate in the program will be better suited to practice journalism in the area of concentration covered by the program. Every year the Coordinating Committee will choose an area of emphasis such as Central America, a country in particular, or special interest areas such as the environment, regional economics, journalism education, or regional political development.

Student Media Advising
This professional certificate program is designed primarily for journalism teachers and for student media advisors on all levels and for those aspiring to the profession. This program will satisfy the requirements of the certification, re-certification or incentive credits for current public school teachers in the field.

The Certificate in Student Media Advising requires 15 credits to be taken as follows:

Required Courses
JOU 5806 Student Media Advising
MMC 5207 Ethical and Legal Foundations of the Student Press
VIC 5205 Trends in Graphics and Design

Elective Courses
Students must take two of the following:
RTV 5936 Seminar in New Communication Technologies
MMC 6402 Theories of Mass Communication
MMC 6635 Contemporary Issues in Mass Communication
JOU 6196 Advanced Writing Techniques
PUR 4101 Publications Editing and Design
JOU 4208 Magazine Editing and Production
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.

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues.

ADV 6805 Creative Advertising and Public Relations Execution (3). Writing and visualization relevant to developing creative executions for integrated communications problems.

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.

JOU 6196 Advanced Writing Techniques (3). Techniques of creative journalistic writing, including description, narration, anecdote, and direct expression. 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.

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.

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.

MMC 5661 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.

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.

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.

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.

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: PUR 3000 and PUR 4100 and PUR 4800 or permission of instructor.

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: PUR 3000 and PUR 4800 or permission of instructor.

PUR 6935 Advanced Public Relations Seminar (3). A series of readings, discussions and presentations immerse students in contemporary issues in Advertising and Public Relations. Prerequisites: PUR 5607 and PUR 5806 or permission of instructor.

RTV 5806 Telecommunication Management Structures (3). Intensive study of telecommunication management problems, theory of same, solutions of same through practical application and examination of case studies. Prerequisite: Graduate standing.

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or permission of instructor.

RTV 5936 Seminar in New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing.

RTV 6309 Advanced Broadcast News (3). Advanced techniques, principles and issues of reporting for the electronic media, from spot news to documentaries. Prerequisite: Graduate standing.

RTV 6465C Field Production Practicum (3). The student will be responsible for the organization and complete pre-production, production, and post-production of his/her project(s). Prerequisite: Graduate standing.

RTV 6466C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

VIC 5205 Trends in Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design.

School of Journalism and Mass Communication

Dean
J. Arthur Helse

Associate Dean
Lillian Lodge Kopenhaver

Assistant Dean
Debra Miller

Faculty

Adams, William, M.A. (University of Wisconsin-Madison), Associate Professor, Journalism and Mass Communication

Bolanos, Gerardo, B.A. (Institut 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

Fair, Charles, Ph.D. (Ohio University), Associate Professor, Journalism and Mass Communication

Gonzalez, Hernando, Ph. D. (Stanford University), Associate Professor, Journalism & Mass Communication

Green, Charles, B.A. (Chatham 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

Kopenhaver, Lillian Lodge, Ed.D. (Nova University), Professor and Associate Dean, Journalism and Mass Communication

Marlison, David L., Ph.D. (University of Minnesota), Associate Professor, Journalism and Mass Communication

Miller, Debra, M.A. (Ohio State University), Assistant Professor and Assistant Dean, Journalism and Mass Communication

Ogazon, Agatha, M.B.A. (Hofstra University) Coordinator, Latin American Journalism Program
Rose, Patricia, M.B.A. (University of Miami), Associate Professor, and Chairperson, Dept. of Advertising and Public Relations

Ruttenberg, Robert, M.A. (New York University), Associate Professor, Journalism and Mass Communication

Stueber, Paul, B.A. (Michigan State University), News Director-in-Residence, Journalism and Mass Communication

Veraldi, 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 adviser and is based on the student’s background and goals. The program can be completed in four semesters of full-time study, averaging a load of 9-12 credit hours per semester. Part-time study can be completed in a variable time but not to exceed six years.

Program Objectives

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 of 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 sections 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 coworker.
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.

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.
2. Application for Admission to Graduate Studies: To be returned with a $20.00 nonrefundable service fee to: Office of Admissions, Florida International University, North Miami Campus, ACCI-160, North Miami, Florida 33181.
3. Application for Admission to the Master of Science in Nursing Program: To be returned to: The Graduate Program Office, FIU School of Nursing, North Miami Campus, ACCI-203, North Miami, Florida 33181.
4. Request an official transcript of records from each college or university attended. Transcripts should be sent directly to the Office of Admissions.
5. Send three reference letters directly to the Associate Dean, FIU School of Nursing Graduate Program.
6. 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.
one semester, and she/he may be subject to dismissal if the 3.0 GPA requirement is not met after the probationary period.

4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "C" or below will not count toward satisfying graduate degree requirements.

Students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the advisor.

Master of Science in Nursing Curriculum

Core Courses (12)

NGR 5035C Advanced Client Assessment 3
NGR 5604 Culture and Advanced Nursing Practice 3
NGR 5110 Theories in Nursing 3
NGR 5810 Research Methods in Nursing 3

Clinical Concentration (12)

Advanced Adult Health Nursing

NGR 6201 Advanced Adult Health Nursing I 3
NGR 6210L Advanced Adult Health Nursing Practice I 3
NGR 6202 Advanced Adult Health Nursing II 3
NGR 6211L Advanced Adult Health Nursing Practice II 3

Advanced Child Health Nursing

NGR 6300 Advanced Child Health Nursing I 3
NGR 6301L Advanced Child Health Nursing Practice I 3
NGR 6303 Advanced Child Health Nursing II 3
NGR 6302L Advanced Child Health Nursing Practice II 3

Advanced Psychiatric-Mental Health Nursing (12)

NGR 6502 Advanced Psychiatric-Mental Health Nursing I 3
NGR 6503L Advanced Psychiatric-Mental Health Nursing Practice I 3
NGR 6504 Advanced Psychiatric-Mental Health Nursing II 3
NGR 6507L Advanced Psychiatric-Mental Health Nursing Practice II 3

Functional Role (10)

Clinical Nurse Specialist

NGR 6726C Nursing Management and Continuous Quality Improvement 3

NGR Cognate Nursing Elective 3
NGR 6704L Role Synthesis in Advanced Nursing Practice 4

Nurse Educator Role

NGR 6713 Curriculum Development in Nursing 3
NGR Cognate Non-Nursing Elective 3
NGR 6710 Role Synthesis in Nursing Education 4

Nursing Administrator Role

NGR 6725 Issues and Strategies of Nursing Administration 3
NGR 6726C Nursing Management and Continuous Quality Improvement 3
NGR 6712L Role Synthesis in Nursing Administration 4

Research (6)

Master's Thesis Option (6)

NGR 6970 MSN Thesis I 3
NGR 6971 MSN Thesis II 3

Master's Paper Option (6)

NGR 6970 MSN Thesis I (Research Project) 3
Cognate Electives 3
Free Electives 2

Sample Program Progression Plan (Full-Time Study)

Major Track: Adult Health Nursing Functional Role: Clinical Nurse Specialist

Research Option: Master's Thesis

Semester I

NGR 5035C Advanced Client Assessment 3
NGR 5110 Theories in Nursing 3

Semester II

NGR 5604 Culture and Advanced Nursing Practice 3

Summer

NGR 5810 Research Methods in Nursing 3

Semester III

NGR 6210C Advanced Adult Health Nursing I 3
NGR 6201L Advanced Adult Health Practice I 3

Semester IV

NGR 6202 Advanced Adult Health Nursing II 3
NGR 6211L Advanced Adult Health Nursing Practice II 3

Summer

NGR Nursing Elective 3
NGR Cognate Elective 3

Semester V

NGR 6970 Master's Thesis I 3
NGR 6710C Role Synthesis in Advanced Nursing Practice 4

Semester VI

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.

NGR 5135 Legal and Ethical Dimensions of Advanced Nursing Practice (3). Analysis of legal and ethical perspectives 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 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 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.

NGR 5905 Independent Study In Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, permission of instructor, and admission to a graduate program.

NGR 5936 Special Topics In Nursing (1-6). Group study of a specific topic or a limited number of related topics in nursing. Prerequisite: Must be a nursing student or Florida licensed RN.

NGR 6201 Advanced/Adult Health Nursing I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-to-moderate alterations in adaptive responses to acute/emergent illness. 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.

NGR 6210L Advanced Adult Health Nursing Practice I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-to-moderate alterations in adaptive responses to acute/emergent illness. Corequisite: NGR 6201.

NGR 6211L Advanced Adult Health Nursing Practice II (3). Advanced nursing practice with adult clients experiencing severe alteration in adaptive responses to chronic/acute 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 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 related to nursing intervention are examined through critique of pertinent literature. Corequisites: Admission to graduate studies and departmental permission.


NGR 6503L Advanced Psychiatric Mental Health Nursing Practice I (3). Application of the nursing process use of current research in individual, group, and family therapies. Time-limited and extended-care therapies in collaboration with interdisciplinary team. Corequisite: NGR 6502.

NGR 6504 Advanced Psychiatric Mental Health Nursing II (3). Development of inductive-deductive approach to theoretical understanding of person-environment pattern in multigenerational and multicultural population. Clinical specialist as therapist and manager. Prerequisites: NGR 6503L. Corequisite: NGR 5810.

NGR 6507L Advanced Psychiatric Mental Health Nursing Practice II (3). Application of the nursing process with clients presenting complex problems or high risk situations. Collaborative process in therapy and consultation, and planned change. Corequisites: NGR 6504.

NGR 6704L Role Synthesis In Advanced Nursing Practice (4). Advanced nursing practice role with diverse client population. Role developed through contractual agreements in collaboration with faculty and mentors. Prerequisites: NGR 6211L or NGR 6507L.
Sectioon, Linda

621 Role Synthesis in Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6211L, or NGR 6507L, or NGR 6302L.

672 Role Synthesis in Nursing Administration (4). Intensive practicum applying leadership, decision-making, management, and administration theories and concepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6725 and NGR 6211L, or NGR 6507L, or NGR 6302L.

673 Curriculum Development in Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission, NGR 5110.

675 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.

676C 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.

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.

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.

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**School of Nursing**

**Dean**

Linda Agustin Simunek

Associate Dean

Undergraduate Program

Jacquelyn T. Hartley

Associate Dean

Graduate Program

Luz S. Porter

**Faculty**

Blais, Kathleen, RN, Ed.D. (Florida Atlantic University), Associate Professor and Director Broward Program

Burkett, Marjorie, ARNP, Ph.D. (University of Miami), Assistant Professor

Cohen, Joan, M.A. (Teachers College, Columbia University), Visiting Assistant Professor

Eills, Avala, ARNP, MS (Barry University), Instructor

Fletcher, Cynthia, M.S. (Hunter College, New York), Visiting Assistant Professor

Grossman, Divina, ARNP, Ph.D. (University of Pennsylvania) Associate Professor

Hartley, Jacquelyn, RN, Ph.D. (Florida State University) Associate Professor and Associate Dean, Undergraduate Program

Jorda, Marie Louise, ARNP, MPH (University of North Carolina at Chapel Hill), Instructor

Lizardo, Maria Lourdes, ARNP, Ed.D. (Florida International University) Assistant Professor

Lobar, Sandra, RN, Ph.D. (University of Miami), Assistant Professor

Lowe, John, RN, MSN (Oral Roberts University), Visiting Instructor

Marchette, Lisa, RN, Ph.D. (University of Texas at Austin), Associate Professor

Morris, Linda Gay, RN, MSN (Texas Woman's University), Visiting Instructor

Phillips, Suzanne, RN, Ed.D. (Florida International University) Associate Professor

Porter, Luz, RN, P.h.D. (New York University), Professor and Associate Dean, Graduate Program

Saflan-Rush, Donna, ARNP, Ed.D. (Florida International University) Associate Professor

Simunek, Linda Aguslin, RN, Ph.D., J.D. (Loyola University of Chicago), Professor and Dean

Thornton, Rosa N., ARNP, MPH (Florida International University) Academic Advisor

---

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*

Name change pending BOR approval. Formerly, the School of Public Affairs and Services.
Graduate Admissions Requirements

Policies on admissions and prerequisites for the graduate programs are described in the appropriate sections of this catalog. At a minimum, a student planning to enroll in one of the graduate degree programs in the College must:

1. Meet the general University requirement for admission to a graduate program.
2. Hold a bachelor’s degree from a regionally accredited college or university.
3. Meet the minimum requirements of a 3.0 GPA in upper-division grades or a minimum score of 1000 on the Graduate Record Examination entrance examination, and specific program requirements for admission.
4. In addition to the above, a foreign student whose native language is not English must present a minimum score of 500 on the TOEFL, or equivalent score on a comparable examination. See General Admissions Requirements for International Students in the General Information section of this catalog.

Academic Advisement

A student who has been accepted to a degree program in the College will be assigned an academic advisor by the School in which the academic major is desired. Continued contact (at least once a semester) with the academic 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.

Degree Requirements

To be eligible for a master’s degree within the College, a student must:

1. Satisfy all University requirements for a master’s degree.
2. Meet the requirements for an approved program of study. This program of study must be approved by the appropriate School.
3. Earn a minimum GPA of 3.0 in all work completed in the student’s graduate program of study.
4. Earn a minimum grade of ‘C’ in all program courses to be eligible for graduation. A student must repeat all courses in which a grade of ‘D’ or ‘F’ was received, and earn minimum grades of ‘C’.

5. Under the University’s forgiveness policy graduate students may repeat no more than two courses with no course being repeated more than once. The course shall be repeated on a letter grade basis.

Transfer Credit

The student may request and receive permission to transfer graduate credit to his or her master’s degree program, provided that:

1. The hours requested do not exceed the maximum hours allowed by the Program.
2. The transfer courses were taken at the graduate level at an accredited college or university.
3. Grades of ‘B’ or higher were earned.
4. The courses are judged by the School to be relevant to the student’s graduate program.
5. The credits are transferred to the same semester the student is admitted to the graduate degree program.
6. The credits were not used in satisfying the requirements for another degree, or included in another degree.
7. The credits were completed within six years immediately preceding the admission to the graduate degree program.

Time Frame for Completion of Degree

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

Graduate Level Courses

The 5000-level courses are open to graduate students and to undergraduate seniors with permission of 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 program curriculum, the student may be provided supervised learning experiences in community service agencies. The clinical and field work experience is one of observation, observation, and practice in the particular program specialty of the College and is structured concurrently with relevant classroom experiences. Numerous community
organizations provide opportunities for student internships and field practices.

Continuing Education and Special Programs

The College of Urban and Public Affairs, in cooperation with the Division of Continuing Education, offers many credit, non-credit, and workshop courses in Off-Campus locations in Dade, Broward, and Monroe Counties. Courses and locations vary each semester and the program should be contacted for specific offerings.

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.

Notice to Currently Enrolled Students

Degree programs will remain in effect as of the time of the student’s admission to the program.

For more information, please contact the Dean’s Office on the North Miami Campus, ACI Room 200, (305) 940-5840.

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
Evan G. Cohn, Assistant Professor
Suman Kaur, 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 1000 on the Graduate Record Examination (verbal and quantitative) or a score of 500 on the Graduate Management Admission Test (GMAT), or a graduate degree from an accredited institution are eligible for admission to the program. All applicants must complete the GRE prior to full admission status. A maximum of 12 semester hours may be taken as a non-degree seeking student. This status does not guarantee admission to the degree program.

Degree Credit Requirements

The Master's degree in 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 programs.

Those selecting the thesis option are required to complete 30 semester hours of coursework 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>Course</th>
<th>Title</th>
<th>Credits</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>CCJ 6705</td>
<td>Advanced Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>
Electives: (18)

CCJ 5056 History and Philosophy of Criminal Justice 3
CCJ 5216 Criminal Law 3
CCJ 5235 Criminal Procedure 3
CCJ 5286 Comparative Law 3
CCJ 5287 Legal Aspects of Corrections 3
CCJ 5525 Seminar in Juvenile Delinquency 3
CCJ 5605 Deviance and Social Control 3
CCJ 5669 Minorities in Justice Administration 3
CCJ 5935 Special Topics 3
CCJ 6456 Administration and Management of CCJ Agencies 3
CCJ 6477 Seminar in Information Systems 3
CCJ 6665 Victimology and Criminal Justice System 3
CCJ 6706 Applied Statistical Techniques for CCJ 3
CCJ 6716 Planning and Program Evaluation 3
CCJ 6915 Directed Individual Graduate Study in Criminal Justice 3
CCJ 6945 Field Research in CCJ 3
CCJ 6971 Thesis Research 1-3
CCJ 6976 Masters Thesis Defense 4

Additional Procedures

Thesis track students will select a committee of three graduate faculty members, the student's major faculty advisor being a member and chairperson of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the master's program. Admission to the program should not be construed as admission to candidacy for a degree. Students may apply for candidacy upon completion of 15 semester hours. Admission to candidacy should be completed before the student enrolls for the last 12 hours.

Graduation Requirements

To receive the master's degree in criminal justice, a student must satisfy all university regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the six core courses, four electives, and the two thesis courses. The student may be required to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the six core courses and six electives. A minimum GPA of 3.0 is required.

Course Descriptions

Definition of Prefixes

CCJ-Criminology and Criminal Justice.

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 affects on police behavior.

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.

CCJ 5235 Criminal Procedure (3). A case study of major legal cases dealing with criminal procedure in the United States.

CCJ 5258 Judicial Process and Policy (3). The functions, roles, and interactions of decision makers will be analyzed and evaluated. The policy decisions and processing of criminal cases within the judicial system will be examined.

CCJ 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.

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 punishment and/or rehabilitation of the offender.

CCJ 5288 Legal Issues for Criminal Justice Administration (3). The course will focus on a basic understanding of administrative law and procedures in the American system. Topics will include the methods and limitations of the administrative process as it is developing in the American legal system.

CCJ 5347 Correctional Intervention Strategies (3). An overview and critical assessment of treatment and rehabilitation programs in corrections, including prisons, probation, parole, halfway houses, and pre-trial programs. Relevant research will be reviewed.

CCJ 5445 Corrections and Correctional Management (3). The course focuses on current critical issues and problems in the management of adjudicated offenders in correctional systems. The organization and administration of community and institutional corrections agencies will be reviewed and their performance analyzed.

CCJ 5525 Seminar in Juvenile Delinquency (3). Focuses on the nature, scope and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, delinquency, and family law.

CCJ 5605 Deviance and Social Control (3). This course will cover the major theoretical issues and ideas concerning deviant and criminal behavior and methods of socially controlling these behaviors.

CCJ 5669 Minorities in Justice Administration (3). Focuses upon the disparity in outcomes for minority groups (i.e., racial/ethnic/sexual) across the criminal justice system, and on alternative explanations for these differences in outcome. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

CCJ 5935 Special Topics (3). An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethics, terrorism, sentencing, information systems, and other topics based on student interest or current concern. May be repeated. Prerequisite: Graduate Standing.

CCJ 6025 Theory in Administration of Justice (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6456 Administration and Management of Criminal Justice Agencies (3). An examination of the criminal justice system from the per-
Health Services Administration

Melissa Ahern, Assistant Professor
Fred Becker, Associate Professor
David Bergwall, Associate Professor
Gloria Deckard, Assistant Professor
Thomas Dunaye, Professor
Burton Dunlop, Associate Professor
Rosebud Foster, Professor
Frederick Newman, Professor
Martha Pelaez, Senior Lecturer
Max Rothman, Senior Lecturer
Gall Silversteln, 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 new as also required to provide administrative leadership in staffing, directing, coordinating, and controlling the organizational resources of administrative and clinical units in such organizations.

The graduate program provides professional education to train administrative 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 supervised field experiences and a 'practical laboratory' for operational research in health service administration.

The goal of the program in Health Services Administration is to create an academic center in which the University can respond to the educational needs of the field of health services administration. The Program's mission, therefore, is dedicated to the following educational objectives:

1. To provide professional studies in the theories, methods and practices of health care management, planning, analysis, applied research, and policy development in health services organizations.

2. To participate in interprofessional education experiences with faculty, students, and practitioners of the allied health sciences, public affairs, public health, and related human services professions interacting with the field of health care management.

3. To extend consultation and technical assistance to appropriate organizational settings and practitioners in health services and administrative practice.

4. To conduct scholarly and applied research on various management problems and issues of significance to 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 applicants career goals with the programs objectives, relevance of work experience, etc. The Program Admissions Committee may require a personal interview as a part of the application process.

All applications for admission 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.

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 hour-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 Colleges 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)

<table>
<thead>
<tr>
<th>Group 1</th>
<th>HSA 5125</th>
<th>Introduction to Health Services</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HSA 6415</td>
<td>Managerial Applications of Social Determinants of Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSC 5515</td>
<td>Statistical Methods for Health Services</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6185</td>
<td>Health Services Organization and Management I</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Group 2</th>
<th>HSA 6175</th>
<th>Financial Management of Health Services I</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HSA 6186</td>
<td>Health Services Organization and Management II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6155</td>
<td>Health, Policy and Economics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6756</td>
<td>Applied Program Development and Evaluation Methods</td>
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</table>

<table>
<thead>
<tr>
<th>Group 3</th>
<th>HSA 6149</th>
<th>Strategic Planning and Marketing of Health Care Services</th>
<th>3</th>
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<tbody>
<tr>
<td></td>
<td>HSA 6187</td>
<td>Personnel Management and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6197</td>
<td>Design and Management of Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6176</td>
<td>Financing and Reimbursement of Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 5177</td>
<td>Financing and Reimbursement for Long Term Care</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 4</th>
<th>HSA 6426</th>
<th>Health Law and Legal Aspects of Management</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HSA 6717</td>
<td>Advanced Health Services Management and Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 6930</td>
<td>Professional Seminar in Health Services Management</td>
<td>1</td>
</tr>
</tbody>
</table>

Field Elective: (one of the following)

<table>
<thead>
<tr>
<th>HSA 5225</th>
<th>Long Term Care Management I</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6215</td>
<td>HMO and Ambulatory Care Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6205</td>
<td>Hospital and Health Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6245</td>
<td>Mental Health Administration and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the Following Three:

<table>
<thead>
<tr>
<th>HSA 6877</th>
<th>Master's Research Project</th>
<th>2-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6875</td>
<td>Administrative Residency</td>
<td>2-6</td>
</tr>
</tbody>
</table>
The student works full-time with the health agency during this period. The faculty supervises the student during this period. Students must apply for the administrative residency, be approved and placed in an agency by the Program the semester before the residency begins.

Course Descriptions

Definition of Prefixes

HSA - Health Services Administration; HSC - Health Sciences.

HSA 5125 Introduction to Health Services (3). The American health care system is broadly analyzed in social, economic, and political terms, including examination of its major operational and programmatic components as they have evolved in their changing patterns and trends of organizational development.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA L.T.C. Management I. Corequisite: HSA L.T.C. Management II.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 6185.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems in the U.S. with special emphasis on State of Florida.

HSA 5227 Long Term Care Management II (3). Survey of theories of geriatric care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care giving in nursing homes. Corequisite: HSA 5816.

HSA 5408 Health Services Consumer Behavior (3). Course examines the factors affecting consumer choice in the utilization of types of health services, health services delivery locations, and methods of health care delivery. Examines the role of the provider in consumer behavioral model.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a selected nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency in Nursing Home Setting (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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 entities in the health care facilities and their particular patient populations. Prerequisite: Permission of instructor.

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.

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.

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.

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.

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.

HSA 6905 Graduate Independent Study (1-6). This course is designed to allow students an opportunity for in-depth literature research or an action-oriented project carried out under the supervision of their faculty advisor. Prerequisite: Permission of faculty advisor.

HSA 6930 Professional Seminar in Health Services Management (1). A professional seminar to provide career development skills in preparation for residency or masters project. Prerequisite: Complete 36 credit hours in program.

HSA 6977 Masters Research Project (2-6). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: Permission of advisor.

HSC 5515 Statistical and Research Methods for Health Services (3). This course presents concepts of descriptive, 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 HSA 4194 or equivalent or permission of instructor.
Public Administration

Harvey Averch, Professor
James Carroll, Professor
Milan Dluhy, Professor of Public Administration and Social Work
Howard Frank, Associate Professor
Jean-Claude Garcia-Zamar, Professor
Donna Klingner, Professor
Ralph G. Lewis, Associate Professor
Manny Lorenzo, Instructor
Carmen Mendez, Instructor
Gary Roberts, Assistant Professor
Allen Rosenbaum, Professor
Ann D. Witte, Professor
Barbara Yamold, 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 43 semester hours, consisting of ten required courses (31 semester hours), and a minimum of four courses within the specialization.

Core Courses

The MPA core consists of the following nine courses:

- PAD 6053  Political, Social and Economic Context of Public Administration 3
- PAD 5716L Information Systems for Public Organizations 1
- PAD 6701 Quantitative Methods and Computer Skills 4
- PAD 6706 Research Methods in Complex Public Organizations 3
- PAD 6106 Organizational Theory and Administrative Behavior 3
- PAD 6227 Public Finance and the Budgetary Process 3
- PAD 6417 Public Personnel Administration 3
- PAD 5256 Public Economics and Cost Benefit Analysis 4
- PAD 6056 The Practice of Public Management 3
- PAD 6305 Applied Policy Analysis and Management Science 4

PAD 5256, PAD 5716L, PAD 6701, PAD 6706, and PAD 6053 must be taken during the first 16 credit hours of course work. PAD 5716L, Information Systems for Public Organizations, is a prerequisite for PAD 6701; Quantitative Methods and Computer Skills, PAD 5256, is a prerequisite for PAD 6305.

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 'B' or better is required for every core course.

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.

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 three out of the following nine courses:

- PAD 5427 Collective Bargaining and the Public Sector 3
- PAD 5416 Social Equity and Human Resource Management 3
- PAD 5460 Productivity Improvement 3
- PAD 6109 Organizational Development 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 6436 Professionalism and Ethics 3
- PAD 5616 Contracting and Managing Third Party Governments 3

In addition to the above three courses, students must take:

PAD 6419 Seminar in Applied Personnel Systems 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 course from the Program 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 and Department of Economics:
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 5005  Comparative Economic Systems  3
ECS 5025  Economic Problems of Emerging Nations  3

Budget and Analysis
Students must take the following three courses:
PAD 6205  Public Financial Management  3
PAD 5616  Contracting and Managing Third Party Governments  3
PAD 6224  Advanced Seminar in Public Budgeting  3

Students must take one of the following two methods courses:
PAD 7705  Applied Quantitative Analysis  4
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 5838  Legal Issues in the Public Sector  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, economics, social work, or anthropology may do so under the following 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 24 semester hour core.

Other Students who wish to enroll in the graduate program in Public Financial Management offered in conjunction with The School of Accounting, will be required to complete 48 semester hours to earn the MPA. Students in this program may substitute a thesis in lieu of PAD 6056 to satisfy degree requirements.

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 MPA 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 operational 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 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 course work in Public Administration and the Program encourages applicants with diverse academic backgrounds.

Admission into the Ph.D. program will be granted to students of superior ability who have demonstrated a record of previous academic success, good potential for continued success in doctoral studies, and a desire to prepare for a career in which scholarship, research or analysis are major elements. To document these qualities applicants must complete a university application form and submit an official statement concerning the reasons for pursuing a Ph.D. in Public Administration, a current resume, official GRE test scores, official transcripts of previous college course work, three recommendations using the Program's recommendation form, and samples of written work. 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 1200 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 560 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 not 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 course work.
All incoming Ph.D. students will be given a diagnostic examination in quantitative methods. Students with identified deficiencies will be assigned remedial work specified by the Program.

Financial Aid

The objective of financial aid is to provide direct assistance to those students who require financial assistance to complete their doctoral programs, and to enhance the reputation of the program by attracting 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 assistance 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 assistancies 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 $1,500 per semester for non-residents), scholarships, loans, work-study programs and targeted scholarship information. Information on these and other opportunities are available through the University and College’s financial aid offices. Information about other financial aid opportunities is available through the University’s 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 (FAF) and the other University aid documents. Information on the university procedures is available in the financial aid office of the College of Urban and Public Affairs and in the University’s Financial Aid Office.

Degree Requirements

To obtain the degree, admitted students must complete at least 65 semester hours beyond the master’s degree, or its equivalent, including 41 semester hours of approved course work and 24 hours of dissertation work after admission to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment in the Ph.D. core curriculum. 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 tools 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PAD 7705</td>
<td>Advanced Quantitative Analysis</td>
<td>4</td>
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<tr>
<td>PAD 7707</td>
<td>Applied Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>PAD 7026</td>
<td>Conceptual Foundations of Public Administration and Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PAD 7102</td>
<td>Advanced Organization Theory and Public Management</td>
<td>3</td>
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</tbody>
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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.

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 ensure 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 advance candidacy for the Ph.D. Students who fail the Comprehensive Examination twice are automatically dismissed in accordance 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 formal work on the dissertation. During this time, the student is expected to make appropriate progress toward completing the dissertation, and to enroll continually (at least 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.

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 and societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present, and future is explored, through futurism and forecasting techniques.

PAD 5043 Government and Minority Group Relations (3). Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

PAD 5256 Public Economics and Cost Benefit Analysis (4). This course provides the quantitative and qualitative tools and case materials 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.

PAD 5416 Social Equity and Human Resource Management (3). The course deals with the human resource management issues arising from equity and affirmative action requirements in the workplace.

PAD 5427 Collective Bargaining in the Public Sector (3). The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

PAD 5435 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.

PAD 5443 The Public Administrator and Media Relations (3). Surveys the government-mass communication media relationship, and then concentrates on the ways in which public managers handle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

PAD 5460 Productivity Improvement (3). Provides measures to improve organizational and worker productivity using applied behavioral science.

PAD 5616 Contracting and Managing Third Party Governments (3). Analyzes the legal foundations, administrative and economic characteristics of government instrumentalities as they are used to pursue public policy. Analyzes how and why different combinations of instrumentalities are used in different policy areas.

PAD 5660C Applied Legal Context of Public Administrators (3). An overview of constraints and latitude the legal system grants to public administrators and managers. Provides the applied legal information required to make effective decisions in the public sector.

PAD 5661C Management of Court-Agency Relations (3). Examines applied judicial-administrative relations with particular emphasis on administrative policymaking. Covers the legal, environmental, and political factors that influence administrative strategies of policy and program compliance. Prerequisite: PAD 5838.

PAD 5716 Management Support Systems in Public Organizations (3). The course examines a variety of computer-based management support
applications used in public sector organizations. It also explores design and implementation issues endemic to the public sector.

PAD 5716L Information Systems for Public Organizations (3). This course will provide an overview of microcomputer and mainframe skills required for substantive coursework in personnel, budgeting, and other core public sector functions.

PAD 5934 Contemporary Issues in Public Administration (3). An analysis of major conceptual issues currently facing public administrators. May be repeated.

PAD 6042 Democracy and the Administrative State (3). Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy - in practice as well as in theory - will be analyzed, and their implications for public organizations and individual administrators examined.

PAD 6053 Political, Social and Economic Context of Public Administration (3). Examines the context in which public organizations operate, stressing the relationship between such organizations and their multi-faceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous coursework in analytic exercises related to students' areas of specialization. Prerequisites: Completion of MPA Core; last semester of coursework status.

PAD 6106 Organization Theory and Administrative Behavior (3). Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

PAD 6109 Organizational Development 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.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6224 Advanced Seminar in Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and appropri- ate methodological design for addressing them. Prerequisites: PAD 6227, PAD 6229, and PAD 6205.

PAD 6225 Comparative Public Budgeting (3). Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

PAD 6227 Public Finance and the Budgetary Process (3). Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in inter-governmental financial relations.

PAD 6229 Advanced Management Techniques (3). Explores quantitative revenue and expenditure models and other techniques which address public sector decision making under conditions of resource constraint. Prerequisites: PAD 5256, 6205 or permission of instructor.


PAD 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6015.

PAD 6417 Public 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.

PAD 6418 Seminar in Public Personnel Policy (3). This course examines ways in which values, functions, personnel systems and stake holders interact to influence the development of human resource policy and strategic human resource management capability in public agencies. Prerequisites: PAD 6417.

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.

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.

PAD 6437 Dynamics of Individual Growth (3). This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student, and will look at existential theory and the dilemma of personal growth.

PAD 6605 Administrative Law and Procedures (3). Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive
order process; the relationship between administrative law and the checks-and-balance system; discretionary justice; and others.

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 undergraduate or graduate equivalents.) Prerequisite: Previous or concurrent enrollment in PAD 5716L.

PAD 6706 Research Methods in Complex Public Organizations (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: PAD 6701.

PAD 6715 Public Monitoring Systems for Government Organizations (3). Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

PAD 6807 Urban and Municipal Government Administration (3). Detailed examination of problems facing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities. Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.

PAD 6816 Regional and State Government Administration (3). Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policy-making.

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 possibili-
Ph.D. program in public administration. Prerequisite: Ph.D. candidacy in Public Administration.

PUP 6006 Public Policy Analysis and Evaluation (3). A framework for evaluating public policy-making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

PUP 6015 Public Policy (3). An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, etc.) are examined.

School of Social Work

L. Yvonne Bacalis, Associate Professor and Associate Dean
Beverly Black, Assistant Professor
Betty Blythe, Professor and Graduate Coordinator
Stanley L. Bowles, Assistant Professor
Katharine Hooper Brier, Professor
Scott Brier, Professor
Laura Bronstein, Instructor and Field Coordinator
Milan J. Dluhy, Professor of Public Administration and Social Work
Mary Helen Hayden, Assistant Professor and Director of Field Instruction
Michael Kolivzan, Professor
Rosa Jones, Associate Professor
Monte Koppel, Professor
Welker Mitchell, Instructor and Director, Professional Development Center
Marilyn Potecky, Assistant Professor
Marla E. Pulig, Instructor
Magay Queralt, Associate Professor
Antoinette Rodgers, Assistant Professor
Florence Suffard, Associate Professor
Phyllis Singerman, Instructor and Graduate Field Coordinator
Betsy Smith, Associate Professor
Karen Sawers-Haag, Associate Professor and Undergraduate Coordinator
Tony Tripodi, Professor, Associate Director and Ph.D. Coordinator

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 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 practice 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 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.

A "B" average is required for graduation. Any required course in which a student receives a grade lower than "B" must be retaken. 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5105</td>
<td>Human Behavior and the Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5106</td>
<td>Human Behavior and the Social Environment II</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5125</td>
<td>Human Behavior and the Social Environment III</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5235</td>
<td>Social Welfare Policy I</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5236</td>
<td>Social Welfare Policy II</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5342</td>
<td>Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5344</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5404</td>
<td>Basic Research Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5532</td>
<td>Field Practicum I</td>
<td>6</td>
</tr>
<tr>
<td>SOW 5542</td>
<td>Integrative Field Seminar I</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective

Advanced Standing

Required Prerequisite Courses: (11)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5125</td>
<td>Human Behavior and the Social Environment III</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5236</td>
<td>Social Welfare Policy II</td>
<td>2</td>
</tr>
<tr>
<td>SOW 5344</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5541</td>
<td>Advanced Standing Practicum Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective: A Direct Practice Course

Following successful ("B" or better) completion of these prerequisite courses, advanced standing students are admitted to the second year.

Second Year

Services to the Elderly

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5641</td>
<td>Understanding the Process of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6245</td>
<td>Social Welfare Policy and Services for the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6649</td>
<td>Social Work Practice in Long Term Care and the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6359</td>
<td>Social Work Treatment with Families of the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6281</td>
<td>Legal Aspects of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6435</td>
<td>Evaluative Research in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6646</td>
<td>Social Work Practice with the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Field Practicum II</td>
<td>8</td>
</tr>
<tr>
<td>SOW 6543</td>
<td>Integrative Field Seminar II</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective

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 pro-
gram 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 fields.
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;
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 per semester 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 Work is a 64 semester hour program comprised of 11 required core courses, 3 required elective courses and 24 semester hours of dissertation study.

Course Offerings

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 7215</td>
<td>Social Welfare Policy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7237</td>
<td>Social Welfare Research Priorities I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7238</td>
<td>Social Welfare Research Priorities II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7494</td>
<td>Advanced Social Welfare Research (elective)</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7916</td>
<td>Supervised Research</td>
<td>6</td>
</tr>
<tr>
<td>SOW 7935</td>
<td>Advanced Seminar in Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7936</td>
<td>Dissertation Seminar in Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7939</td>
<td>Seminar on Social Work Education (elective)</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7980</td>
<td>Dissertation Research</td>
<td>24</td>
</tr>
<tr>
<td>PAD 5934</td>
<td>Cost Benefit Analysis (elective)</td>
<td>3</td>
</tr>
<tr>
<td>STA 5993</td>
<td>Intermediate Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5515</td>
<td>Statistical Methods for Health Services</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6756</td>
<td>Applied Programs Development and Evaluation Methods in Health Services</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6943</td>
<td>South Florida Area Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Descriptions

Definition of Prefixes

SOW - Social Work.

SOW 5105 Human Behavior and the Social Environment I (3). Study of individuals and families with emphasis on the analysis of bio-psycho-social-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 (including coverage of human biology).

SOW 5106 Human Behavior and the Social Environment II (2). Study of the psycho-socio-cultural dimensions of groups, organizations, and communities with attention to racial/ethnic and gender factors and with emphasis on how these systems affect and are affected by human behavior. Prerequisite: SOW 5105 or equivalent.

SOW 5109 Crises In The Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, rape, abortion, childbirth, sex discrimination, climacteric, 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 social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5109.

SOW 5235 Social Welfare Policy I (2). The study of a historical continuum of institutional mechanisms that carry out specific social welfare systems 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.

SOW 5236 Social Welfare Policy II (2). A study of the present institutional response to social problems and social policy evolution. Definitions, structure, and modes of financing are considered utilizing various models. Specific delivery systems, such as health, income maintenance, housing, corrections and child welfare, are explored. Evaluative criteria are further developed upon the framework used in Social Policy I. Prerequisite: SOW 5235 or equivalent.

SOW 5324 Social Group Work Practice (3). Application of principles of social group work practice in an ecological framework. Skills in creating groups, goal achievement, termination and evaluation are stressed. Analyzing issues of diversity. Prerequisite: SOW 5342 or permission of instructor.

SOW 5342 Social Work Practice I (3). Basic relationship building and inter-
viewing skills development, in context 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 opportunities to view social problems and social work practice with individuals, families and groups within a cross-cultural, multi-ethnic perspective. Prerequisite: SOW 5105.

SOW 5344 Social Work Practice II (3). This course is a continuation of SOW 5342. It includes application of change process theories, techniques, and intervention strategies dealing with groups, organizational systems, and communities. Prerequisite: SOW 5342 or equivalent. Corequisites: SOW 5542 and SOW 5532.

SOW 5354 Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or permission of instructor.

SOW 5404 Basic Research Methodology I (3). This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics.

SOW 5532 Field Practicum I (6). A supervised educational field experience in an agency setting for a minimum of 384-clock hours designed to provide students opportunities to develop and apply generic practice skills in working with individuals, families, groups and communities. Prerequisites: SOW 5105, SOW 5235, SOW 5342, Corequisites SOW 5106, SOW 5125, SOW 5236, SOW 5344, SOW 5542.

SOW 5541 Advanced Standing Practicum Seminar (1). Drawing on experiences from undergraduate fields practica, this seminar examines 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. Co- or Prerequisites: SOW 5125, SOW 5236, SOW 5344 and a direct practice course.

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.

SOW 5605 Medical Social Work (3). Principles of medical social work are applied 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.

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 5689 Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems and explores treatment intervention modalities. Prerequisite: Graduate or senior level practice course or permission of 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 Social 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.

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.

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. Corequisites: SOW 5641.

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.

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.

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 6352 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 6368 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.

SOW 6345 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 practice. Prerequisite: Admission to concentration, or permission of instructor.

SOW 6436 Empirically-Based Practice in Social Work (3). Advanced utilization of intervention effectiveness research results and techniques in social work practice with individual clients and groups. Prerequisite: SOW 6435 and an advanced practice course in a concentration.

SOW 6536 Field Practicum II (8). This field practicum is a 516-hour supervised educational experience in an agency setting designed to provide the student with an opportunity to develop and practice social work skills in the student’s area of concentration. Majors only. Prerequisites: Admission to concentration, SOW 6251 and three graduate courses in concentration. Corequisites: SOW 6543, and an advanced practice course.

SOW 6543 Integrative Field Seminar II (1). This bi-weekly field seminar is taken concurrently with the specialization field practicum in the concentration area. It 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 rich understanding of social service issues. Majors only. Prerequisites: SOW 6532 and SOW 6542. Corequisites: SOW 6535 and an advanced practice course in the concentration.

SOW 6611 Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples. Focus will be given to non-traditional change strategies such as family sculpting, family reenactment, family choreography and dramatization. Extensice use of video taped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisite: SOW 6361 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. Prereq- or Corequisite: SOW 5641 and admission to concentration.

SOW 6647 Advocacy in Social Work Practice (3). This course covers skills and knowledge necessary for the practice of advocacy on behalf of individuals and groups, including political, legislative, and organizational perspectives. Prerequisites: Admission to a concentration or permission of the instructor.

SOW 6649 Social Work Practice in Long Term Care and the Elderly (3). This course focuses on direct practice with the frail elderly and their families within the rapidly changing system of community and institutional long term care. Prerequisites: SOW 6641 and SOW 6646.

SOW 6655 Intervention Strategies with Children and Adolescents (3). This course will provide students with the opportunity to select, apply and evaluate appropriate intervention strategies in working with children and adolescents. Specific attention to socio-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.

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.

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.

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.

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.

SOW 7238 Social Welfare Research Priorities II (3). This course focuses on intervention research and methods at the community, organizational and societal level. Prerequisite: SOW 7237.

SOW 7492 Research Methods in Social Welfare I (3). Research pur-
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 75 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.

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

Core Required Courses

- 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

Optional Courses

Select one of the following courses: substitution may be made with the approval of the faculty adviser.

- CCJ 5605 Deviance and Social Control
- CCJ 5935 Special Topics
- CCJ 6477 Seminar in Information Systems

Law and Criminal Justice Certificate

The Law and Criminal Justice academic certificate is designed to provide legally-conscious students with concepts and information utilized by law professionals. Study shall include casework, procedures, court processes, research methods, and other introductory 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
Health Services Administration

Certificate in Gerontology
The objective of the certificate is to provide graduate students and qualified practitioners in the field of aging with a range of gerontological courses leading to a specialization in gerontology to supplement their chosen disciplines. Through provision of an in-depth understanding of the bio-socio-psychological nature of the aging process, and the relation of political and economic resources, the program’s long range objective is to increase the knowledge and sensitivity of professionals in this area, and thereby improve the service delivery system for the increasingly large population of elderly Floridians.

Admission
Students must have a bachelor’s degree and be admitted to the program by the Program Coordinator who will serve as their faculty advisor.

Program of Study: (18)
SOW 5643 Understanding the Process of Aging 3
NGR 5200 Physical Change and Healthy Aging 3

The balance of four courses to be selected from the following areas of concentration. Students who have not had direct practice with older people will be required to select an Individual Study course which will include 225 hours of practicum experience.

Long Term Care Administration
HSA 5225 Long Term Care Management I 3
HSA 5226 Management in Long Term Care 3
HSA 5227 Long Term Care Management II 3
HSA 5454 Ethical Decision Making in Health Services Administration 3
HSA 5816 Practicum in Long Term Care Management 3

Aging and Rehabilitation
OTH 5600 Study of Gerontology as Related to Occupational Therapy 3
OTH 5613 Interdisciplinary Approach to Aging 3

OTH 5630 Occupational Therapy Assessment of the Elderly 3
OTH 5764 Research (topic selected in Geriatric Clinical Specialty) 3
OTH 5905 Independent Study (variable credit) 3
PTH 6238 Motor Development: Adult Through Geriatrics 3
PTH 6239 Adult Congenital Handicapping Conditions 3

Psychology of Aging
DEP 5404 Proseminar in Psychology of Adulthood and Aging 3
DEP 6438 Gerontological Assessment 3
DEP 6465 Psychology of Culture and Aging 3
DEP 6446 Cognitive Processes of Aging 3

Social Work Practice with Older Persons
SOW 5605 Medical Social Work 3
SOW 5845C Counseling the Elderly 3
SOW 5905 Individual Study 1-3
SOW 6245 Social Welfare Policy and Services for the Elderly 3
SOW 6247 Housing and Environmental Needs 3
SOW 6359 Social Work Treatment with Families 3
SOW 6646 Social Work Practice with Elderly 3
SOW 6647 Advocacy in Social Work Practice 3
SOW 6649 Social Work Practice in Long Term Care and the Elderly 3

Social Work Practice with Older Persons
SOW 5605 Medical Social Work 3
SOW 5845C Counseling the Elderly 3
SOW 5905 Individual Study 1-3
SOW 6245 Social Welfare Policy and Services for the Elderly 3
SOW 6247 Housing and Environmental Needs 3
SOW 6359 Social Work Treatment with Families 3
SOW 6646 Social Work Practice with Elderly 3
SOW 6647 Advocacy in Social Work Practice 3
SOW 6649 Social Work Practice in Long Term Care and the Elderly 3

Education
ADE 5195 Designing Education and HRD Programs for Disadvantaged Adults 3

Criminal Justice
CCJ 5935 Special Topics: Crime and the Elderly 3

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
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 will have to be taken from the following in the College of Business Administration:
FIN 6626 International Bank Lending and Practices 3
FIN 6636 International Finance 3
MAN 6603 Problems in Comparative Management 3

One course must be taken from the following in the Economics Department:
ECS 5025 Economic Planning 3
ECS 5005 Comparative Economic Systems 3
ECS 5027 Economic Problems of Emerging Nations 3

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-analytic 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-
Phasizes 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 also serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

**Note:** Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward an outside specialization in Human Resource Policy and Management. However, if students have enrolled in more than one certificate program, a maximum of 18 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

**PAD 6109** Organizational Development 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 Governments 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 also 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 18 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 Bank Lending and Practice 3

**FIN 6636** International Force 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

**ECS 5027** Economic Problems of Emerging Nations 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 conceptual 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 the 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 L. Yvonne Bacierisse
Assistant Dean and Director of Administration and Budget Manuel Lorenz

Faculty

Ahern, Melissa, Ph.D., (Florida State University), Assistant Professor, Health Services Administration
Askew, Reubin, Law (University of Florida), Distinguished Visiting Professor, Public Administration
Averch, Harvey, Ph.D. (University of North Carolina), Professor, Public Administration
Bacierisse, L. Yvonne, M.S.W., A.C.S.W., L.C.S.W. (Tulane University), Associate Professor, Social Work and Associate Dean
Becker, Fred, Ph.D. (University of Oklahoma), Associate Professor, Health Services Administration
Bergwall, David, D.B.A. (George Washington University), Associate Professor, Health Services Administration
Black, Beverly, Ph.D. (University of Texas, Austin), Assistant Professor, Social Work
Blythe, Betty, Ph.D. (University of Washington), Professor, Social Work
Bowie, Stan, Ph.D. (Barry University), Assistant Professor, Social Work
Brat, Katharine Hooper, D.S.W., A.C.S.W. (University of California, Berkeley), Professor, Social Work and Director, RIU-HRS CFV Professional Development Centre and The Institute for Children and Families
Brat, Scott, D.S.W., A.C.S.W., Columbia University), Professor, Social Work
Bronstein, Laura, University at Albany, SUNY, New York), Instructor, Social Work
Carroll, James, Ph.D. (Maxwell School, Syracuse University), J. D. (Syracuse University), Professor, Public Administration
Clark, Robert S., Ph.D. (New York University), Professor, Criminal Justice
Cohn, Ellen, Ph.D., (University of Cambridge), Assistant Professor, Criminal Justice
Deckard, Gloria, Ph.D. (University of Missouri), Assistant Professor, Health Services Administration
Dluhy, Milan J., Ph.D. (University of Michigan), Professor, Public Administration
Dunay, Thomas M. Dr. P.H., (U.C.I.A.), Professor, Health Services Administration
Dunlop, Burton, Ph.D. (University of Illinois), Associate Professor, Health Services Administration, Research Director, Southeast Florida Center on Aging
Foster, Rosebud, Ed.D. (University of Miami), Professor, Health Services Administration
Frank, Howard, Ph.D. (Florida State University), Associate Professor, Public Administration and MPA Coordinator
Garcia-Zamor, Jean-Claude, Ph.D. (New York University), Professor, Public Administration
Haden, Mary Helen, M.S.W., A.C.S.W., L.C.S.W. (Florida State University), Assistant Professor, Social Work and Director of Field Instruction
Jones, Rosa L., D.S.W., A.C.S.W., L.C.S.W. (Howard University), Associate Professor, Social Work
Karak, Suman, Ph.D. (University of Florida), Assistant Professor, Criminal Justice
Klingner, Donald, Ph.D. (University of Southern California), Professor, Public Administration
Kolevzon, Michael S., D.S.W. (University of California, Berkeley), Professor, Social Work
Koppel, Monte H., Ph.D. (New School for Social Research), Professor, Social Work
Lewis, Ralph G., Ed.D. (Harvard University), Associate Professor, Public Administration
Lorenzo, Manuel, M.P.A. (Florida International University), Instructor, Public Administration
Marques, Jose A., M.S.W., A.C.S.W. (Barry University), Associate Professor, Criminal Justice
Mendez, Carmen, M.P.A. (Florida International University), Instructor, Public Administration
Newman, Frederick, Ph.D. (University of Massachusetts), Professor, Health Services Administration
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Potocky, Miriam, Ph.D. (University of Kansas), Assistant Professor, Social Work
Pulg, Maria E., M.S.W. (Florida International University), Lecturer, Social Work and Coordinator Title IV-E Program
Queralt, Magaly, Ph.D. (University of Miami), Associate Professor, Social Work
Roberts, Gary, Ph.D. (University of Pittsburgh), Assistant Professor, Public Administration
Rodgers, Antoinette, Ph.D. (University of Pittsburgh), Assistant Professor, Social Work
Rosenbaum, Allan, Ph.D. (University of Chicago), Professor, Public Administration, and Director, Institute for Public Management and Community Services
Rosenberg, Mark, Ph.D. (University of Pittsburgh), Professor, Political Science and Acting Dean
Rothman, Max, J.D., LLM (George Washington University), Senior Lecturer, Health Services Administration, Director, Southeast Florida Center on Aging
Safford, Florence, D.S.W. (Hunter College), Associate Professor, Social Work
Salas, Luis P., J.D. (Wake Forest University), Professor, Criminal Justice, and Director, Center for the Administration of Justice
Shean, Regina B., Ph.D. (Florida State University), Associate Professor, Criminal Justice
Silverstein, Gall, Ph.D., (Arizona State University), Assistant Professor, Health Services Administration
Singerman, Phyllis, M.S.W. (Columbia University), Instructor, Social Work
Smith, Betsy A., Ph.D. (State University of New York at Buffalo), Associate Professor, Social Work
Snow, Robert E., J.D. (Florida State University), Associate Professor, Criminal Justice
Sowers-Hoag, Karen, Ph.D., A.C.S.W. (Florida State University), Associate Professor, Social Work and Undergraduate Program Coordinator
Surette, Raymond, Ph.D. (Florida State University), Professor, Criminal Justice
Terry, W. Clinton, Ph.D. (University of California), Associate Professor, Criminal Justice
Tripodi, Tony, D.S.W. (Columbia University), Professor and Ph.D. Coordinator, Social Work
White, Vaidon E., Ph.D. (Purdue University), Professor, Health Services Administration
Wilbanks, William, Ph.D. (State University of New York), Professor, Criminal Justice
Witte, Ann D., Ph.D. (North Carolina State University), Professor, Public Administration

Yarnold, Barbara, Ph.D. (University of Illinois), J.D. (DePaul University), Assistant Professor, Public Administration
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Florida International University

University Park
Miami, Florida 33199

North Miami Campus
North Miami, Florida 33161

Broward Center
at Broward Community College/Central Campus
Building 12
3501 SW Davie Road
Davie, Florida 33314

University Tower
220 SE 2nd Avenue
Room 822
Fort Lauderdale, Florida 33301