1993

Graduate catalog (Florida International University). [1993-1994]

Florida International University

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Florida International University

1993-1994 Graduate Catalog
Florida International University
Member of the State University System
Miami, Florida

1993 - 1994 Graduate Catalog

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

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

The ultimate responsibility for knowing degree requirements and the requirements imposed upon students by State law rests with the students.

This public document was produced at a cost of $27,955 or $1.40 per copy to inform the public about University Programs.

Fees given in this catalog are tentative pending legislative action.
ACADEMIC CALENDAR 1993-1994*

Fall Semester 1993

April 1  Last day for International Students to submit applications for Fall Term admission.
June 1  Last day to submit applications for Fall Term admission (except International students).
        • Last day for International Students to submit all required supporting documents for Fall Term admission.
July 8-9  Freshman Orientation Sessions
July 12-13 Freshman Orientation Sessions
July 15-16 Freshman Orientation Sessions
July 19-20 Freshman Orientation Sessions
July 23  Transfer Student Orientation Sessions.
July 26-30 Control Cards available for student pick-up.
        • Short Term Tuition Loan Applications available to students planning to register.
August 2-6  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
August 9-13  Open Registration Week.
August 11  Last day for students already registered to apply for Short Term Tuition Loans.
August 13  Last day (by 5 p.m.) to pay tuition and fees to retain registered courses.
        • Last Day (by 5 p.m.) to apply for graduation at the end of Fall 1993 semester.
        • Last day for Financial Aid recipients to validate class schedules to retain registered courses.
        • Last day for students already registered to sign Short Term Tuition Loan promissory notes and validate class schedules.
August 21  Housing Check-in 9 a.m. to 8 p.m.
        • Telephone Registration available.
August 23  Short Term Tuition Loan Applications available to students planning to register on Registration Day.
August 23-24 Freshman Orientation Sessions.
August 25  Transfer Student Orientation.
August 26-27 Registration Days (See Class Schedule for registration times)
        • Last day to register without incurring a $100.00 late registration fee.
August 30  Classes Begin.
September 1  Last day for students who registered on or after Registration Day to apply for Short Term Tuition Loans.
Aug., 30-Sept. 3  Registration for State Employees using fee waivers.
September 3  Last day (by 5 p.m.) to complete Late Registration
        • Drop/Add Period ends at 5 p.m.
        • Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
        • Last day to change grading option.
        • Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
        • Last day for Financial Aid recipients who registered on Registration Day to validate class schedules to retain registered courses.
        • Last day for students who registered on Registration Day to sign Short Term Tuition Loan promissory notes.
        • Last day to register for the October 2nd CLAST exam.
September 6  Labor Day Holiday (University closed).
September 16-17  Rosh Hashanah (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.)
September 24  Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
September 25  Yom Kippur (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.)
October 1  Faculty Convocation.
October 2  CLAST Test.
October 22  Last day (by 5 p.m.) to drop a course with a DR grade.
        • Last day (by 5 p.m.) to withdraw from the University with a WI grade.
November 11  Veterans' Day Holiday (University closed).
November 25-27  Thanksgiving Holiday (University closed).
December 3  Last day (by 5 p.m.) to apply for graduation at the end of the Spring 1994 semester.
December 10  Classes End.
December 11 - 17  Official Examination Period.
December 20  Commencement Exercises.
December 21  Grades due.
December 23  Grades Mailed to Students.
December 24  Christmas Holiday (University Closed).

Spring Semester 1994

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 1</td>
<td>Last day for International Students to submit applications for Spring Term admission.</td>
</tr>
<tr>
<td>October 1</td>
<td>Last day to submit applications for Spring Term admission (except international students). Last day for International Students to submit all required supporting documents for Spring Term admission.</td>
</tr>
<tr>
<td>November 4 - 5</td>
<td>Freshmen Orientation Sessions</td>
</tr>
<tr>
<td>November 8 - 12</td>
<td>Control Cards available for pick-up. Long Term Tuition Loan Applications available to students planning to register for Spring Term.</td>
</tr>
<tr>
<td>November 12</td>
<td>Transfer Student Orientation Session</td>
</tr>
<tr>
<td>November 15 - 19</td>
<td>Official Registration Week (Degree-Seeking Students only) by appointment time and day.</td>
</tr>
<tr>
<td>November 21</td>
<td>Telephone Registration continues. (Check Schedule of Classes for days and times.)</td>
</tr>
<tr>
<td>Nov. 29 - Dec. 3</td>
<td>Open Registration.</td>
</tr>
<tr>
<td>December 3</td>
<td>Last day (by 5 p.m.) to pay tuition and fees to retain registered courses. Last day for Financial Aid recipients to validate class schedules to retain registered courses. Last day for students already registered to sign Short Term Tuition Loan promissory notes and validate class schedules. Last day (by 5 p.m.) to apply for graduation at the end of the Spring 1994 semester.</td>
</tr>
<tr>
<td>December 8</td>
<td>Last day for students already registered to apply for Short Term Tuition Loans.</td>
</tr>
<tr>
<td>December 27</td>
<td>Telephone Registration available.</td>
</tr>
<tr>
<td>December 31</td>
<td>New Year’s Day (University Closed).</td>
</tr>
<tr>
<td>January 3</td>
<td>Short Term Tuition Loan Applications available to students registering on Registration Day.</td>
</tr>
<tr>
<td>January 4</td>
<td>Housing check-in 9 a.m. - 8 p.m.</td>
</tr>
<tr>
<td>January 6, 7</td>
<td>Registration Days (Check Class Schedule for registration times) Last days to register without incurring a $100.00 late registration fee.</td>
</tr>
<tr>
<td>January 10</td>
<td>Classes Begin.</td>
</tr>
<tr>
<td>January 12</td>
<td>Registration for State Employees using fee waivers.</td>
</tr>
<tr>
<td>January 14</td>
<td>Last day (by 5 p.m.) to complete Late Registration. Drop/Add Period ends at 5 p.m. Last day to change grading option. Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability. Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment. Last day for Financial Aid recipients who registered on or after Registration Day to validate class schedules to retain registered courses. Last day for students who registered on or after Registration day to sign Short Term Tuition Loan promissory notes and validate class schedules.</td>
</tr>
<tr>
<td>January 17</td>
<td>Martin Luther King Holiday (University Closed).</td>
</tr>
<tr>
<td>January 21</td>
<td>Last day to register for the February 19th CLAST exam.</td>
</tr>
<tr>
<td>February 4</td>
<td>Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td>February 19</td>
<td>CLAST Test.</td>
</tr>
<tr>
<td>Feb. 28 - March 5</td>
<td>Spring Break.</td>
</tr>
<tr>
<td>March 11</td>
<td>Last day (by 5 p.m.) to drop a course with a DR grade. Last day (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>March 28 - 29</td>
<td>Passover (No examinations or major quizzes may be given during the designated hours. Jewish holidays begin 4 p.m. the day before the holiday and end at 7 p.m. the day of the holiday.)</td>
</tr>
<tr>
<td>April 1</td>
<td>Good Friday (No examinations or major quizzes may be given during the designated hours.) Passover (No examinations or major quizzes may be given during the designated hours. Jewish holidays begin 4 p.m. the day before the holiday and end at 7 p.m. the day of the holiday.)</td>
</tr>
</tbody>
</table>
April 22       Classes End.
             • Last day (by 5 p.m.) to apply for graduation at the end of the Summer 1994
April 23 - 29 Official Examination Period.
May 2        Commencement Exercises.
May 3        Grades due.
May 5        Grades Mailed to Students.

Complete Summer Semester 1994
February 1   Last day for International Students to submit applications for Summer Term admission.
March 1      Last day to submit applications for Summer Term admission (except International students).
             • Last day for International Students to submit all required supporting documents for Summer Term admission.
March 25     Transfer Student Orientation Complete Summer Term and Summer Term A.
April 4 - 8  Control Cards available for pick-up.
             • Short Term Loan Applications available to students planning to register for Summer Term.
April 11 - 15 Official Registration Week (Degree-Seeking Students only) by appointment time and day.
April 18 - 22 Open Registration.
April 20     Last day to apply for Short Term Tuition Loans for students already registered.
April 22     Last day (by 5 p.m.) to pay tuition and fees to retain registered courses.
             • Last Day for Financial Aid recipients to validate class schedules to retain registered courses.
             • Last day for students already registered to sign Short Term Tuition Loan promissory notes and validate class schedules.
             • Last day (by 5 p.m.) to apply for graduation at the end of the Summer 1994 semester.
April 29     Short Term Tuition Loan Applications available to students who plan to register on Registration Day.
May 3       Housing Check-in 9 a.m. to 8 p.m.
May 4       Telephone Registration
May 5 - 6    Registration Day (See Class Schedule for registration times).
May 6       Last day to register for the June 4th CLAST exam.
May 9       Classes Begin.
May 9 - 13   Registration for State Employees using fee waivers.
May 11      Last day for students who registered on Registration Day to apply for Short Tuition Loans.
May 13      Last day (by 5 p.m.) to complete Late Registration.
             • Drop/Add Period ends at 5 p.m.
             • Last day to change grading option.
             • Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
             • Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
             • Last day for Financial Aid recipients to validate class schedules to retain registered courses on Registration Day.
             • Last day for students who registered on or after Registration day to sign Short Term Tuition Loan promissory notes and validate class schedules.
May 30      Memorial Day Holiday (University closed).
June 3      Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.
June 4      CLAST Test.
July 1       Last day (by 5 p.m.) to drop a course with a DR grade.
             • Last day to withdraw from the University with a WI grade (by 5 p.m.)
July 4       Independence Day Holiday (University closed).
August 12    Last day (by 5 p.m.) to apply for graduation at the end of Fall 1994 semester.
August 17    Classes End.
August 22    Grades due.
August 24    Grades Mailed to Students.

Summer Term A
March 25     Transfer Student Orientation Session All Summer Sessions.
April 8 - 9  Freshman Orientation Sessions.
May 5       Telephone Registration.
             • Last day to register for the June 4th CLAST exam.
May 5 - 6    Registration Day.
May 9       Classes Begin.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 9 - 13</td>
<td>Registration for State Employees using fee waivers.</td>
</tr>
<tr>
<td>May 14</td>
<td>Last day (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>• Last day to change grading option.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.</td>
</tr>
<tr>
<td></td>
<td>• Last Day for Financial Aid recipients to validate class schedules to retain registered courses.</td>
</tr>
<tr>
<td>May 30</td>
<td>Memorial Day Holiday (University closed).</td>
</tr>
<tr>
<td>June 3</td>
<td>Last day (by 5 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>June 4</td>
<td>CLAST Test.</td>
</tr>
<tr>
<td>June 24</td>
<td>Classes End.**</td>
</tr>
<tr>
<td>August 12</td>
<td>Last day (by 5 p.m.) to apply for graduation at the end of Fall 1994 semester.</td>
</tr>
<tr>
<td>August 24</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 23 - 24</td>
<td>Freshmen Orientation Sessions.</td>
</tr>
<tr>
<td>June 27</td>
<td>Registration Day.</td>
</tr>
<tr>
<td>June 30</td>
<td>Classes Begin.</td>
</tr>
<tr>
<td>June 30 - July 7</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 7</td>
<td>Last day (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>• Last day to change grading option.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.</td>
</tr>
<tr>
<td></td>
<td>• Last Day for Financial Aid recipients to validate class schedules to retain registered courses.</td>
</tr>
<tr>
<td>July 22</td>
<td>Last day (by 5 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to withdraw from the University with a 25% refund of tuition less bonding fees.</td>
</tr>
<tr>
<td></td>
<td>• Last day (by 5 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>August 12</td>
<td>Last day (by 5 p.m.) to apply for graduation at the end of Fall 1994 semester.</td>
</tr>
<tr>
<td>August 17</td>
<td>Classes End.</td>
</tr>
<tr>
<td>August 22</td>
<td>Grades Due.</td>
</tr>
<tr>
<td>August 24</td>
<td>Grades Mailed to Students.</td>
</tr>
</tbody>
</table>

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

**Grades will not be posted on transcripts, and graduation will not be processed until the end of the Complete Summer Term, August 17.
General Information

State Board of Education
Lawton Chiles Governor
Jim Smith Secretary of State
Robert Butterworth Attorney General
Gerald Lewis Comptroller
Bob Crawford Commissioner of Agriculture
Betty Castor Commissioner of Education
Tom Gallagher Treasurer

Florida Board of Regents
Hon. Alec P. Courtells Chairman, Miami
Hon. Carolyn K. Roberts Vice-Chairman, Ocala
Hon. DuBose Ausley Tallahassee
Hon. J. Clift Brown Tampa
Hon. Betty Castor Commissioner of Education
Hon. Charles B. Edwards, Sr. Fort Myers
Hon. Perla Hantman Miami Lakes
Hon. James F. Heekin, Jr. Orlando
Hon. Cecil B. Keene St. Petersburg
Hon. Elizabeth Lindsay Sarasota
Hon. Jon C. Miley West Palm Beach
Hon. Thomas P. Petway III Jacksonville
Hon. Welcom H. Watson Fort Lauderdale
Hon. Sean A. Pittman Student Regent
Hon. Charles B. Reed Chancellor, State University System

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 North Miami Campus
Michael P. Morgan Vice President for University Relations and Development
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 succeeded in June, 1976 by President Harold Brian Crosby. Gregory Baker Wolfe was named the third president in February, 1979. Modesto A. (Mitch) Maidique was named the fourth President of Florida International University on August 27, 1986. Maidique received his Ph.D. in Electrical Engineering from the Massachusetts Institute of Technology and was associated with MIT, Harvard, and Stanford for 20 years.

Goals
Florida International University (FIU), a comprehensive, multi-campus urban research institution, is committed to providing both excellence and access to all qualified students desiring to pursue higher education. FIU offers a comprehensive undergraduate liberal arts education structured around a rigorous core curriculum. The University 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 including a recently completed $7 million College of Business Administration building. The campus development plan envisions four major expansion phases to the Library building, planned as a 14 story tower, beginning with the $11 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 Biology Greenhouse and Conservatory to be completed in 1993; a $7.5 million Education building to be completed in 1994; 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 522 students, and the Library with a capacity of 500 seats and 232,000 volumes, classrooms, a modern foreign language
laboratory and an instructional media laboratory. 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 Student Health/Wellness Center to be completed in 1993 and a Child Care Center also to be completed by 1993. Future development plans envision a $2 million project to complete classroom and lab space in the Hospitality Management building; a new $9 million Public Affairs/Journalism building; and a new $1 million Community Conference Center.

**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 180 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 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
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 and Human Resource Development
- 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
- 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
- Vocational Education (majors in Administration, Supervision, and Technical and Vocational Industrial Education)
- Education Specialist (Ed.S.)
- Curriculum and Instruction
- Educational Leadership
- School Psychology
- Doctoral Programs (Ed.D.)
- Adult Education and Human Resource Development
- Community College Teaching
- Curriculum and Instruction
- Educational Leadership
- Exceptional Student Education

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

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

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

Broward County Programs

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

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

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

School of Public Affairs and Services
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

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
- American Studies
- Consumer Affairs
- Environmental Studies
- Ethnic Studies
- Gerontological Studies
- International Studies
- Labor Studies
- Latin American and Caribbean Studies
- Linguistic Studies
- Western Social and Political Thought
- Women's Studies

Professional Certificates in:
- Labor Studies and Labor Relations
- 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:
- Advanced Apparel Design
- Apparel Production Management
- Retailing Management
- Heating, Ventilation, and A/C Design
- Industrial and Labor Relations
- Industrial Safety Production and Manufacturing

Academic Certificate in Management and Consumer Affairs.

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

School of Public Affairs and Services
Professional Certificates in:
- Gerontology
- Human Resource Policy and Management
- International Comparative and Development Administration
- Justice Administration and Policy Making
- Public Management

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 from an accredited institution.

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

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

Foreign graduate applicants are accepted subject to space and fiscal limitations. In addition to the above University admission requirements, foreign applicants must be academically eligible for further study in their own country and must demonstrate proficiency in the English language by presenting a minimum score of 500 or higher on the Test of English as a Foreign Language (TOEFL). However, other departments may require a higher TOEFL. Applicant must check the individual departmental requirements. For TOEFL information contact: TOEFL Program, P. O. Box
other institution beyond a bachelor's degree.

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

a. the student received a grade of 3.0 or better on a 4.0 scale
b. the course was taken at an accredited institution
c. the course was relevant, as judged by the admissions committee of the department or program, to the graduate program in which the student is accepted
d. the course is listed on an official transcript received by the Office of Admissions
e. the course was completed within the six years preceding admission to the program (does not apply to credits earned as part of a completed graduate degree)

International Admissions

Graduate Admission Standards and Procedures

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

Academic Records

Appropriate official transcripts and their English translations validated by an official public translator, and all other appropriate credentials, must be forwarded to the Office of Admissions.

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 F-20A) will be issued once the applicant has been found admissible to the university.

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

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

Refer to the Annual Estimate of Cost Chart for more information. A married student should plan on an additional $4,800 in costs to cover the living expenses of a spouse.

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

Medical Insurance

The State of Florida requires that all international students maintain health insurance coverage to help defray the costs in case of catastrophic medical emergency. The policy must provide specific levels of coverage which have been established to ensure that the policy is adequate to provide for costs at U.S. hospitals, usually much higher than costs in many other parts of the world. In addition, a policy must have a claims agent in the United States who may be contacted by medical providers and who facilitates prompt payment of claims.

The University has approved a plan which meets the state requirements and which meets the needs of most students; however, a student may...
select alternate coverage provided it meets the state requirements for minimal coverage. A copy of these requirements is available from the Office of International 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 in a minimum of nine semester hours.

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

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

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

Employment
The legal regulations governing F-1 student employment are complex, and advisors are available in the Office of International 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 only after maintaining F-1 status for at least one full academic year. Employment is authorized only after the employer files a labor attestation with the U.S. Department of Labor, certifying that he or she has attempted to find a qualified U.S. citizen or permanent resident to fill the job vacancy but has been unable to do so. Off-campus employment opportunities are not readily available, and students should not rely on off-campus employment as a source of income to finance their studies.

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

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

All correspondence and document submissions should be directed to: Office of Admissions, Florida International University, PC 140, University Park, Miami, Florida 33199 U.S.A., telephone: (305) 348-2363.

Credit For Non-College Learning
Graduate credit will not be awarded for life experiences.

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

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

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

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

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

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

Classification of Students

The University classifies students as follows:

Degree-Seeking Students

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

Graduate - Students admitted to a graduate program.

Post Graduate - Students admitted to a doctoral program.

Non-Degree-Seeking Students

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

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

3. No more than 15 undergraduate level and 12 graduate level semester hours earned as a non-degree-seeking student may be counted toward a degree. The appropriate Dean must approve the acceptance of such credit.

4. Non-degree-seeking students will not be allowed to register for more than one term without obtaining admission to a degree program at the University; obtaining admission into a formal certificate program; or 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 concerned that all requirements of the degree being sought have been completed.

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

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

Doctoral Degree

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

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

2. Completion of the residency and time limitation requirements.


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

Academic Definitions

Program and Course Regulations

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

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

Electives: Students may 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-L 60, 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 is held during the preceding semester (check the Academic Calendar for the dates) and ends one week later. Degree-seeking students are given an appointment day and time based on their classification, GPA, and credit hours completed. Students may also add/drop at this time.

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

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

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

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

Immunization
To register for courses, students 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 calendar 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 submit appropriate documentation of such. The instructor will designate whether the student was passing or failing the course at the time of the appeal to drop. 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 period will contain no reference to the student being registered that semester and no tuition fee is 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 contain a ‘F’ for each course.

The transcript of a student who stops attending the University without officially withdrawing from the University will contain 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 of such. 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 or the term.
Grading System

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<th>Grade Points Per Credit Hour</th>
<th>Grade Points</th>
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<tbody>
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<tr>
<td>A-</td>
<td>3.67</td>
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<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
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<td>3.00</td>
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<tr>
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<tr>
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<tr>
<td>IN Incomplete</td>
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</tr>
<tr>
<td>WI Withdrew from University</td>
<td>N/A</td>
</tr>
<tr>
<td>WP Withdrew from University</td>
<td>N/A</td>
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</tbody>
</table>

Grading Options

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

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

Incomplete Grade

An incomplete grade is a temporary symbol given at the discretion of the instructor for work not completed because of serious interruption not caused by the student's own negligence. An incomplete must be made up within 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 a student may repeat a limited number of courses to improve his or her grade point average (GPA) by having only the grade received on the last repeat used in its calculation. Under the University's forgiveness policy, a student must file a Repeated Course Form with the Office of the Registrar. The form must be submitted no later than one year after the semester in which the grade was received. There is no time limit on the use of the forgiveness policy for grades. All courses taken with the grades earned will be recorded on the student's transcript. The repeated course form will not be processed if the first or repeated grade received is 'DR', 'DP', 'WI', 'WP', 'AU', 'NR', or 'EM'. Repeated courses will be appropriately designated (T: attempted; R: last repeat).

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

A course taken on a letter grade basis must be repeated on the same basis. A student 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.). If a student is not using the forgiveness policy, he or she may still repeat a course. All attempts will apply to computation of the GPA but credit for one attempt will apply toward graduation. Students must check with the appropriate academic department to determine whether there are additional restrictions on repeating courses.

Departmental Credit by Examination

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

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

Change or Correction of Grades

Once submitted, end-of-semester grades (except Incompletes and NR's, which default at the end of two terms) are final. They are subject to change only through a Change of Grade Form to correct an error in computation or transcribing, or where part of the student's work has been unintentionally overlooked.

Final Examinations

Final examinations will be given during the week following the last day of classes during each semester. The Summer semesters do not have final examination periods and course examinations may be given at the discretion of the faculty member teaching the course.

Grade Reports

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

Application for Graduation

Students who plan to graduate are required to submit to the Office of the Registrar an Application for Graduation form. This form must be submitted before the end of the eight week of classes of the academic semester prior to graduation. Students turning in the Application for Graduation after the deadline
will graduate the following semester. There is no charge for applying for graduation. The Application for Graduation must be signed by the academic advisor prior to being submitted to the Office of the Registrar.

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

**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.

**Student Records**

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

**Release of Student Information from Educational Records**
The 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:

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

1. Performance of administrative tasks which relate to students;
2. Performance of supervisory or instructional tasks which relate to students; or
3. Performance of services which benefit students.

A student's prior consent is not required for disclosure of portions of the educational record defined by the institution as Directory information. 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. Photographs.

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

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

**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. There is a charge of $5.00 per transcript.

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

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

Because there are some classes and other functions where attendance may be considered essential, the following policy is in effect:

1. Each student shall, upon notifying his or her instructor, be excused from class to observe a religious holy day of his or her faith.

2. While the student will be held responsible for the material covered in his or her absence, each student shall be permitted a reasonable amount of time to make up any work missed.

3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.

4. Professors and University administrators shall not penalize students arbitrarily who are absent from academic or social activities because of religious observances.

Veterans Information
The Office of Veterans Affairs assists all veterans and their dependents who wish to receive VA educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs. The VA Office is located in PC 130, University Park; and in ACI-160, North 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

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

Rate of Payment

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

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

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

Enrollment Status
Graduate:
Full time: 9 credits or more.
Half time: 6-8 credits.
Less than half time: 5 credits or less.
The above enrollment status is for continuous enrollment for the semester that the student is attending. Reduction of course load will reflect the student's status. See certification office for further details.

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

To qualify as a Florida Resident, the student must:
1. Be a U.S. Citizen, Resident Alien, parolee, Cuban National, Vietnamese Refugee, or other legal alien so designated by the U.S. Immigration and Naturalization Service.
2. Have established a legal residence in this State and have maintained that legal residence for 12 months immediately prior to the start of the term in which the student is seeking Florida resident classification. The student's residence in Florida must be 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 bono fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which resident status is sought):
      1. Declaration of Domicile.
      2. Florida Voter's registration.
      3. Florida Driver's license.
      4. Proof of real property ownership in Florida (e.g., deed, tax receipts).
      5. Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on 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.
      11. Proof of admission to a licensed practicing profession in Florida.
      13. Proof of graduation from high school located in Florida.
      14. Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the Individual is a bona fide Florida
resident, including the age and general circumstances of the individual.

c. No contrary evidence establishing residence elsewhere.

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

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

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

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

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

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

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

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

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. Instructions on how to apply for financial aid are listed under Application Procedures for Financial Aid. The Financial Aid Office is located in PC 125, University Park, and in AC1-160, North Miami Campus. The phone number for both campuses is 348-2431.

Loans

Federal Perkins Loan (formerly NDSL): This is a federally funded loan in which graduate students are allowed to borrow an aggregate amount of $30,000 for their graduate studies including any loans received at the undergraduate level.

There is no interest on the loan while the student is enrolled at least part-time. Repayment begins at a 5% interest six months after the student ceases to enroll at an institution of higher education. Maximum repayment time is 10 years and a minimum payment of $30 per month is required.

Borrowers who work in specially designated jobs or geographical areas may have part or all of their Perkins Loan repayment obligation canceled. Borrowers also may be eligible to have their payments deferred or postponed for specific periods of time.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

Stafford Student Loan: This federal loan program enables students to borrow from either a bank, a credit union, a savings and loan association, or other participating lenders to help fund their post-secondary education. This program has a subsidized loan (no interest while in school) and an unsubsidized loan (student charged interest from time of disbursement). For new borrowers who seek loans for periods of enrollment beginning on or after July 1, 1988, the interest rate is 8% and increases to 10% beginning with the fifth year of repayment. For students who currently have 7% or 9% GSLs, the interest rate on additional loans will continue to be 7% or 9%. For new borrowers beginning after October 1, 1992, the interest rate is variable.

Depending on the student's need, graduate students may borrow up to $8,500 a year, effective for enrollment that begins after 10/01/93. The aggregate amount that graduates may borrow is $65,000, including any Stafford loans received at the undergraduate level.

Loan repayments begin six to nine months (depending on the interest rate of the loan) after the student graduates, leaves school, or drops below half-time status for the subsidized loan. Loan payments begin after the first disbursement, or may be deferred and interest will be added to the principal for the unsubsidized loan.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

PLUS Loans and Supplemental Loans for Students (SLS): PLUS loans are for parent borrowers; SLS's are for students. Both loans provide additional funds for educational expenses and, like Stafford Student Loans, are made by a lender such as a bank, credit union, savings & loan association, or other participating lenders. SLS and PLUS loans disbursed on or after July 1, 1988 will have a variable interest rate, adjusted each year.

The interest rate for the 93-94 award year will be determined in June 1993.

PLUS enables parents to borrow up to the cost of attending minus other aid, with no limit, for each child who is enrolled at least half-time and is a dependent student.

Under the SLS program, graduate students may borrow up to $10,000 per year, to a total of $73,000. This amount is in addition to the GSL.

PLUS and SLS borrowers do not have to show need, although like all borrowers, they may have to undergo a credit analysis. To receive consideration for an SLS, borrowers must apply for financial aid to establish their eligibility for a Stafford Loan.

SLS and PLUS borrowers must begin repaying interest within 60 days after the loan is disbursed, unless the lender agrees to let the interest accumulate until the deferment ends.

Emergency Loan: This institutional loan program assists students who demonstrate an urgent need for immediate funds. Applicants must be enrolled as full-time students in the semester for which the request is being made. The amount loaned can be up to $500 and must be repaid within 90 days. This loan may also be used by financial aid recipients as an advance on their financial aid awards for the purpose of purchasing books.
Applications are available at the Financial Aid Office, and loans are approved within 24 hours. Release of funds will occur within five working days of the request.

**Short-Term Tuition Loan**: This is an institutional loan program available to students who are unable to meet the deadline for fee payment.

To be eligible, an applicant must have earned at least 9 credits at the university, be admitted to a degree program, be enrolled on a full-time basis, and have no outstanding debts with the University. Financial aid recipients are not eligible to receive this loan since their tuition/fees payment can be deferred until their financial aid is disbursed.

Applicants who meet all criteria will be awarded the loan. The amount of award is limited to the student's actual cost of tuition and other required fees or a maximum of $1200. The loan is due 60 days from the first day of classes each semester. (Late registration fees or other penalty charges are excluded from loan.)

**Student Employment**

The University offers employment opportunities through various sources. In addition to the FWSP Program, which is based on financial need, other jobs are available on and off-campus and assistance in locating work is provided to any student through the Job Location Development Program.

**Federal College Work Study (FWSP)**: This is a federal financial aid program often included in the student's financial aid award. It provides employment opportunities to eligible graduate students. Students awarded FWSP funds may work on-campus, and an effort is made to assign them to jobs related to their field of study or special interests and skills.

(Refer to Eligibility Criteria section to determine eligibility requirements.)

**Job Location Development Program (JLD)**: The Career Planning and Placement Office operates a Job Location Development Program to help currently enrolled students in locating off-campus part-time employment.

Students seeking work may contact the JLD coordinator in that office for information and assistance.

**Other Personnel Services (OPS)**: On-campus employment opportunities are also available through the University Personnel Relations Department (Employment Office) or through the various University departments.

Caution: Financial aid recipients should be aware that all earnings from non-financial aid employment will be considered as a resource for the following academic year.

**Eligibility Criteria**

To be eligible for Federal assistance, students must:

1. Be enrolled in an eligible graduate program of study.
2. Be a U.S. citizen; U.S. national; or U.S. permanent residents or reside in the United States for other than a temporary purpose (supportive documentation may be required to verify residency or citizenship status).
3. Maintain satisfactory academic progress in their course of study (Refer to Satisfactory Academic Progress section).
4. Not be in default of any loan or owe a repayment on a Pell Grant, SEOG, or state grant.
5. Demonstrate financial need.

**Other Forms of University Assistance**

A number of scholarships are made available by the University, private organizations, or individuals for students with academic promise and financial need. Selection of recipients, award amount, and eligibility criteria are determined by the University, the donor(s), or both.

Application information and deadlines can be obtained through the Financial Aid Office.

**University-Wide Programs**

To be considered for a variety of University scholarships, students are required to complete the Free Application for Federal Student Aid (FAFSA) (see Application Procedures for Financial Aid).

**Graduate Assistant Matriculation Fee Waivers**: These waivers may be awarded to Graduate Assistants who are to be employed for a minimum of 10 hours per week and who are enrolled full-time for at least one semester during the academic year.

**Tuition Waivers**: Tuition waivers may be awarded to Non-Florida residents and foreign students to help defray a part or all of the out-of-state portion of their tuition. Awards are made to students who demonstrate high scholastic achievement, or to students who have special skills or talents.

**Graduate Scholarships and Fellowships**: Graduate scholarships and assistantships are provided to applicants who demonstrate qualifications required for admission to graduate programs. This financial aid may be available in accordance with various criteria such as outstanding academic potential and prior achievement, demonstra-
tion of financial need, and minority recruitment.

Doctoral fellowships, research assistantships, and teaching assistantships are awarded competitively for doctoral programs in Adult Education, Biology, Business Administration, Community College Teaching, Computer Science, Curriculum and Instruction, Economics, Education, Educational Leadership, Exceptional Student Education, Psychology, and Public Administration. Graduate assistantships may be available for other doctoral programs as new programs are established.

Master's degree scholarships, research assistantships, and teaching assistantships are available in numerous programs. Students may also gain part-time employment to support study and living costs. Student financial support is also provided by external agencies. For example, the Florida Endowment Fund provides graduate fellowships for students who are Black American citizens.

For more information, contact the individual academic department.

Fellowship Program for Black Graduate and Professional Students: Available to black graduate students recommended by their academic departments. Awards are made for Spring or Summer semesters. Contact the Division of Graduate Studies at 348-2455.

Special Scholarships

Charles E. Perry Graduate Scholarships: Available to full time graduate students with a 3.5 GPA or higher and financial need.

Mickey Dane Memorial Scholarship: Available to graduates majoring in Industrial Engineering or Business. Must have a minimum 2.5 GPA, preference given to an airline employee or the son or daughter of an airline employee (an active, retired or furloughed status).

Felix Memorial Scholarship: Available to graduate Music majors with financial need. Contact the Music Department at 348-2896.

Frank R. MacNeil Memorial Scholarship: Available to U.S. graduate students majoring in Insurance or Marketing with financial need and a 3.0 or higher GPA.

Isadore Hecht Scholarship: Available to graduates of Dade or Broward high schools who have completed 10 graduate semester hours towards a degree at the University. The students must be enrolled in the Colleges of Arts and Sciences or Business Administration, or the Schools of Education or Public Affairs and Services. Must be full-time students.

Judith Seymour Memorial Scholarship: Available to students enrolled in the College of Arts and Sciences who have completed 30 semester hours at the University and are interested in historic preservation.

Mayor Henry Milander Public Service Scholarship: Available to graduate students majoring in Public Administration or Criminal Justice. Must be a graduate of Hialeah, Miami Springs or Miami Lakes high schools to qualify. Must be full-time students, maintain a minimum 3.0 GPA, and have civic leadership qualities.

Ricardo Nunez Scholarship Fund: Available to full-time graduate students with good academic progress and financial need and a minimum 3.0 GPA.

Dr. Pablo Ruiz-Orozco Scholarship: Available to full-time students seeking graduate degrees in Hispanic Studies who are natives of Ciego de Avila, Cuba, or their descendants. If no students meet this criteria, a student of Cuban origin may be selected. Must have a minimum 3.0 GPA and demonstrate financial need.

Student Government Association Academic Excellence Scholarship: Available to full-time students with financial need and a minimum 3.5 GPA.

Student Government Association Handicapped Student Scholarship: Available to full-time students with a physical disability, financial need, and a minimum 2.0 GPA. Other scholarship opportunities are available through individual academic departments. Information about additional externally funded scholarships is available in the Financial Aid Office.

Application Procedures For Financial Aid

Listed below are all the documents required to apply for financial assistance, as well as procedures for submission of application. The deadline date to receive priority consideration for available funds is March 15 of the year preceding the academic year of enrollment.

Need Analysis Document: Students interested in all forms of aid must complete the Free Application for Federal Student Aid (FAFSA) and mail it to Federal Student Aid Programs (FSAP). They will perform a need analysis based on the information provided on the FAFSA and send the results to the University.

Financial Aid Application (FAA): This form must be completed by all students and mailed to the Financial Aid Office at their primary campus.

Financial Aid Transcript (FAT): All students who have attended another institution of higher education must submit a Financial Aid Transcript for each institution attended, whether or not aid was received.

Income Tax Return: Students selected for verification by the U.S. Dept. of Education must submit an official (signed) copy of the previous year's Income Tax Return (1040, 1040A, or 1040EZ) to the Financial Aid Office. An official (signed) copy of their parents' tax return will also be required for dependent students. The applicant's name and social security number should be written at the top of the Parent's Income Tax Form to insure proper student identification. (Students and/or parents who did/will not file must submit an Income Certification Statement for IRS Non-Filers available in the Financial Aid Office.)

PLUS Applicants: A separate application is required in addition to the other documents. The Financial Aid Office will mail PLUS loan applications directly to the student.

Additional information may be requested by the Financial Aid Office before issuing an award package. Note: The University will not begin processing financial aid applications until all eligibility criteria are met and application forms are properly completed. It is the student's responsibility to comply with all requirements. All forms and additional information may be obtained from the Financial Aid Office on either campus.

Notification of Award

Once a need assessment has been completed, a notice of award will be mailed to the applicant.

It is the student's responsibility to review the award and all its conditions prior to accepting the aid offer. The student must then return the signed copy of the award along with all other required documents within 4 weeks of issuance or make an appointment with a financial aid officer to discuss any concerns he/she may have. If the student fails to sign the award offer, the award will be canceled and those funds
will be offered to other eligible applicants.

Disbursement of Aid
All financial aid recipients must go to the Cashier's Office to have their class schedule validated prior to the date shown on the Fee Due Notice received during registration. Failure to validate the class schedule will result in the cancellation of all classes for the semester.

Financial aid checks will generally be mailed to your local address one month after classes begin each semester.

Tuition, fees, housing fees, and other outstanding debts will be deducted before releasing any funds to the student.

Satisfactory Academic Progress
In keeping with guidelines set by the U.S. Department of Education, the Financial Aid Office must determine if a student is maintaining satisfactory progress for the receipt of Title IV and/or institutional financial aid (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loans, Stafford Student Loan/PLUS Loan, SLS Loan, Institutional Grant and State Student Incentive Grant programs). This rule applies regardless of the student's previous financial aid history.

The student must show incremental progress in his or her coursework along the continuum of attendance toward degree completion, as well as remain in good academic standing to be eligible for aid.

Students who fail to meet the satisfactory progress criteria will be placed on probation, or have all aid suspended. If a student disagrees with the Financial Aid Office's decision, he or she will have the right to appeal. (The complete Satisfactory Progress Policy statement is available in the Financial Aid Office and one copy is provided to each financial aid applicant along with the notification of their financial aid eligibility.)

Financial Aid Refunds/Repayments
When a student receiving financial aid withdraws or drops below the required hours for receipt of that aid, the amount of refund due (according to the University Refund Policy) is refunded back into the financial aid programs from which the student received money. In addition, a portion of the financial aid received as cash disbursement for non-instructional costs must be repaid by the student to the University.

The complete Refund/Repayment Policy Statement and distribution formulas are available in the Financial Aid Office.

Students' Rights and Responsibilities
As a recipient of financial aid, there are certain rights and responsibilities of which students should be aware. By knowing them, students will be in a better position to make decisions which could influence their educational goals and objectives.

Students have the right to know:
1. What financial aid programs are available at Florida International University.
2. The process and procedures that must be followed in order to be considered for financial aid.
3. The criteria used in selection of recipients, and the method used for calculating need.
4. The various programs on the financial aid award and how the need was determined.
5. The refund and repayment policy at the University.
6. How the Financial Aid Office makes its determination on such questions as student progress, the appeal process, and other decisions.
7. The terms, including repayment, of any loan allocated by the University.
8. What special facilities and services are available to the handicapped.

Students are responsible for:
1. The timely and proper completion of all necessary forms by the established deadlines, and the accuracy of any information provided to the University in the financial aid application.
2. Promptly providing any additional information requested by the Financial Aid Office.
3. Keeping the Financial Aid Office informed of any changes in address, name, marital status, financial situation, or any change in their student status.
4. Reading and understanding all financial aid forms sent to them and/or signed by them and keeping copies of the forms.
5. Notifying the Financial Aid Office of any scholarship, grant, or other resources made available to them from non-University sources while they are receiving financial aid.
6. Notifying the Financial Aid Office if they withdraw from the University or change their enrollment status. Some repayment may be expected on a prorated basis. Future aid may be suspended if arrangements for payment are not made with the Financial Aid Office.
7. Maintaining satisfactory progress in order to be considered for financial aid.
8. Visiting the Cashier's Office for an exit interview if they have received a Federal Perkins Loan or attend an exit interview in PC 125 if they received a Stafford Loan and do not plan to return to school the following semester.
9. Re-applying for aid each year.
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 1993-94 are as follows:

<table>
<thead>
<tr>
<th>Fee Type</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>
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<tr>
<td>Graduate, Thesis</td>
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<td></td>
</tr>
<tr>
<td>or Dissertation</td>
<td>$107.81</td>
<td>$360.83</td>
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</tbody>
</table>

Student Fees

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Amount (Florida)</th>
<th>Amount (Non-Florida)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic</td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Health</td>
<td>$30.00</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

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 for 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. The State employee fee waiver will not be accepted as payment for course registrations prior to the announced date for state employee registration.

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

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

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

Fee Payment

Fees may be paid at the Cashier's Office at University Park, PC 120, or at North Miami ACI 140. Broward students may pay at the Broward Community College Cashier's Office, by mail or at the Cashier's Office at University Park or North 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 cancelled. See Fee Liability below.

Late Registration Fee

Students who register or pay after the established deadline for registration will be subject to a $100 late registration fee.

Late Payment Fee

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

Florida Prepaid Tuition Plan Students

All students planning to register under the Florida Prepaid Tuition Plan must present their FPTP identification card to the University Controller's Office, PC 510 on the University Park Campus or at the Cashier's Office ACI 140, on the North 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 cancelled 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 cancelled for fiscal reasons must be filed in writing on the prescribed form with the Cashier's Office by the time specified on the cancellation notice. Each request will be evaluated by the Reinstatement Appeals Committee. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. The decision of the committee is final and all reinstatement activity, including fee payment, must be completed prior to the University Public Safety Department of the four-week period 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 $25 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
Per book per library hour .25
Maximum fine per book $5.00
Lost book fine $35.00

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

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

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

(For detailed information on the University’s academic centers and institutes, refer to the 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 Beestling, Assistant Dean

The Office of Undergraduate Studies is responsible for undergraduate program activities that span more than one academic unit. Included in these activities are the Academic Advising Center, offering advising for freshmen, undecided majors, students changing majors, and non-degree seeking students, and monitoring of Core Curriculum and General Education requirements; the University Learning Center, providing CLAST counseling and academic preparation, national test
administration, and assistance in improving academic skills; the Faculty Scholars and Invitational Scholars awards and the University Honors Program; and ROTC. The office is located in DM 366, University Park, 348-2099; and ACI-180, North Miami Campus, 940-6754.

Office of Graduate Studies

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

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

The Graduate Dean is assisted by a Coordinator of Graduate Studies, who has responsibility for all requests for candidacy certification, assists with minority student recruitment and admission, and also assists the Dean of Graduate Studies with the divisional matters.

The Office of Graduate Studies is responsible for: the direction and support of all University graduate programs; the development of and compliance with University graduate policy, procedures, and planning; graduate financial aid, acquisition and distribution; University clientele linkages for development support and productivity; graduate program external advisory councils; graduate program review and accreditation; budgetary support and facilities for graduate programs; and planning, development, budgetary support and external resources.

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

The Graduate Dean works with the Graduate Council in the formulation of new graduate policies and procedures. The Graduate Council is a subcommittee of the Faculty Senate and consists of members who also represent their respective colleges/schools on the Council. The Graduate Council reviews curricula changes proposed by academic units and endorsed by the University’s Curriculum Committee. Another committee in the Office of Graduate Studies is the Advisory Committee for Graduate Studies. This Committee makes recommendations to the Graduate Dean on the implementation of graduate policies and procedures on all programs that offer graduate degrees. The Dean of Graduate Studies serves as Chair of this Committee. Generally, the members on this Committee are assistant and associate deans who have responsibility for graduate education in their respective academic units.

Human Research Committee. Dr. K. Galen Kroeck, Professor of Management; Chairs the University Research Council which, among other things, is in charge of making decisions and giving approval to the use of human subjects on projects and research conducted by University professors and students. In addition, the Committee makes recommendations for fostering University wide research productivity.

Graduate students seeking information on general graduate policies and procedures, or instructions on preparing and filing the thesis or dissertation, should contact the Office of Graduate Studies in PC 520, University Park, or call 348-2455 for an appointment.

Libraries

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

The total library collection comprises a million volumes, in addition to substantial holdings of federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to 7,025 scholarly journals and other serials.

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

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

In keeping with the University’s commitment to day and night operation, the libraries are open when the University is in session and during vacation periods. For exact library hours, please consult the posted schedules. 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 consult with members of the Library staff.

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

Instructional Media Services

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* 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; LB-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 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).

These services are available to students, as well as faculty and staff.)

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

Continuing Education
Carolinn W. Baldyga, Dean
Doris K. Sadoff, Assistant Dean
J. Patrick Wagner, Director,
Off-Campus and Weekend Credit Courses
Karl L. Rodabaugh, Director,
Conferences and Short Courses

The University extends credit and noncredit 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, career training, certificate and degree programs and courses for academic credit. 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, 348-2490.

Administered through the Office of Academic Affairs, the Division of Continuing Education carries out its mission of extending lifelong learning opportunities through the Department of Off-Campus and Weekend Credit Courses and Professional Development and Public Service.

Off-Campus and Weekend Credit Courses
Over 230 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. 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. Students may also register at the first class meeting.

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 Off-Campus and Weekend Credit courses opportunities available through the Department, call 940-5653 in Dade, and 463-2790 in Broward.

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

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

Noncredit 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), 463-2790 (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 basis (MasterCard and Visa are accepted).

Certificate Programs
Legal Certificate Programs
Included are the Legal Assistant (Paralegal), Legal Certification Review, Legal Secretarial Studies, and Law Office Administration. The objective of all programs is to develop 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 skill required in the transportation 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.

Sponsored Research and Training
Thomas A. Breslin, Vice Provost and Director
Catherine F. Thurman, Associate Director

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

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

The 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' Metropolitian Museum and Art Center Collection, The Cintas Foundation of Contemporary Hispanic Art and a permanent collection of works by North and South American Florida artists.

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

The Art Museum has been recognized for its excellence by the grants it has received, most recently the National Endowment for the Arts; The Institute for Museum Services; The National Endowment for Humanities; The Florida Endowment for the Humanities; The Dade County Council of Arts and Sciences; The Metropolitan-Dade County Cultural Affairs Council and the Florida Arts Council.

The Art Museum, which occupies a 5,000 square foot area on the University Park campus, opened with an internationally acclaimed exhibition, Contemporary Latin American Drawings, in April, 1977. Since then, many important exhibitions have been presented, including: Alberto Giacometti, Draftsman and Sculptor; Mira, Mira, Mira: Los Cubanos de Miami; Adolph Gottlieb: Paintings and Works on Paper; Marcel Duchamp; Louise Bourgeois; The Phillips Collection in the Making: 1920-1930; Imagenes Liricas: New Spanish Visions; CUBA-USA: The First Generation; Antoni Tapies in Print; Agustin Fernandez: A Retrospective; and the annual American Art Today series featuring contemporary artists exploring traditional themes including Still Life, The Figure in the Landscape, The Portrait, Narrative Painting, The City, Surface Tension; and Clothing as Metaphor.

The Art Museum has continued to enhance its exhibitions with the Critics' Lecture Series, which has included many of the exhibiting artists, scholars, museum curators and art historians, including: Susan Sontag, Robert Hughes, Hilton Kramer, Michael Graves, Peter Plagens, Tom Wolfe, Germaine Greer, Dore Ashton, Carlos Fuentes, Michael Benson, 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.

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, Minority Student Services, Orientation, Precollegiate Programs, Public Safety, Student Counseling, Student Government, Student Health Services, Student Judicial Affairs, University Centers, and University Housing.

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, Ca-
Graduate 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 majors, 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.

C&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; 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 226, University Park, 348-3532; SC 260, North Miami Campus, 940-5813; Bldg. 9, Room 224, Broward Program, 348-2679; 6793; TTY/IDD 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 seven 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 and Order of Omega, an honorary and leadership society promotes scholarship among Greeks. A formal rush period is held in the Fall semester, and an informal rush is held during the Spring semester.

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. The University has competed at the Division I-AA level since September of 1977, 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, 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 14 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 provides a variety of intramural sports and recreation activities designed to educate, improve physical fitness, develop an appreciation for the value of physical exercise, and extend leisure time skills. The department manages an open recreation and physical fitness facilities, and coordinates intramural leagues, club sports and special events.

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

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

Athletic and Recreational Facilities

The Golden Panther Arena is a multipurpose facility which serves as the base for University programs in physical education, athletics, and recreation. The Arena has a seating capacity of 5,000. It contains eight 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 Fields 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 $40 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. The Racquet Sports Center at North Campus has six lighted tennis courts, a sand volleyball court, and two full-sized basketball courts.

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 Services

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

An active International Student Club collaborates with the department in organizing various social activities. Club programs enable students to participate in the international dimension of the University and provide opportunities for involvement in the greater Miami educational community.

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

Minority Student Services

Minority Student Services provides minority students with personal, academic, social, and cultural support needed for the achievement of educational goals. Staff provides orientation, leadership development, counseling, career and academic advisement, financial assistance, and 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; SC 260, 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 at least one session is offered before Spring and Summer Terms. 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.

Precollegiate Programs

Precollegiate 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 cashiers 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, 348-2626 (Information), 348-2911 (Emergency); SO I, 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.

This unit also serves as a resource for commuter students. The Commuter Student Program collaborates with academic, administrative, and student affairs units to provide resources, services, and inter-agency and community referrals.

Student Activities is also responsible for new student Orientation, student ambassadors, student handbook, 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 per-
sonal counseling for problems associated with anxiety, depression, interpersonal relationships, coping skills and feelings of inadequacy.

Counseling Services also offers a structured, supervised training program for graduate level students who seek exposure to a diversified population within a multi-disciplinary setting. All services are provided to students free of charge. Complete confidentiality is assured.

Location: GC 211A, University Park, 348-2434; SC 260, North Miami Campus, 940-5813.

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 counsel 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 363, North Miami Campus, 940-5680; Modular 12.1, Broward Program, 355-5680.

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; immunizations; medical screening; laboratory testing; and private consultations with a physician or nurse practitioner. Referrals are made to local hospitals, pharmacies, and physicians for services not provided. Appointments are required. In case of an emergency on campus, Public Safety may be 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 all cost for services rendered at off-campus medical facilities. Therefore, the University strongly recommends the purchase of student health insurance. Brochures describing low group-rate insurance coverage exclusively for the Student Health Center on both campuses.

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

Location: Student Health & Wellness Center, University Park 348-2401; HM 110, North Miami Campus, 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 extra-curricular 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 provides 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 hub of student life, the buildings house the Student Government offices, the "Beacon" student newspaper, the bookstore, cafeteria, grill, Ticketmaster, vending machines, automatic banking facilities, lounges, meeting rooms, and a game room. The UC also houses a post office and theatre, and GC houses a radio station, auditoriums, computer lab, ballroom, and an overnight lodging facility.

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).

Other services include lost and found, locker rental, vending refunds, test preparation courses, and student identification card distribution.

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 windows 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.

Business and Finance
The Division of Business and Finance comprises the offices of Personnel, Equal Opportunity Programs, Facilities Management, Physical Plant, Controller, Purchasing, Environmental & Safety, Legal Affairs, and Staff Development and Training.

Auxiliary Services
Auxiliary Services supervises the bookstore and food service operations at both the University Park and the North Miami Campuses, including the Cafeteria, Rathskeller 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, 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 addresseed 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 Accounting, Contracts and Grants, Disbursement, Student Loan Receivable, Payroll and the Cashier’s Office.

Environmental Health and Safety
The Environmental Health and Safety Department are responsible for compliance with all federal, state, and local environmental, safety, fire, and radiation control regulations. With the exception of employee health and life insurance, the office also handles all university insurance. This department coordinates with the other university department to control all losses.

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 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; and promotes effective relationships between the University and community organizations. The Office also administers the State University System Scholarship Program. 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 FC 215.

Florida Educational Equity Act
The Florida Educational Equity Act was passed by the State Legislature in 1984, and prohibits discrimination on the basis of race, sex, national origin, marital status, or handicap against a student or employee in the State System of Public Education. Procedures for implementing the Act have been developed, and the University prepares an annual report to ensure compliance with the Act. The Director of the Office of Equal Opportunity Programs is the University’s Coordinator of Institutional Compliance with the Educational Equity Act. A copy of the Education Equity Act Plan is available for review in the Office of Equal Opportunity Programs. This office has the responsibility for implementing a comprehensive grievance/complaint procedure for students, applicants, and staff who
believe they have been treated inequitably based on race, sex, national origin, marital status, or handicap. Such grievances/complaints should be lodged with this Office in PC 215, University Park.

**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 will meet 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, Director, 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, age, handicap, sex (including sexual harassment), religion, marital status, or national 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 their belonging to 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**

The Physical Planning department is responsible for the direction of University long-range capital programming, facilities, and campus planning. These activities include capital budgeting, building programs, design coordination, construction management, and furnishing and occupancy coordination. The department is also responsible for space assignment and management, as staff to the University Space Committee, coordinating all standards and requirements related to facilities and site planning of 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, Employee Training and Development, Employee Classification and Pay, Employee Benefits, Employee/Personnel Records, and Employee/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**

The basic function of the Internal Management Auditing department is to assist all levels of management in carrying out their responsibilities by furnishing them with independent appraisals, recommendations and pertinent comments concerning the activities reviewed.

**Legal Affairs**

Legal services are provided to the university under a contract with the law firm of Valdeau-Faule, Cobb, Petrey, and Bischoff. 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, maintenance, and repair of all university buildings, utilities systems, grounds, roads, and parking lots. The university's well known energy conservation strategy and work effort was conceived, reviewed, modified, and executed within the Physical Plant department.

**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 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. These programs are tailored to meet the specific needs of the department requesting the training.

Scheduled for implementation in 1993 are career development programs for targeted employee groups. These programs are designed to enhance professional growth and provide promotional opportunities for participants.

North Miami, Budget, and Support Services

Admissions

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

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

Enrollment Support Services

Enrollment Support Services, a division of the Office of Registrar, manages the Division's computerized student records database, the University's degree audit (SASS), 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 135, University Park, 348-2933.

Financial Aid

Financial Aid is provided to students who otherwise would be unable to pursue their educational goals at the University. Financial Aid includes scholarships, grants, loans and campus employment. Financial need is determined on an individual basis using 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; ACl-160, North Miami Campus, 348-2431.

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 DEC VAX 8800 superminicomputer running VMS, a SUN SPARCServer 690MP and SPARCServer 390 running Unix, and numerous IBM-compatible and Apple microcomputers. Services of most interest to students include: introductory seminars and workshops on the most widely used equipment and software; comprehensive documentation libraries, public 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 singular Application Systems and User Services Groups, provides support for the administrative functions of the University, including Admissions, Registration, and Financial Aid and Cashiers.

Lab Use: Students are required to have a valid FIU picture ID card to use UCS computer and micro labs. Occasionally, during the peak periods before mid-term 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 and GC 111E. For a recorded message with current University Park student lab hours, call 348-2174. Please direct other inquiries to the staff offices in PC 413A, 348-2568. The North Miami Campus combined micro and terminal lab is located in ACI 293. Call 940-5589 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 Unix/SUN/Encore and VMS/DEC VAX 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 pminit 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 IBM, Zenith, and Apple personal computers. Please call 348-2117 for information.

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

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

Since they can notify the proper authorities in case of on-campus emergencies, FIU Operators 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.

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, and Records Archiving.

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.

Location: PC 330, University Park, 348-2383; ACI 160 North Miami Campus, 940-5750; Broward Program, 475-4150.

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.
University Relations and Development

The Division of University Relations and Development is responsible for the operation of all University programs relating to external relations and institutional advancement. Division 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 46,000 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 on news media.

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, FLU NOW, the biweekly faculty/staff newsletter, and the FLU 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.

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 lesser 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 233, University Park, 348-2581.

Center for the Administration of Justice

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

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

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

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

Center for 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 other off-campus programs.

Management Development

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

Research

The Center for Banking and Financial Institutions supports theoretical and applied research on problems and issues in the financial service sector. The Center also publishes an academic journal, The Review of Research in Banking and Finance.

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.

Center for Economic Research and Education

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

Established in 1982 as one of eight centers located throughout the State University System, the Center is located in DM 314, University Park. Its phone number is 348-3283.

Children's Creative Learning Center

The Children's Creative Learning Center at F.I.U. is an Educational Research Center for Child Development.

The C.C.L.C. is designed to meet the needs of children between the ages of 2 yr. 6 mo. (toilet trained) through 5 years.

A creative atmosphere exists to enhance and promote involvement in activities such as: circle time, stories, art, music, action songs, fingerplays, puppetry, movement, unstructured play, outdoor play, water play, pre-reading, pre-math, and developmental tasks, along with the introduction of educational concepts to convey awareness of the world around us.

Since our inception, in 1975, we have been providing developmentally appropriate hands-on experiences for children of students, faculty, staff, alumni and the neighboring community.

We have branches at both University Park and the North Miami Campus.

Half day and full day sessions are available Monday through Friday year round except for holidays and semester breaks. For more information call 348-2143.

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

As a Type I Center of the Florida State University System, the CLR&S has major responsibility at the University for research on labor relations and the changing nature of work in Florida as well as curriculum development and community service. This responsibility can be met, in part, by following the University's
mandate as described in its mission statement: (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 known nationally for its innovative, statewide, 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 in MO-2, University Park, 348-2371.

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**Center for Management Development**

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

**Contract Training**

Management training and executive development programs are provided in the community and on campus. Programs are created to meet the 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 program. 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.

**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.

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**Drinking Water Research Center**

The Drinking Water Research Center (DWRC), the only facility of its kind in the State of Florida, is primarily devoted to conducting scientific research and developing essential technologies which can be used to provide quality drinking water.

Among the Center's areas of investigation are:
- 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.
- The Everglades—examining nutrient loading and ecosystem response; studying ground water movement with changes in drainage canal levels; examining the question of microbiologically mediated chemical processes; all to help bring understanding about how changes in conditions in the Everglades will affect the water quality in the Biscayne Aquifer, the source of South Florida's water.

Although the Center receives support from the state, its research is primarily funded through research grants or contracts awarded to individual research projects. Funding has been received from the U.S. Environmental Protection Agency, the National Science Foundation, the U.S. Department of Energy, NASA, the South Florida Water Management District, The Everglades National Park, the Dade County Department of Environmental Resources Management, local water utilities and private companies.

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 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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**Elder's Institute**

The Elder's 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
FAU-FIU Joint Center for Environmental and Urban Problems

Recognizing that many of Florida’s environmental and urban problems are interrelated by the need for effective growth management, the Florida Legislature in 1972 established the Joint Center for Environmental and Urban Problems at Florida Atlantic University and Florida International University. 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 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, supported by grants and contracts with public and private agencies, that address environmental and urban problems; (2) in-house research on environmental and urban problems; (3) applied research grants awarded to faculty at the two universities; (4) publication of the Joint Center’s quarterly journal, Environmental and Urban Issues, and growth management monograph series; (5) production, in conjunction with FIU’s Media Services, of television documentaries and public service messages concerning selected urban and environmental issues; and (6) workshops, assemblies, conferences and lectures.

The Joint Center maintains offices on FAU’s Broward campus at University Tower in Fort Lauderdale, at FIU’s North Miami Campus, and at the FAU Boca Raton campus.

An associate director, research associate, and secretary staff the FIU office, with support from student research assistants. University faculty members and visiting research associates frequently supplement the staff.

Research

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 energy conservation, affordable housing, transportation and land use, and redevelopment 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, Miami-Dade Community College, and the Palm Beach County Planning Department.

Service

In cooperation with local, regional and state agencies, and with private organizations, the Joint Center has organized and staffed conferences on issues of agricultural land retention, protection of drinking water supplies, and growth management. In conjunction with FIU’s Media Services, television documentaries concerning coastal management issues, agricultural land retention and the lives of two nationally prominent environmental leaders in Florida have been produced and distributed for public education purposes. The FIU office of the Joint Center is located in Academic I Room 370, North Miami Campus, 940-5844.

The FIU Institute of Government

The Institute of Government, as a part of the School of Public Affairs and Services, provides 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. The program draws the University together with the community in which it resides, and couples ideas and skills from many disciplines with working governments.

Upon request, the Institute develops and delivers specialized training for governmental units to address any needs they have identified. The training is developed in consultation with the clients and can be delivered at their site or the University. The Institute provides a workshop series for career development for governmental staff.
Technical assistance and applied research service is also provided for a wide variety of units and divisions within state and local government.

The Institute and the Department of Public Administration conducts the Executive Development College for mid-career public and voluntary sector management. Mid-career managers with experience in the public sector or voluntary sector are eligible for a certificate program in leadership and management. The program emphasizes problem solving and decision making in government and the voluntary sector, personal growth, career development and state of the art management tools.

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 the international stature and reputation to the University and South Florida.
8. To develop a learning environment in the area of building sciences relevant to the needs of low- and medium-income people of the world.
9. To collaborate with other research institutes, government agencies, and universities to increase the effect of its research program.
10. To organize scientific meetings, symposia conferences, seminars, and workshops at the University and elsewhere.
11. To incorporate the use of alternative energy, energy conservation, and efficient use of natural resources in the planning of large projects, and to encourage the utilization of Indigenous materials and labor sources.
12. To help implement programs to alleviate the impact of various disasters on housing including the coordination of disaster preparedness activities related to housing.

An underlying concern of the Institute is to establish an 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.

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 CYF 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 case work decisions regarding children and families, resulting in improved service outcomes for these clients.

Institute of Judaic Studies

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

The objective of the Institute is to infuse Jewish content into the curriculum of the University at all appropriate levels. The Institute fosters scholarship and inquiry into Jewish themes leading to the development of course offerings within existing academic departments. For more information, call 348-3225.

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 a variety of programs through which FIU students provide community service. One such program is the Student Literacy Corps, in Dade County Public Schools' reading and writing skills to illiterate citizens. Other programs address environmental issues, citizen participation in government, and inter-generational projects.

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

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

The Institute is located in VH 211, University Park, 348-2977.

### 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. LACC offers undergraduate and graduate certificate programs to both degree and non-degree seeking students, sponsors and promotes faculty research in the region, and offers public education programs on Latin America and the Caribbean to enhance inter-American understanding.

Since it was founded in 1979, LACC has become one of the country's leading programs in Latin American and Caribbean studies. Over 100 language and area studies faculty regularly offer courses on diverse topics related to the region. Special seminars on the Latin American debt and business environment as well as other socio-political and historical issues complement LACC's efforts. Externally funded research programs have supported a continual flow of visiting Latin American scholars to the University and gifts from the local community have helped the University to build a strong Latin American and Caribbean studies library collection.

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

### 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, provided 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 undergraduate level involving public opinion research and survey research methodology.

4. IPOR continues to seek external funding in support of its longstanding 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 942-5991.
Center for Multilingual and Multicultural Studies

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

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

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

Cuban Exile History and Archives Project

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

Small Business Development Center

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

The Small Business Development Center is a basic services center. It disseminates business management information, performs financial analyses and management audits, assists in market and feasibility studies, and provides business management counseling and training.

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 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 addi-
tional 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 383, North Miami Campus, 940-5550.

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**Women’s Studies Center**

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

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

The program is directed toward specialists and generalists alike: it offers a plan of study for students in the various majors who wish to earn a certificate in women’s studies, and it welcomes students who wish to enroll in its courses without fulfilling the requirements for the certificate.

The center fosters faculty research in Women’s Studies through various means including a publica-

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**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 of institution and discipline field or specialization.

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

**General Rule for Course Equivalencies**

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

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

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

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identical by the same prefix and last three digits of both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 101. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 1010 at the state university if the student transfers. The student cannot be required to take SYG 1010 again since SYG 1010 is equivalent to SYG 1010. 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 institutions 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 complete at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

Exceptions to the General Rule for Equivalency

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

1. Courses in the _900-999 series (e.g., ART 2905)
2. Internships, practical, clinical experiences, and study abroad courses
3. Performance or studio, courses in Art, Dance, Theater, and Music
4. Skills courses in Criminal Justice
5. Graduate courses

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

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to 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.
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Director, University Annual Support  Sandra A. Blue
Director, University Events  Lane Coleman

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Director, FIU Institute of Government  Milan J. Dluhy
Graduate Catalog

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, Hispanic studies, history, international studies, linguistics, mathematical sciences, physics, and psychology.

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

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 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 notice. Please refer to the General Information section for the University’s policies, requirements, and regulations.

Biological Sciences

Jennifer Richards, Associate Professor and Chairperson
Brad Bennett, Assistant Professor
Charles Bigger, Associate Professor
Chun-fan Chen, Associate Professor
Leon A. Cuervo, Professor
George H. Dalrymple, Associate Professor
Michael K. Diamond, Senior Staff Biologist
Kelsey Downum, Associate Professor
Jeff Elhal, Assistant Professor
Walter M. Goldberg, Professor
Jack B. Fisher, Research Scientist
Kenneth Gordon, Associate Professor
Rene J. Herrera, Associate Professor
Ronald D. Jones, Associate Professor
William Klein, Research Scientist
Suzanne Kophur, Associate Professor
David N. Kuhn, Associate Professor
David W. Lee, Professor
John Makemson, Professor
David R. Maurer, Lecturer
Gerald L. Murison, Professor and Chairperson of Graduate Studies
Steven F. Oberbauer, Assistant Professor
Case K. Okubo, Associate Professor
Thomas E. Pliske, Lecturer
L. Scott Quackenbush, Associate Professor
Laurie L. Richardson, Assistant Professor
Roger Sanders, Research Scientist
Phillip Stoddard, Assistant Professor
Martin L. Tracey, Professor
Joel Trexler, Assistant Professor
Terrence Walters, Research Scientist
Ophelia I. Weeks, Associate Professor
Alcila A. Zuniga, Senior Staff Teaching Specialist

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 Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6457</td>
<td>Introduction to Biological Research</td>
</tr>
<tr>
<td>BSC 5931</td>
<td>Graduate Seminar (a one-credit course taken twice)</td>
</tr>
<tr>
<td>BSC 5945</td>
<td>Supervised Teaching in Biology</td>
</tr>
<tr>
<td>BSC 6971</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>Electives</td>
<td>21</td>
</tr>
</tbody>
</table>

Electives

Foreign language competency

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

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

Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count
Graduate Catalog

Required Courses
BSC 5931 Graduate Seminar (a one credit course taken twice) 2
BSC 5945 Supervised Teaching in Biology 2
Workshops and Laboratories1  4
BSC 7980 Ph.D. Dissertation 24
Electives2  55
Foreign Language Competency3

Recommended course
BSC 6457 Intro to Biological Research 3

1 Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate courses (minimum of three separate courses).
2 No more than 36 credits may be transferred from another graduate program, subject to the approval of the Graduate Committee.
3 Competency will be determined by examination consisting of a clear translation of technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements
A grade of ‘C’ or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 36 credits, and a thesis must be completed and accepted after presentation to an ad hoc Thesis Committee chosen by the student’s 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 3.2 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) and have results of the biology advanced section;
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. Arrange to have three letters of recommendation sent to the Departmental Director of the Graduate Program evaluating the applicant’s potential for graduate work;
6. Receive approval from the Departmental Graduate Committee.
7. Acceptance by a faculty sponsor.

Degree Requirements
The Ph.D in Biology is conferred in recognition of a 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 other graduate programs with the approval of the Advisory Committee.

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 3023 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 Radiotrace Use and Safety (1). Workshop in the safe use of radiotracers in biological and biochemical experimentation, labelling of biochemical compounds, purification of labelled compounds, and instrumentation involved in the detection of radiotracers. 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 5405 Physiology (3).
BOT 5405L Physiology Lab (1). The physiology and ecology of marine and freshwater algae, including morphology, reproduction, and classification of major groups.

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 3023.

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 relationship of climate and soils to the distribution and function of the major plant groups of the tropical regions. Prerequisites: Two courses in botany or permission of 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 5682C Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: BSC 1010, BSC 3043 or permission of instructor.

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

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

BOT 6585C Plant Structure and Function (4). A quantitative assessment of plant architecture, morphology and anatomy in relationship to physiology, including the measurement of water relations, energy and gas exchange. Prerequisites: Permission of instructor and graduate status.

BOT 6920 Workshop In Field Techniques In Natural History Of Insect/Plant Interactions (1). A workshop in the techniques for collecting and preserving plants and insects for biological and taxonomic research.

BOT 6921 Workshop In Field Techniques In Pollination Biology (1). Techniques to do a thorough study of the pollination biology of any flowering plant; basic methods and simple instruments for field observations, measurements and manipulations. Prerequisite: Graduate status.

BOT 6922 Workshop: Video Image Analysis In Biology (1). Workshop in the use of video image analysis in biological research. Prerequisites: Graduate status and permission of instructor.

BOT 6923 Workshop: Techniques In Plant Reproductive Biology (1). Workshop in techniques for research on pollination and fertilization in plants. Histological and microscopic examination emphasized. Prerequisites: Graduate status and permission of instructor.

BOT 6935 Advanced Topics In Botany (3). An intensive study of particular plant topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

BSC 5215 Introduction To The Mechanics Of Biological Systems (3). Mechanical principles are used to analyze the structure and function of plants and animals; especially the states 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 cellular biology. Prerequisites: Permission of instructor and graduate status.

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

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

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

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

BSC 6415C Animal Cells In Culture (3)
BSC 6415L Animal Cells In Culture Lab (2). Biology of animal cells cultured in semi-synthetic media: cell nutrition growth, cell cycle analysis, cellular transformation and differentiation, heterokaryons and somatic cell genetics. Prerequisite: Consent of instructor.

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

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

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

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

BSC 6971 Master's Thesis (1-12).
Completion of 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 of 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 of such activity and biology of marine bacteria; diseases of marine animals; bacterial role in oceanic mineral cycling. Prerequisites: MCB 3023 & L and BCH 3023 & L or MCB 4404 and MCB 4404L.

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

OCB 5634 Marine Ecology (3)

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

PCB 5195 Histochemistry/Microtechnique (3)
PCB 5195L Histochemistry/Microtechnique Lab (1). Chemistry and use 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 plants and animals. 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, stream, and desert). 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 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides, genes and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisite: Genetics and Biochemistry.

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

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

PCB 5677 Evolution and Development (3). The models and evidence for the interaction of development and evolution, using both plant and animal systems. Prerequisite: Permission of instructor.

PCB 5686C Population Biology (4). Intrinsic properties of natural and theoretical populations and their dynamics and interactions, and responses to disturbances. Includes field problems and computer exercises. Prerequisite: A course in genetics, evolution, or permission of instructor.

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 3023 or PCB 3203.

PCB 5786 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transduction. Prerequisites: PHY 3048, PHY 3049, BCH 3023 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. Prerequisite: PCB 4703 or PCB 3703 and PCB 3263 or BCH 3023.

PCB 6175C Biological Electron Microscopy (5). Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of instructor.
PCB 6235 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of instructor.

PCB 6237 Immunogenetics (3). The impact of classical and molecular genetic analyses on our understanding of the immune response. Prerequisite: A course in Immunology and Genetics.

PCB 6255 Gene Expression in Animal Development (3). Introduction to the molecular biology of animal development; DNA structure, chromatin, transcription, post-transcriptional gene regulation, molecular control mechanisms in development. Prerequisite: Permission of instructor.

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

PCB 6405 Biochemical Ecology (3). Principles of chemical communication between diverse organisms and the importance of a variety of allelochemicals in community structure. Prerequisite: Permission of instructor.

PCB 6526 Advanced Molecular Biology (3). Molecular genetics, controlling mechanisms, recombinant DNA, gene splicing and gene vector construction of viral, bacterial, plant and animal systems. Prerequisite: Permission of instructor.

PCB 6566 Chromosome Structure and Function (3). Structural organization and function of the prokaryotic and eukaryotic chromosome: euchromatin/heterochromatin, replication, repair, DNA sequence organization and changes during differentiation and development. Prerequisite: Permission of instructor.

PCB 6766 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 3053, and PHY 3054 or equivalent.

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 cin-
Chemistry

Leonard S. Keller, Professor and Chairperson
William Cooper, Associate Professor
Milagros Delgado, Assistant Professor
Kenneth G. Furlon, Assistant Professor
Arthur W. Hiestand, Professor and Dean
Gary G. Hoffman, Assistant Professor
Rudolph Jaffe, Associate Professor
Jeffrey A. Joens, Associate Professor
John T. Landrum, Associate Professor
Ramon Lopez de la Vega, Associate Professor and Graduate Coordinator
Howard E. Moore, Professor
Kevin E. O'Shea, Assistant Professor
John H. Parker, Professor
J. Martin Quirk, Professor
Stephen Winkle, Associate Professor

Master of Science in Chemistry

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

I. 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 and 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 - Thesis

II. 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-Special; ISC-Interdisciplinary Natural Sciences; OCC-Oceanography-Chemical.

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

CHM 5156 Advanced Chromatography (3). Intensive examination of the contemporary practice of chromatography including capillary 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 determination of structures of various classes of organic compounds. Prerequisites: CHM 4220 and CHM 4230L.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be: condensation reactions, reaction pathways, 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 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 atmosphere. Prerequisite: CHM 3410, CHM 3411, or permission of instructor.

CHM 5425 Graduate Physical Chemistry (4). Quantum physics, the Schrodinger equation and its solutions, atoms and molecules, rotational, vibrational, and electronic spectroscopy. Prerequisite: Graduate standing or permission of instructor.

CHM 5440 Kinetics and Catalysis (3). Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411, MAP 3302.

CHM 5490 Physical Spectroscopy (3). Introduction to atomic and molecular quantum states, selection rules, and fundamental principles of spectroscopy. Introduction to group
theory and to the theory of UV/visible, infrared, Raman, microwave, nmr, photo-electron, and mass spectrometry, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

CHM 5490L Physical Spectroscopy Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 3211, 3211L. Corequisite: PHY 4604 or CHM 5490.

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamics, 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 fates 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 application. Open and closed systems, irreversible processes, high and low temperature systems, solids, liquids, and gases. Core course. Prerequisite: CHM 3411 or permission of instructor.

CHM 6340 Organic Geochemistry (3). Organic geochemistry of recent and ancient environments. Characteristics, 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 Schrödinger equation and its solutions, approximation methods, spin, symmetry, structure of atoms and molecules. Prerequisite: CHM 3411 or permission of instructor.

CHM 6511 Polymer Chemistry (3). A quantitative study of polymers. Mechanism of formation, configuration of polymer chains, and the relationship between physical properties and chemical constitution. Prerequisite: CHM 3411 or permission of instructor.

CHM 6905 Independent Study in Chemistry (1-6). Independent study and problems in an area of chemistry, under faculty supervision. May be repeated. Prerequisite. Permission of instructor.

CHM 6910L Graduate Research in Chemistry (VAR). The student works directly with a professor on a research project. Credit is assigned on the basis of four hr/wk per credit hour. Results to be presented as a seminar. Permission of instructor.

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

CHM 6940 Supervised Teaching (1-3). Graduate student serves as lecturer and demonstrator in undergraduate laboratories coordinated and supervised by a faculty member. May be repeated. A maximum of three hours may apply to the Master's degree. Prerequisite: Full graduate standing.

CHM 6949 Industrial Internship (3). A semester of supervised work in an outside laboratory. Prerequisite: Permission of instructor.

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

CHM 6971 Master's Thesis (1-6). Completion of thesis. Prerequisite: Permission of major professor.

CHS 5531 Forensic Analysis (3). An introduction to established chemical analysis techniques used in forensic science and new techniques under development. Prerequisite: CHM 3120, CHM 3120L, CHM 3211, CHM 3211L or permission of instructor.

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

Michael Evangelist, Professor and Chairperson
Farah Areli, Assistant Professor
Toby S. Berk, Professor
David Barton, Professor
John C. Comfort, Professor
Luis L. Cova, Assistant Professor
Yi Deng, Assistant Professor
Timothy Downey, Instructor
Raimund Ege, Associate Professor
Dawn J. Holmes, Assistant Professor
William T. Kraynek, Associate Professor
Wesley F. Mackey, Lecturer
Masoud Milani, Associate Professor
Jainendra K. Navlakha, Professor
Cyril D. Orji, Assistant Professor
Ana Pasztor, Professor
Alexander Piring, Associate Professor
Norman Pastina, Instructor
N. Prabhakaran, Associate Professor
Naphalii Rishe, Professor
Orlando Saldana, 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. A score of at least 650 quantitative and 500 verbal taken within the last three years; the score on the analytic portion of the GRE exam will be considered.

3. Three letters of recommendation from persons in a position to judge the applicant's potential success in graduate study.

4. 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>CEN 5011</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COP 6611</td>
<td>Advanced Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COT 5420</td>
<td>Theory of Computation I</td>
<td>3</td>
</tr>
<tr>
<td>COT 6400</td>
<td>Analysis of Algorithms</td>
<td>3</td>
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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 5686: 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
- COP 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

Non-Thesis Option

Additional Coursework

The student is required to take at least 30 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 minimum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

Doctor of Philosophy in Computer Science

The requirements for admission to the doctoral program in Computer Science are:

1. A baccalaureate or master's degree in Computer Sciences, or equivalent degree in a related field as judged by the School's Graduate Committee.

2. A minimum of a 'B' average on all upper division work and acceptable courses in Calculus and Statistics.

3. GRE scores of at least 650 on the quantitative portion and 500 on the verbal portion. The GRE must have been taken within the last 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CDA 5312</td>
<td>Micro Processing for Software Designers</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6501</td>
<td>Distributed Processing</td>
<td>3</td>
</tr>
<tr>
<td>CEN 5011</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COP 6545</td>
<td>Advanced Topics in Database Management</td>
<td>3</td>
</tr>
<tr>
<td>COP 6611</td>
<td>Advanced Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COT 5420</td>
<td>Theory of Computation I</td>
<td>3</td>
</tr>
</tbody>
</table>
COT 6400 Analysis of Algorithms 3
COT 6421 Theory of Computation II 3
MAD 5405 Numerical Methods 3
STA 6807 Queueing 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:

Dr. David Barton
Graduate Program Director
School of Computer Science
Florida International University
University Park
Miami, Florida 33199

Course Description

Definition of Prefixes

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. Prerequisite: COP 3530.

CEN 5686 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 topics in software design. 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. Prerequisite: permission of instructor. Cop 3530.

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. Prerequisites: Permission of Instructor.

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

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

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

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

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

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

COP 6545 Advanced Topics in Database Management (3). Architecture and implementation aspects of DBMS; Distributed databases; Semantic models; advanced database languages, including Prolog-like languages; Semantic aspects of databases; Database machines. Prerequisite: COP 4540.

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

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

COT 5936 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.
Creative Writing

Asher Z. Milbauer, Associate Professor and Chairperson
Lester Standford, Professor and Director, Creative Writing
Lynne Barrett, Associate Professor
John Dutresne, Assistant Professor
James W. Hall, 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 Competition, 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, Luis A. Valenzuela, Tony Hillerman, and Henry Taylor. Such major writers as James Jones and George Garrett have served on the regular faculty.

Admission Requirements

Applicants must have a baccalaureate degree, a 3.0 GPA or a 1000 combined score on the GRE, and a minimum of nine semester hours of undergraduate work in creative writing. However, admission is based primarily on the strength of the applicant’s submitted writing sample.

Degree Requirements

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

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

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

Fellowships, teaching assistantships, and tuition remission scholarships are available on a competitive basis.

Course Descriptions

Definition of Prefixes
CRW-Creative Writing; ENG-English.

CRW 5130 Advanced Fiction Workshop (5). Practice in the techniques and analysis of fiction through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW coursework.

CRW 5331 Advanced Poetry Workshop (5). Practice in the techniques and analysis of poetry through the reading, discussion and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW coursework.

CRW 5620 Advanced Screenwriting Workshop (5). Practice in the techniques and analysis of screenwriting through the reading, discussion, and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW coursework.

CRW 5934 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated.

CRW 5935 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of 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. Prerequisites: 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 aesthetic. 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
Iima de Alonso, Associate Professor and Graduate Program Coordinator
María Dolores Espino, Assistant Professor
Timothy Goodspeed, Assistant Professor
Antonio Jorge, Professor of Political Economy
Ali Cem Karayalcin, Assistant Professor
Bruce Kelley, Assistant Professor
Panagis Liosisofatos, Professor
J. Kenneth Liner, Assistant Professor
Jorge Salazar-Cartilo, Professor and Director, Center for Economic Research and Education
Carlos Sevilla, Assistant Professor
Mira Wilkins, Professor
Marla 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 studies, or a combined score (verbal, quantitative, and analytic) of 1,500 or higher on the three-part GRE, which every candidate must take. (If a student has taken the Graduate Record Examination before the new system was introduced and scored 1000 or higher on the combined verbal and quantitative sections, the student does not have to retake the examination.) Foreign students whose native language is not English must take the TOEFL and obtain a score of 500 or higher.

2. Receive approval of the departmental graduate committee.

3. Have taken as prerequisites intermediate microeconomics, intermediate macroeconomics, statistics, and calculus. A student who has not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, the student must take these courses as required, obtaining no credit for them in the program.

Degree Requirements

The Master's degree program will consist of 30 semester hours of course work, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are:

Core Semester Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 7115</td>
<td>Microeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7206</td>
<td>Macroeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 7424</td>
<td>Econometric Methods I</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements: (12-15)

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)

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 school of the University. The graduate committee must approve courses taken outside the department.

Graduation Requirements

To receive the Master’s degree in Economics, the student must complete 30 hours of course work with a 'B' (3.0) average or higher; must receive at least a 'B' (3.0) in the core courses; and must receive a grade of 'C' or higher in each course. If the student decides to write a thesis, he must receive the grade of 'P' (pass) for ECO 6971.

Doctor of Philosophy in Economics

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

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

2. A minimum GPA of 3.0 from the last two years of the undergraduate education or a minimum score of 1650 on the three-part GRE (which every candidate must take). Foreign students whose native language is not English must take the TOEFL and obtain a score of 550 or higher.

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

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

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

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

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the 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

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

Fields of Specialization

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

First Year of Graduate Study

Students are required to take courses, which must at least include the first six courses in the core as listed above. At the end of the year, students are required to pass a comprehensive qualifying examination on core theory - the first four of the core courses listed above. A student who fails twice will not be allowed to remain in the program.

Second Year of Graduate Study

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

Dissertation Work

Upon completion of the dissertation requirements, students will be required to choose a specific area of doctoral research. During this phase, which will normally have a total length of two years, the student will:

a. Conduct research and complete a dissertation.
b. Continue taking courses.c. 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. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program.

ECO 5735 Multinational Corporations (3).


ECO 5906 Advanced Individual Study (3).

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. Prerequisite: 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. Prerequisite: ECO 3101 or equivalent, Calculus I; Calculus II recommended.


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; neo-classical capital theory and Cambridge controversies; neo/Marian, neo/Keynesian and other ap-
approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.

ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisites: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, 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 distribution lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 7424 and MAS 3103 or equivalent.

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.) (1-6). 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. Consideration of public services, transportation, housing, 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 on the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

ECP 7606 Urban and Regional Economics (3). The economics of urbanization processes, internal organization of cities, and regional settlement. Spatial growth models and spatial development planning. Prerequisites: ECO 7115, ECO 5205, ECO 4013 or equivalent; and ECO 6636.

ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory. Spatial price theory and spatial competition. Prerequisites: ECO 3101 or equivalent; Calculus I; Calculus II and ECO 7115 recommended.

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 achievement 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 ECO 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

Asher Z. Milbauer, Associate Professor and Chairperson
Harry T. Antin, Professor
St. George Tucker Arnold, Associate Professor
Lynne Barrett, Associate Professor
Lynn M. Berk, Professor
Gisela Casines, Associate Professor
Maneck Daruwala, Associate Professor
Theresa DiPasquale, Assistant Professor
John Dufresne, Assistant Professor
Charles Elkins, Professor
Mary Jane Elkins, Associate Professor
Peggy Endel, Associate Professor
Mary Free, Associate Professor
Virginia Mueller, Associate Professor
James Hall, Professor
Tometro Hopkins, Assistant Professor
Peter Hargatal, Instructor
Barbara Kline, Assistant Professor
Jeffrey Knapp, Instructor
Kenneth Johnson, Associate Professor
Kathleen McCormack, Associate Professor
Camelia Pinto McIntire, Associate Professor
Adelle S. Newsom, Associate Professor
Sheila Post-Lauria, Assistant Professor
Robert Ratner, Instructor
Merl-Jane Rochelson, Associate Professor
Richard Schwartz, Associate Professor
Ronn Silverstein, Instructor
Ellen Sprechman, Lecturer
Lester Standford, Professor
Richard Sugg, Professor
Donald Watson, Professor
Butler H. Waugh, Professor
Robert Weinberger, Instructor
Barbara Weitz, Instructor
C. Kemp Williams, Assistant 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 offered by the English Department.

Course Descriptions

Definition of Prefixes

AML - American Literature; CRW - Creative Writing, ENG - English - Gen-
eral; ENL-English Literature; LIN-Linguistics; LIT-Literature.

AML 5305 Major American Literary Figures (3). Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Maier, Wright, Baldwin. May be repeated.

AML 5505 Periods in American Literature (3). The literature and criticism regarding one specified period of American Literature, such as Colonial, Federal, Transcendental, Antebellum, and Twentieth Century, may be repeated with change of period. Prerequisite: Permission of instructor.

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.

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

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

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing, including development and articulation of the creative esthetic. May be repeated. Prerequisite: Permission of instructor.

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

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

ENG 6935 Special Topics in College Pedagogy (3). The pedagogy of teaching a designated area of college and university English, such as Shakespeare, American literature, film studies, creative writing, or linguistics. Course content and organization to be determined by the individual professor. Course does not meet certification requirements.

ENG 6937 Teaching College Composition (3). A seminar-workshop introducing the pedagogy of academic and professional writing courses at the university and college level, to include traditional rhetoric, writing as process, the modes of discourse, and post-structuralist theory. Course does not meet certification requirements. Prerequisite: Graduate standing. Corequisite: College composition practicum.

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

ENL 5220 Major British Literary Figures (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 5505 Periods in English Literature (3). The literature and criticism regarding one specified period of English Literature, such as Medieval, Renaissance, Victorian, Twentieth Century, and Contemporary. May be repeated with change of period. Prerequisite: Permission of instructor.

LIN 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 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. Prerequisite: LIN 5501.

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 6574 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, and LIN 5018.

LIT 5365 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 Professor
David Generaux, Assistant Professor
Rosemary Hickey-Vargas, Associate Professor
Martha Gamper-Longoria, Research Associate Professor
Michael Gross, Assistant Professor
Jose Longoria, Professor
Andrew Macartan, Assistant Professor
Florentin Maurrasse, Professor
Claudio Owen, Lecturer
Edward Robinson, Research Associate Professor
Gautam Sen, Associate Professor
Neptum Shrimali, Visiting 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 minimum 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 geochemistry/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/GLY 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

Petroleum - 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-Mariana arc-basin system and India.

Palaeontology

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 or animal extinction, paleoecology of specific groups, evolution, and computer programs in palaeontology. 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 South Florida and the circum Caribbean region. Tectonic evolution and paleoecology of sedimentary basins of these regions and their relationships to global and regional tec-
tomic 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 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 reconstructions, geophysical volcanology. Coursework will cover topics in geophysical principles, field methods and data analysis.

Regional and Applied Geology
Tailored to student’s professional needs including options in Environmental Geology, Hydrogeology and General Geology. Such options are multidisciplinary in nature and will involve courses from other science departments and engineering.

Graduation Requirements
1. A minimum GPA of 3.0 in all course work required for the master’s degree.
2. Satisfactory performance on qualifying examinations on general geologic skills and field of 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 lecture 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 Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, soil, earth and atmosphere. 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 Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisite: Graduate standing or permission of instructor. Corequisite: GLY 5286.

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 4555L. 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 4555 and GLY 4555L. Corequisite: GLY 5346.

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems in rock deformation. Prerequisites: GLY 4400, 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 three-dimensional 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 biostratigraphic type-sections described in the Caribbean area. Deep-sea stratigraphy from both piston-cores and Deep-Sea Drilling Project samples. Emphasis is placed on planktonic foraminifera and radiolarians used as index-species in the equatorial-Tropical biozonation typified in Cretaceous and Cenozoic Caribbean sediments. Paleoecologic and paleooecologic 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, argil-}

laceous 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 origins 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 Hydrogeology (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 Circum Caribbean Region (4). Detailed lithostratigraphic and biostratigraphic analyses of Caribbean islands. Central America, northern South America and Caribbean basin. Prerequisite: GLY 5621 or permission of instructor.  
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 isotope 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). Detailed exploration of selected research topics in structural geology and tectonics. Prerequisites: GLY 5446 or permission of instructor.  
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 paleomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostriatigraphy, 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 paleomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostriatigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3200 or permission of instructor. Corequisite: GLY 6468L.  
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 seismol-
ogy. 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 survey of relevant 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 DSDF/PDP sites. Prerequisites: GLY 5621 or permission of instructor.

GLY 6627 Stratigraphic Micropaleontology: Radiolarians (3). Nomenclature, taxonomy, and biostratigraphy of Cretaceous and Cenozoic radiolarians. Studies of stratigraphically important taxa using Caribbean land sections, piston cores, and DSDF/PDP 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 using land and DSDF/PDP 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 (0). Oral presentation and discussion by students of an 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). Application of geophysical and geological data to the interpretation of the earth’s crust under the oceans, including the data provided by the Deep-Sea Drilling Project, dredging, piston coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisite: GLY 4730 or permission of instructor.

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

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

History

Mark D. Szuchman, Professor and Chairperson
Daniel A. Cohen, Assistant Professor
N. David Cook, Professor
Alan Kahan, Assistant Professor
Howard Kaminsky, Professor Emeritus
Eric J. Leed, Associate Professor
Alex Lichtenstein, Assistant Professor
Felice Lifshitz, Assistant Professor
Joseph F. Patrouch, Assistant Professor
Brian Peterson, Associate Professor
Joyce S. Peterson, Associate Professor
Gerald Poya, Assistant Professor
Darden Asbury Pyron, Professor
Erika Rappaport, Assistant Professor
Howard B. Rock, Professor
Warren T. Treadgold, Professor
Victor M. Ulive, 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-
1. Applicants to the M.A. degree program in History must have an undergraduate average of 3.0 (on a 4.0 scale) and score 1000 or better in the Graduate Record Examination. The GRE must be taken within three years prior to the application.

2. Two letters of recommendation. Applicants should ensure that each letter on their behalf is signed by the author along the sealed flap of the envelope. Letters should be mailed directly to the Graduate Advisor, Department of History.

3. Applicants must have completed 12 semester-hours of credit (on the basis of 3-hour courses) in the undergraduate courses in History.

Any applicant with fewer than twelve (12) semester-hours of undergraduate courses in History may be accepted provisionally and take a maximum of nine (9) semester-hour credits by registering for courses under the category of Special Student (consult the University Catalog and the Office of Admissions). After completing nine semester-hours of undergraduate course work in History with no grade lower than a 'B' (3.0), the student may apply for regular admission. The application will be reviewed by the Department's Graduate Advisor, in consultation with the Department's faculty. The GRE and GPA scores are only minimum requirements. All applications are reviewed by the Graduate Studies Committee which makes the final admissions decision.

**Degree Requirements**

**Thesis Option**

1. A minimum of 30 semester-hours for the degree, including a maximum of six semester-hours of Thesis Research. All coursework must be taken at FIU.

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

3. Two Research Seminars (6 semester-hours).

4. Reading competence in a foreign language. Language competency is assessed by the faculty of the Department of History, as appropriate. Courses required to meet the language competency requirement do not count toward the degree. The Latin American concentration requires proficiency in Spanish or Portuguese; the European concentration in Spanish, French or German, the United States concentration in any of the above.

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

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

7. The following limits are placed in accumulating credits toward the M.A. degree:
   a. No more than three semester-hours of HIS 5908 (Independent Study) are permitted.
   b. Students must receive the grade of 'B' (3.0) or better in order for any course to count toward the degree.
   c. A maximum of six semester-hours of HIS 5930 (Special Topics).
   d. Students are prohibited from taking more than one Research Seminar per semester.
   e. Students are prohibited from taking graduate-level cross-listed courses that they have already taken at the undergraduate level.

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

9. Breadth Areas. Students will take six semester-hours in breadth areas. These may be courses taken within the Department of History that are outside the culture area of concentration, or in associated disciplines outside of the Department (with the approval of the Graduate Advisor), or a combination of the two.

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

11. The thesis must be successfully defended and formally approved by a Supervisory Committee composed of three members of the Department of History. The Supervisory Committee is convened and headed by the thesis supervisor. In cases of cross-disciplinary research, an external reader from a different department may form part of the Supervisory Committee, substituting for one member from the Department of History.

12. The degree candidate will prepare the thesis in accordance to the regulations stipulated in the University's Graduate Policies Manual. The degree will be conferred after the approval of the final version of the thesis by the Office of the Dean of the College of Arts and Sciences.

**Report Option**

1. A total of 30 semester-hours of course work are needed for the M.A. degree. The report option does not set requirements of the Core/Breadth area distribution. Students will design their distribution needs in consultation with the Graduate Advisor and the relevant faculty. All courses must be taken in the Department of History, at FIU.

2. A minimum of two Research Seminars (6 semester-hours) must be taken. If approved by the faculty, the papers written for the seminars will be presented to the Graduate Advisor for approval.

3. The following limits are placed in accumulating credits toward 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
- EUH 5905 Readings in European History
- EUH 5915 Research in European History
- EUH 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. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedules.) 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. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedules.) 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 schedules.) 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.

LAH 5915 Research in Latin American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in Latin American History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.
International Relations

Ralph S. Clem, Professor and Chairperson
Ken I. Boodhoo, Associate Professor
Thomas A. Breslin, Associate Professor
John F. Clark, Assistant Professor
Peter R. Craumer, Assistant Professor
Damian J. Fernandez, Associate Professor
Dean L. Hansen, Assistant Professor
Farokh Jhabvala, Professor
Antonio Jorge, Professor
Charles G. MacDonald, Professor
Mohladin Mesbah, Assistant Professor
Susan E. Waltz, Associate Professor
Gregory B. Wolfe, Professor

The Department of International Relations 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
GEA-Geography-Regional (Area); GEO-Geography-Systemic; INR-International Relations; PUP-Public Policy.

GEO 5415 Topics in Social Geography (PG, IP) (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEO 3000 or permission of instructor.

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 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 5026.

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

International Studies

Damian Fernandez, Director, International Studies
Participating Departments:
Raul Moncarz, Chairperson, Economics
Mark Szuchman, Chairperson, History
 Ralph Clem, Chairperson, International Relations
Joe Gottlieb, Chairperson, Political Science
Guillemo 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
Graduate Catalog

INR 5607  International Relations and Development  3
POS 5706  Research Methodology  3
SYP 5447  Sociology of International Development  3

Electives  15

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

Thesis (6)
The thesis requirement 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, synthesizing the available information from more than one discipline, and focusing that knowledge to illuminate a problem, policy, or theory in International Studies.

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

## Linguistics

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Position</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kemp Williams</td>
<td>Assistant Professor and Director, English</td>
<td></td>
</tr>
<tr>
<td>Lynn M. Berk</td>
<td>Professor, English</td>
<td></td>
</tr>
<tr>
<td>Isabel Castellanos</td>
<td>Associate Professor, Modern Languages</td>
<td></td>
</tr>
<tr>
<td>Virginia Mueller</td>
<td>Associate Professor, English</td>
<td></td>
</tr>
<tr>
<td>Tometro Hopkins</td>
<td>Assistant Professor, English</td>
<td></td>
</tr>
<tr>
<td>John B. Jensen</td>
<td>Associate Professor, Modern Languages</td>
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<tr>
<td>Peter A. Macchiosi</td>
<td>Associate Professor, Modern Languages</td>
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<tr>
<td>Mehmet Yavas</td>
<td>Associate Professor, English</td>
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</tr>
</tbody>
</table>

### 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, distributed as follows:

**Required Courses (All Students):** (15)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5018</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5501</td>
<td>English Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5206</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6323</td>
<td>General Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6510</td>
<td>Generative Syntax I</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6805</td>
<td>Semantics</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Linguistics Track**

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

The remaining hours must be chosen from any graduate course offerings with a LIN prefix, in consultation with an advisor.

**Applied Linguistic Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5501</td>
<td>English Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5748</td>
<td>Survey of Applied Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

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
- Accoustic Phonetics
- History of a Language
- Teaching Composition
- Special Methods of TESOL
- Special Topics (when designated)
- Seminar (when designated)

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

### Foreign Language Requirement

Students with no background in foreign languages will be required to take LIN 6572 “Structure of a Non-Indo-European Language”, as a part of their 36-hour program.

### Examination Requirement

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

### 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 reasoning and categorization as revealed by language. Examines the role of metaphor, imagination, and bodily experience in human thought processes. Prerequisites: LIN 3013, or LIN 3010, or the equivalent, or permission of instructor.

LIN 5018 Introduction to Linguistics (3): Introduction to Linguistic theory and analysis, with special emphasis on the major components of lan-
guages 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 3013 or permission of instructor.

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 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 5431 General Morphology and Syntax (3). The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. The student will study recent developments in linguistics that bear on language-universal and language-specific aspects of morphology and syntax. Prerequisite: Introductory course in Linguistics or permission of instructor.

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 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 native language.

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. Prerequisite: LIN 3013 or LIN 3010.

LIN 5748 Applied Linguistics: Theory and Applications (3). Theoretical and practical approaches to second-language acquisition. Examination of and hands-on experience with early and recent approaches (Contrastive Analysis; Error Analysis; Parameter Setting, etc.)

LIN 6323 General Phonology (3). The study of phonological process 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 Generative Syntax (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 retaken for credit when content changes. Prerequisite: LIN 5501, English Syntax.

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 5013, 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 6805 Semantics (3). The study of linguistic semantic language-universal and language-specific properties of the semantic structure of words in sentences will be consid-
Mathematics

Dev K. Roy, Associate Professor and Chairperson
Gerardo Aladro, Associate Professor
William Calbeck, Assistant Professor
Mark L. Cooper, Assistant Professor
Dominika Fox, Instructor
Susan Gorman, Instructor
Peter Holden, Assistant Professor
Steven M. Hudson, Associate Professor
George Kaikoullis, Assistant Professor
Mark Leckband, Associate Professor
Diana McCoy, Instructor
Abdelhamid Meziani, Assistant Professor
Richard Nadel, Instructor
Anne Pilkington, Assistant Professor
Toja Ramsamujh, Associate Professor
David Ritler, Associate Professor
Michael Rosenthal, Instructor
Richard L. Rubin, Associate Professor
Philippe Rukimbira, Assistant Professor
Anthony C. Shershin, Associate Professor
Minna Shore, Instructor
James F. Sifker, Associate Professor
W. Jay Sweet, Assistant Professor
Enrique Villamarin, 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
- MAS 5215 Number Theory 3
- STA 5446 Probability Theory 3
- STA 6807 Queueing and Statistical Models 3

List B:

- MAD 5405 Numerical Methods 3
- MAP 5407 Methods of Applied Analysis 3
- MAS 5415 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 the committee consisting of three mathematics faculty (including the director).

Remarks: The coursework must be completed with 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. 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: MAA 512.

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. Prerequisites: COP 3530.

MAA 5616 Introduction to Real Analysis (3). Lebesgue measure and integral with applications to integral transforms. Prerequisite: MAA 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: MAA 3105 and MAP 3302.

MAP 5236 Mathematical Techniques of Operations Research (3). This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisite: MAP 5117 and MAA 3106 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 MAA 3105.

MAS 5415 Applied Linear Algebra (3). Concepts of finite dimensional vector spaces. Theorems that have infinite dimensional analogues and those with important applications are emphasized. Prerequisites: MAA 3105 and MAA 3200.

MAS 5215 Number Theory (3). Topics to be discussed are selected from the following: congruences, Diophantine equations, distribution of primes, primitive roots, quadratic reciprocity, and classical theorems of number theory. Prerequisites: MAA 3312 or permission of instructor.

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

STA 5446–STA 5447 Probability Theory I and II (3–3). This course is de-
signed 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 6807 Queuing and Statistical Models (3).** Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of Instructor, MAC 3312 and either STA 3033 or STA 3321.

**Modern Languages**

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Title</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relnaldo Sanchez</td>
<td>Professor and Chairperson</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Imenla Aragon</td>
<td>Instructor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Aurelio Baldor</td>
<td>Instructor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Pascale Becel</td>
<td>Assistant Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Isabel Castellanos</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Rodolfo Cortina</td>
<td>Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>James O. Crosby</td>
<td>Professor Emeritus</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Leonel A. de la Cuesta</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Danielle Johnson-Cousin</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Yvonne Guers-Villate</td>
<td>Professor Emeritus</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>John B. Jensen</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Peter A. Machonis</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Ramon Mendoza</td>
<td>Professor (North Miami Campus)</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Mariano Montero-Demos</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Ana Roca</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Andree Stayman</td>
<td>Instructor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Marcelle Welch</td>
<td>Associate Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Florence Yudin</td>
<td>Professor</td>
<td>Modern Languages</td>
</tr>
<tr>
<td>Malda Watson Espener</td>
<td>Professor</td>
<td>Modern Languages</td>
</tr>
</tbody>
</table>

**Master of Arts in Spanish**

Admission Requirements: To be admitted into the Master’s degree program, a student must:

1. Hold a Bachelor’s degree in Spanish from an accredited university or college. Special cases, such as holders of a degree in a related field, will be evaluated individually by the Department.

2. Take the Graduate Record Examination (GRE) quantitative and verbal sections.

3. Have attained a minimum 3.0 grade-point average (B average), during the last two years of her/his undergraduate program as determined by the FIU Admissions Office, or attain a score of at least 1,000 on the GRE.

4. Demonstrate the ability to speak Spanish with near-native fluency and to write in Spanish. Demonstrate the ability to read English with excellent proficiency. An examination may be necessary. Contact the Director of Graduate Study (305-348-2851; Modern Languages, FIU, Miami, FL, 33199). Students with deficiencies will be required to complete certain course work before beginning graduate study.

5. Submit two letters of recommendation, preferably from persons in the academic community who are in a position to comment on the applicant’s suitability for graduate work.

6. Receive approval of the departmental graduate committee.

**Degree Requirements**

The Master’s degree program consists of 33 semester hours of graduate level work. A maximum of six credits of graduate course work may be transferred into the program from other institutions, subject to the approval of the departmental graduate committee. Six core courses and three elective courses are required at the 5000- and 6000-level. Some courses have prerequisites which do not count toward the degree. All core courses in literature must be taken with or after SPW 5806. Courses taken before SPW 5806 are considered to be electives.

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPW 5806</td>
<td>Methods of Literary Research (must be taken in the first year of study)</td>
<td>3</td>
</tr>
<tr>
<td>SPN 5705</td>
<td>The Structure of Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>One course in peninsular Spanish literature of the Golden Age</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>One course in either Medieval Spanish literature or Peninsular Spanish literature, 19th or 20th centuries</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Two courses in Spanish American Literature</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**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 commit-
Course Descriptions

Definition of Prefixes

FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature; FRE-French Language; FRT-French Translation; FRW-French Literature (Writings); GER-German Language; LIN-Linguistics; POR-Portuguese Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings). (See English listing for additional Linguistics courses.) Application of basic language skills.

Fil 5526 Spanish Film (3). The history of film in Spain and Discussions of films by the most important 20th Century Directors.

Fil 5527 Latin American Film (3). The study of 20th Century films and documentaries produced by leading Latin American directors. Films are examined in relation to Latin American Society and its literary creations.

FOL 5735 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 5906 Independent Study (1-3). Project, field experience, readings, or research.

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. or 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 or LIN 3013.

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 and one additional course in phonetics/phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5501 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010 or 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 or LIN 3013.

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 or LIN 3013.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and
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 or 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 or equivalent.

SPN 5805 Morphological Structures of Spanish and English (3). A survey of the morphologies of Spanish and English. Topics include the differences between isolating and synthetic languages, rich versus impoverished agreement, and syntactic ramiﬁcations of morphology. Prerequisites: LIN 3010 or 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 or 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 or 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 and one other course in Spanish linguistics.

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

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

SPN 6535 Hispanic Culture in the U.S. (3). Readings in literature, culture, and language to illustrate the experience of the major Hispanic groups in the United States. Prerequisites: Graduate standing and permission of the instructor.

SPN 6930 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

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

SPT 5118 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

SPT 5715 Hispanic Women Writers in Translation (3). Readings and analysis of Spanish and Spanish American women writers in translation. Emphasis on cultural and linguistic considerations involved in the translation of literary texts. Prerequisite: Graduate standing or permission of instructor.

SPW 5408 Colonial Latin American Literature (3). The most important and representative literary works of Colonial Latin America from the Chronicles of Lizardi to the Present. 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', 'romantismo', 'naturalismo', 'modernismo', and 'criollismo'.

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

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 5358 Graduate Seminar: Prose and Poetry of Jorge Luis Borges'***(3).** Close readings of short stories and poetry. Emphasis on Borges's linguistic and cultural pluralism and the interplay of philosophy with fabulation.

**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 XI and XIV Centuries, and the literature of Juan II's court. Prerequisite: Graduate standing and permission of instructor.

**SPW 5407 The Renaissance in Spain (3).** Readings in the literature and cultural expressions of the Spanish Renaissance. Prerequisite: Graduate standing and permission of instructor.

**SPW 5425 Quevedo: Poetry (3).** Close reading of selected poems by Spain's greatest baroque poet and creator of modern Spanish satire, including poems on love, death, and metaphysical concerns, and a wide range of humorous poems.

**SPW 5426 Quevedo: Prose Satire (3).** Close reading of selected satires in prose by Spain's greatest baroque satirist and creator of modern Spanish satire. Includes Quevedo's picaresque novel El Buscon, and his Suenos, or Visions of Hell.

**SPW 5428 Theatre in Calderon and Lope (3).** The creation of verbal theatrical technique in the Baroque masters Calderon de la Barca and Lope de Vega.

**SPW 5436 Poetry Writing in Spanish (3).** Readings from Spanish and Latin American texts; description and recreation of traditional and experimental metrics. Students will exchange critiques of original poems. Prerequisites: sample of unpublished poems; word processing literacy; permission of instructor.

**SPW 5475 19th Century Latin American Literature (3).** A study of the main literary works of Spanish speaking 19th Century Latin America: Romanticism, Realism, Naturalism and Modernism. Prerequisites: Upper level and graduate standing.

**SPW 5515 Advanced Studies in Hispanic Folklore (3).** Studies the oral literary and linguistic tradition of the Hispanic world. Prerequisites: Graduate standing and permission of instructor.

**SPW 5556 Spanish Realism and Naturalism (3).** Readings in Spanish XIXth Century Novel of Realism and Naturalism including Alarcon, Perez Galdos, Pardo Bazan, Clarin and Blasco Ibanez. Prerequisites: Graduate standing and permission of instructor.

**SPW 5575 Spanish American Modernism (3).** An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, focusing on Marti, Dario, Najera, Casais, 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 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.
Physics

Kenneth A. Hardy, Professor and Chairperson
Richard A. Bone, Professor
Yasim Darici, Associate Professor
Rudolf Flebig, Associate Professor
Bernard Gerstman, Associate Professor
Jesus Marcano, Assistant Professor
Oren Maxwell, Associate Professor
Stephan L. Minzh, Professor
John W. Sheldon, Professor
Nonglan Too, Assistant Professor
Walter van Hamme, Associate Professor
Xuewen Wang, Assistant Professor
James R. Webb, Assistant Professor

Master of Science in Physics

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

Required Courses:

- 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, PHY-Physics, PZ-Physical Sciences, ENU-Nuclear Engineering

AST 5215 Stellar Astrophysics (3) Topics in Stellar Astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on current stellar structure, evolution models, and the underlying observational data. Prerequisites: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent.

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


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 5115.


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

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

PHY 5936 Special Topics Research (1-10). Participation in an original investigation in theoretical or experimental physics/astro-physics under direct faculty supervision. Prerequisite: Permission of instructor.

PHY 5937, PHY 5938 Seminar in Special Topics (3). Seminar work under the supervision of a faculty member on subject material of mutual interest.

PHY 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: Quanized 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 6668 Relativistic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields, CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6664.

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 6675 Quantum Theory of Many Particle Systems I (3). An introduction to the physics of many particle systems: Second quantization, Fock
PHY 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas. Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 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) X SU(2) X U(1) model, non-perturbative features, lattice regularization and numerical simulation. Prerequisites: PHY 4605, PHY 5346.

PHZ 6426 Advanced Solid State Physics (3). Electronic structures of solids and surfaces, electron-electron interaction, superconductivity, magnetism in solids, amorphous systems, glasses, polymers, percolation, localization, phase transition, fractals. Prerequisites: PHY 4324 and PHY 4605.

PHYS 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.

Political Science
Joel Gottlieb, Associate Professor and Chairperson
Ronald Cox, Assistant Professor
Bruce DeWitt, Associate Professor
Eduardo Gamarra, Associate Professor
Antonio Jorge, Professor
Dafio Moreno, Assistant Professor
Brian Nelson, Associate Professor
Nicol Rae, Associate Professor
Mark Rosenberg, Professor
Cheryl Rubenberg, Associate Professor
Rebecca Salokar, Assistant Professor
John Stack, Professor
Judith H. Stiehm, Professor
Mary Volcansek, Professor
Christopher Warren, Associate Professor

The Department of Political Science 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 Descriptions
Definition of Prefixes
CPO-Comparative Politics; INR-International Relations; POS-Political Science; POT-Political Theory; PUB-Public Policy.

CPO 5036 Politics of Development (3). This course examines divergent explanations for development and underdevelopment. Of central importance are the concepts and theories which emphasize the political dimensions of development, including theory and concept, processes of development, and actors in the development process.

CPO 5091 Seminar in Comparative Politics (3). A foundation in the development of the field of comparative politics and in the major schools of thought that have molded perspectives on comparative political analysis.

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

CPO 6936 Seminar in Comparative Politics (3). Graduate seminar on special topic in comparative politics. Topic to be announced in advance.
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 5934 Topics in International Politics (1-6). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic to be announced in advance.

INR 6007 Seminar in International Politics (3). Graduate seminar on special topic in international politics. Topic to 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 5156 Topics in Politics (VAR). Subject matter varies according to instructor.

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, legitimized, 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.

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 in International Studies.

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 5934 Topics in Political Theory (VAR). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

PUP 5934 Topics in Public Policy (1-6). A rigorous examination of a topic in public policy. Subject matter varies according to instructor. Topic will be announced in advance.
Psychology

Scott Fraser, Associate Professor and Chairperson
Lorraine Bahrk, Associate Professor
Milton Blum, Professor Emeritus
Brian Cutler, Associate Professor
Marvin Dunn, Associate Professor
Joan Erber, Professor
Luis Escovar, Associate Professor
Gordon Finley, Professor
Ronald Fisher, Professor
Arthur Flexer, Associate Professor
Jacob Gewirtz, Professor
Edward Girden, Distinguished Professor Emeritus
Fernando Gonzalez-Reigosa, Associate Professor
David Kravitz, Assistant Professor
Lowell Krocoff, Associate Professor
William Kurtines, Professor
Mary Levitt, Associate Professor
Gary Moran, Professor
Janet Parker, Associate Professor
James Rotton, Associate Professor
Juan Sanchez, Assistant Professor
Bernard Saper, Professor
Wendy Silverman, Professor

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 550 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 is required 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; DDP-Developmental Psychology;
EAB-Experimental Analysis of Behavior; EDP-Educational Psychology; EXP-Experimental Psychology; INP-Industrial and Applied Psychology; LING-Linguistics; PCC-Psychology for Counseling; PPE-Psychology of Personality; PS-Philosophy; PSG-Psychology; SOC-Sociology; SOP-Social Psychology; SPA-Speech Pathology and Audiology.

CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology mani-
Education and permission of instructor.

CLP 6395 Forensic Psychology (3). This course surveys the practical and ethical issues surrounding the interface between clinical psychology and the law. Prerequisite: CLP 4144, CLP 6168 or equivalent of either.

CLP 6436 Introduction of Psychological Assessment (3). This course provides instruction in the principles and methods underlying the administration, construction and evaluation of psychological tests and measures. Prerequisite: Graduate standing.

CLP 6437 Behavioral Assessment in Childhood (3). Standardized tests and inventories for the behavior assessment of infants, children, and adolescents will be surveyed. Prerequisites: Prosamair 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. Presentations 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 of human service programs with emphasis on the application of basic principles of behavioral science research in the field, exclusive of public school settings.

CYP 6536 Principles and Methods of Psychological Consultation (3). An analysis of the basic psychological approaches underlying consultation, with special emphasis on the practical application of the processes of learning, cognition, and interpersonal relations to techniques of consulting with various "target" agencies, individual clients, and other professionals in community settings. Prerequisite: Graduate standing at FIU or permission of instructor.

CYP 6766 The Psychology of 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 Behavioral Development (3). Introduction to the theory and research underlying behavioral development. Covers such perinatal and postnatal determinants as evolution, genetics, neuroendocrine, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate
standing or permission of instructor. Corequisite: Proseminar courses.

DEP 5068 Applied Life Span Developmental Psychology (3). This course is
designed to acquaint the student with various applications in life-span
developmental psychology. An overview of general issues and ar-
eas of application is offered, and specific applications are consid-
ered. Prerequisite: Graduate standing or permission of instructor.

DEP 5099 Proseminar In Intimacy, Childhood, and Adolescence (3).
Provides a comprehensive review of issues in perceptual, cognitive, so-
cial, emotional, and personality development from infancy through
adolescence. Prerequisite: Graduate standing or permission of instruc-
tor. Corequisite: Pro-seminars.

DEP 5118 Current Issues In Cognitive and Perceptual Development In
Intimacy (3). Provides an in-depth analysis of current issues, methods,
research and theory of cognitive and perceptual development dur-
ing the first year of life. Special emphasis on object and event
perception, memory, and imitation. Prerequisites: Two courses in de-
velopmental psychology - any level recommended.

DEP 5185 Emotional Learning and Its Reversal (3). Theoretical analyses
and methodological issues in the study of emotional learning. Prereq-
uites: Graduate standing or permission of instructor.

DEP 5405 Proseminar In Psychology of Adulthood and Aging (3). A com-
prehensive review of topics in adulthood and aging including:
biological changes, social pro-
cesses, work, family, cognition, mem-
ory, 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 develop-
mental psychology, both histori-
cally and contemporaneously.
Meta-theoretical issues, paradigm-
ic influences, and specific theo-
ries are considered. Prerequisite:
Graduate standing or permission of in-
structor.

DEP 5725 Seminar In Psychosocial Development (1). This course is de-
signed to develop research skills and competencies in the area of
psychosocial development. The em-
phasis of the course is on involve-
ment in original research. Prereq-
uites: 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 in-
cluding theory, methods, design,
and data reduction. Prerequisite:
Graduate standing or permission of
instructor. Corequisite: Proseminars.

DEP 6117 Psychology of Childbirth (3). A survey of theory and research
on the effects of caregiving/parenting
behaviors, and conditions on beh-
avior outcomes of offspring, both
for intra and extra humans. Prereq-
uites: Graduate standing or per-
mission of instructor.

DEP 6145 Psychology of Culture and Childhood (3). Extensive cross-cul-
tural readings will serve as the focus
for seminar discussion of cultural in-
fuences on children's biological,
motor, perceptual, cognitive, social,
and personality development. Prereq-
uites: Graduate standing or per-
mission of instructor.

DEP 6186 Social Development and Learning (3). Theories and facts of
socio-emotional development, learning, and the acquisition and
maintenance of social relationships
in early life are examined critically.
Prerequisites: DEP 3000 or DEP 3001
or equivalent.

DEP 6465 Psychology of Culture and Aging (3). An intensive examina-
tion of cultural influences on social and
psychological aging processes in-
cluding minority aging and involving
seminar discussion and inde-
pendent projects. Prerequisite:
Graduate standing.

DEP 6466 Cognitive Processes In Aging (3). An intensive analysis of the
background and recent develop-
ments 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 re-
cent developments in theoretical
models of social development, per-
sonality processes, and social pro-
cesses 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. Prereq-
uites: Graduate standing or per-
mission of instructor.

DEP 6936 Current Literature In the Psychology of Intimacy, Childhood,
and Adolescence (3). This seminar will present and evaluate current re-
search 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. Prereq-
uites: Second year graduate stand-
ing.

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, culmi-
nating in a final written report. Prereq-
uites: Two courses in
Developmental Psychology (any level).

DEP 7069 Seminar In Life-Span Cognitive Developmental (3). This gradu-
ate seminar will examine, through
intensive reading and seminar dis-
cussion, the major theories, issues
and empirical research on cognitive
growth, change and decline from in-
fancy through old age. Prereq-
uites: 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 Experi-
mental Analysis of Behavior (3). An
advanced survey of the principles of
respondent and operant condi-
tioning 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 modi-
fying 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 opportuni-
ties are provided in behavior ther-
apy, relaxation therapy, behavior
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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 4032, 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 6406 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 6508 Applied Cognitive Psychology (3). Covers the basic theories of cognitive psychology perception, attention, memory, learning, knowledge, with emphasis on application to real-world problems. Prerequisite: Graduate Standing.

EXP 7747 Practicum in Causal Modeling (3). Introduction to linear structural relations models, emphasizing logical and practical problems in inferring causation for experimental and correlational research designs.

INP 5095 Proseminar in Industrial Psychology (3). Provides coverage of industrial and personnel psychology topics such as job analysis, personnel recruitment and selection, legal aspects of employment, performance appraisal, and training design and evaluation. Prerequisites: Acceptance to Master's or Ph.D. program in Psychology.

INP 5136 Psychology of Legal Consultation (3). Practice in basic non-clinical areas in which psychologists assist attorneys, including jury selection, surveys, and simulations. Prerequisite: SOP 6098 or equivalent.

INP 6235 Applied Psychology of Training and Development (3). In-depth study of principles of behavior and attitude change in organizations. Topics include organization analysis, program design and implementation, and evaluation of results. Prerequisites: Acceptance to M.S. or Ph.D. program in Psychology and SOP 5616.

INP 6940 Strategies and Methods of Applied Psychological Research (3). A practicum course in the psychological research strategies and the application of computers in the analyses of psychological data.

LIN 5701 Psychology of Language (3). An overview of the psychology of language and the psychological 'reality' of linguistic structure. Behavioral vs. cognitive views of psycholinguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

POC 6206 Principles & Practices of Counseling & Psychotherapy (3). Examination of the principles & practices of counseling and psychotherapy derived chiefly from cognitive behavioral psychology. Prerequisite: Graduate standing.


PSY 5246C Multivariate Analysis in Applied Psychological Research (3). Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotellings T², MANOVA, principle component analysis, and factor analysis. Prerequisite: STA 3123 or equivalent; linear algebra recommended.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of instructor.

PSY 5917 Psychology Research Proseminar (3). Specialized research and presentation to faculty members in his or her major research area. Seminar style. This course is intended as a core course for the masters program in psychology. Prerequisite: Full graduate admission.

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'
Sociology and Anthropology

Guillermo Grenler, Associate Professor and Chairperson
Jerald B. Brown, Associate Professor
Janel Chernen, Associate Professor
Stephen M. Fjellman, Professor
Chris Girard, Assistant Professor
Hugh Gladwin, Associate Professor
James P. Ito-Adler, Assistant Professor
Antonio Jorge, Professor
A. Douglas Kincaid, Associate Professor and Associate Director, LACC
Barry B. Levine, Professor
Kathleen Logan, Associate Professor
Shearon A. Lowery, Associate Professor
Anthony P. Malgol, Professor
James A. Mau, Professor and Provost
Betty Hearn Morrow, Associate Professor
William T. Osborne, Associate Professor
Walter Gillis Peacock, Associate Professor
lsandro Perez, Associate Professor
Alejandro Portes, Patricia and Phillip Frost Endowed Professor
Alex Stepick, Associate Professor and Director, Comparative Sociology Graduate Program
William T. Vickers, Professor
Lois West, Assistant Professor
Kevin Yelvington, Assistant Professor

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

Admission Requirements

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

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

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

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

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

Degree Requirements

The M.A. in Comparative Sociology requires a total of 36 semester hours of credits, including 15 credits in core courses, 15 credits in electives, and a master’s thesis based upon the student’s original research (including 6 credits of enrollment in SYA 6975 Thesis). A maximum of six credits of graduate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses (36):

SYA 6125 Classical Social Theories 3
SYA 6126 Contemporary Social Theories 3

SOP 5416 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.
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 6943 South Florida Area Study (3). Current issues in South Florida. Studied through large-scale survey research conducted by class members. Provides experience in research techniques and the development and testing of theory. Prerequisites: SYD 6625 and SYA 6305.

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.

SYD 5045 Demographic Analysis (3). The study of the processes that determine the size and composition of human populations. Emphasis on demographic transition theory and the antecedents and consequences of differential growth rates throughout the world. Prerequisite: Graduate standing or permission of the instructor.

SYD 6236 International Migration and Refugees (3). Comparative analysis of the causes, consequences, and policies concerning population movements across national borders. Includes review of various theories of labor migration. Students will conduct research on a migration or refugee topic. Prerequisite: Graduate standing or permission of instructor.

SYD 6325 Seminar in the Comparative Sociology of Gender (3). 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.

SYD 6427 Seminar in Comparative Urban Issues (3). Current theoretical developments in the study of urbanism, including the evolution and growth of cities, spatial and social structures, migration, and the critical problems of social life in cities. Prerequisite: Graduate standing or permission of instructor.

SYD 6615 Seminar in Comparative Analysis of Selected Regions (3). Comparative social analysis using studies from two or more world regions. Students read a series of works on issues such as bureaucracy, modernization, and development, and discuss them in a seminar format. Prerequisite: Graduate standing or permission of instructor.

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 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.

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
Gaurl L. Ghal, Associate Professor
Sneh Gulati, Assistant Professor
Ina Parks Howell, Lecturer
Jie Mi, Assistant Professor
Laura Reisert, Instructor
Samuel S. Shapiro, Professor
Hassan Zahedi-Jasbi, Associate Professor
Jyoti N. Zalikkar, Associate Professor

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

Course Description

Definition of Prefixes

STA - Statistics. MAP - Mathematics/Applied.

MAP 5117 Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 3313, COP 2210 or CGS 3420, MAS 3105; and STA 3322 or STA 3164 or STA 3033.

STA 5106 Intermediate Statistics I (3). Power, measures of 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. Prerequisites: 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 foundations of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov chains, transition matrix and ergodic properties, strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 3313.

STA 5505 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5505 will not be granted. Prerequisite: First course in statistics.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 3322.

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

STA 5826 Stochastic Processes (3). This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queueing theory, renewal processes, birth and death processes, Poisson and Normal processes. Applications to system reliability analysis, behavioral science, and natural sciences will be stressed. Prerequisite: STA 5447.

STA 5906 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigation.

STA 6166/STA 6167 Statistical Methods in Research I and II (3-3). For non-mathematical sciences graduate students. A non-calculus exposition of methods and applications of statistical techniques for the analysis of data. Statistical packages will be used. Prerequisite: Graduate standing.

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). Explanatory data analysis; testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 3322, or STA 6327.

STA 6247 Data Analysis II (3). Analysis of variance, regression analysis. Analysis of covariance, quality control, correlation, empirical distributions. Prerequisites: STA 6246 and MAS 3105.

STA 6326 Mathematical Statistics I (3). An introduction to the theories underlying statistical analysis. Basic concepts of probability theory, combinatorial analysis, random variables, and expectation. Prerequisite: MAC 3313.

STA 6327 Mathematical Statistics II (3). Estimation of parameters, tests of hypotheses, regression, non-parametric methods, analysis of variance, and multivariate concepts. Prerequisite: STA 6326.

STA 6807 Queueing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queueing models, statistical models. Prerequisites: Permission of Instructor, MAC 3311 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.

STA 7708 Multivariate Methods II (3). Principal components analysis, Factor analysis, Canonical correlation analysis, Discriminant analysis, Cluster analysis, Multidimensional scaling. Prerequisite: STA 7707.
Visual Arts

Clive King, Professor and Chairperson
Ralph F. Buckley, Associate Professor
William Burke, Associate Professor
James M. Cooper III, Professor
Carol Damian, Assistant Professor
Eduardo Del Valle, Associate Professor
Richard Duncan, Associate Professor
Mirta Gomez, Associate Professor
Ellen Jacobs, Professor
William Maguire, Professor
Juan Martinez, Assistant Professor
Dahlia Morgan, Lecturer/Art
Charles Morgan, 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.

ARH 5907 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a semester before course is offered. May be repeated.

ARH 5913 Research (1-6). Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. Prerequisite: Permission of instructor. May be repeated.

ART 5125C Ceramics (3). The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: ART 3111C, or permission of the instructor. May be repeated.

ART 5159C Jewelry and Metals (3). A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore the more difficult technical aspects of areas such as hollow ware, enameling, casting, and stone setting. May be repeated.

ART 5165C Glassblowing (3). A basic course in off-hand glass blowing, concerned with preparing, forming, and finishing glass; understanding of glass as an art form; operation and maintenance of a glass studio. May be repeated.

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

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

ART 5403C Printmaking (3). With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silk-screen and other experimental techniques. May be repeated.

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

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

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

ART 5907C Directed Study (VAR). A group of students, with the approval of the Visual Arts Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least one semester before course is offered. May be repeated.
College of Arts and Sciences

Dean
Arthur W. Henriott

Associate Dean, Curriculum and Advisement
Fred Bouma

Associate Dean, College Relations
Gisela Casines

Associate Dean, Graduate Studies and Research
Brian Cutter

Associate Dean, North Miami
Joyce Peterson

Director, School of Computer Science
Michael Evangelist

Chairpersons and Program Directors:

- Biological Sciences: Jennifer Richards
- Chemistry: Leonard Keller
- Economics: Raul Moncarz
- English: Asher Milbauer
- 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: Reinaldo Sanchez
- Music: John Augenblick
- Philosophy and Religious Studies: Bruce Hauptli
- Physics: Kenneth Hardy
- Political Science: Joel Gottlieb
- Psychology: Scott Fraser
- Sociology and Anthropology: Guillermo Greilier
- Statistics: Carlos W. Brain
- Theatre and Dance: Therald Todd
- Visual Arts: Clive King

Faculty

- Adeote, Leke, Ph.D. (University of California-Los Angeles), Assistant Professor, Philosophy and Religious Studies
- Aladro, Gerardo, Ph.D. (Pennsylvania State University), Associate Professor, Mathematics
- Antrim, Harry, Ph.D. (University of Florida), Professor, English
- Aragon, Irmenia, M.A. (Temple University), Instructor, Modern Languages
- 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, English
- Arvin-Rad, Hassan, Ph.D. (University of Pennsylvania), Assistant Professor, Economics
- Augenblick, John, D.M.A. (University of Miami), Associate Professor and Chairperson, Music
- Bahrick, Lorraine, Ph.D. (Cornell University), Associate Professor, Psychology
- Baldor, Aurelio, M.A. (Florida International University), Instructor, Modern Languages
- Bailey, Patrice, M.A. (Indiana State), Instructor, Theatre and Dance
- Barnett, Lynn, M.A. (University of North Carolina-Greensboro), Associate Professor, English
- Barton, David, Ph.D. (University of Cambridge), Professor, School of Computer Science
- 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
- Becel, Pascale, Ph.D. (University of California-Davis), Assistant Professor, Modern Languages
- 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
- Braddock, 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 Julliard 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
- Calef, William, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Mathematics
- Carvalhal, Manuel, Ph.D. (University of Florida), Professor, Economics
- Carrington, Jane, B.F.A. (The Julliard 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
- Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences
- Chen, Ling, Ph.D. (American University), Assistant Professor, Statistics
- Cherneva, Janet, Ph.D. (Columbia University), Associate Professor, Sociology/Anthropology
- Chung, Bongkil, Ph.D. (Michigan State University), Associate Professor, Philosophy and Religious Studies
- Church, Phillip, M.F.A. (University of California at Irvine), Associate Professor, Theatre and Dance
- Clark, John, Ph.D. (University of Virginia), Assistant Professor, International Relations
- Clem, Ralph, Ph.D. (Columbia University), Professor, and Chairperson, International Relations
- Clement, Bradford, Ph.D. (Columbia University), Associate Professor, Geology
- Cohen, Daniel, Ph.D. (Brandeis University), Assistant Professor, History
- Comfort, John C., Ph.D. (Case Western Reserve University), Professor, School of Computer Science
- Cook, N. David, Ph.D. (University of Texas), Professor History
- Cooper, William, Ph.D. (University of Miami), Associate Professor, Chemistry and Director, Drinking Water Research Center
- Copper, Mark L, Ph.D. (University of Georgia), Assistant Professor, Mathematics
Correll, Helen, Ph.D. (Duke University), Research Scientist, Biological Sciences
Cortina, Rodolfo, Ph.D. (Case Western Reserve University), Professor, Modern Languages
Couper, James, M.A. (Florida State University), Professor, Visual Arts
Cova, Luis, Ph.D. (Princeton University), Assistant Professor, School of Computer Science
Cox, Ronald W., Ph.D. (University of Wisconsin), Assistant Professor, Political Science
Craemer, Peter, Ph.D. (Columbia University), Assistant Professor, International Relations
Crosby, James, Ph.D. (Yale University), Professor Emeritus, Modern Languages
Cuevos, Leon, Ph.D. (University of Maryland), Professor, Biological Sciences
Cutler, Brian, Ph.D. (University of Wisconsin-Madison), Associate Professor, Psychology and Associate Dean, College of Arts and Sciences
Dalrymple, George, Ph.D. (University of Toronto), Associate Professor, Biological Sciences
Damian, Carol Ph.D. (University of Miami), Assistant Professor, Visual Arts
Darci, Yesim, Ph.D. (University of Rochester), Associate Professor, English
Daruwala, Maneck, Ph.D. (University of Rochester), Associate Professor, Physics
de Alonso, Irma, Ph.D. (University of York, England), Associate Professor, Economics
de Jongh, Elena, Ph.D. (Tulane University), Associate Professor, Modern Languages
de la Cuesta, Leonel A., Ph.D. (The Johns Hopkins University), Associate Professor, Modern Languages
del Valle, Eduardo, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts
Delgado, Milagros, Ph.D. (University of Miami), Assistant Professor, Chemistry
Deng, Yi, Ph.D. (University of Pittsburgh), Assistant Professor, School of Computer Science
Deitwiler, Bruce, J.D., Ph.D. (Cornell University), Associate Professor, Political Science
DiPasquale, Theresa M., Ph.D. (University of Virginia), Assistant Professor, English
Downey, Timothy, M.S. (State University of New York-Albany), Instructor, School of Computer Science
Downum, Kelsey, Ph.D. (University of British Columbia), Associate Professor, Biological Sciences
Draper, Grenville, Ph.D. (University of the West Indies), Professor and Chairperson, Geology
Draper, Paul, Ph.D. (University of California-Irvine), Associate Professor, Philosophy and Religious Studies
Dufresne, John, M.F.A. (University of Arkansas), Assistant Professor, English
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<th>Name</th>
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<th>University</th>
<th>Instructorship</th>
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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.

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Master’s Degree Programs

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

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

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

Admission Requirements

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

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

Application Procedures

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

1. Submit a Graduate Application for admission to the Admissions Office. Application Forms will be mailed upon request. The admission process may require as long as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant’s former institution(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, MIS, MS, or MIST degrees. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded ‘D’, ‘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 a management generalist who has a breadth of knowledge and understanding of business and who is oriented toward pragmatic problem-solving. The courses leading to the MBA degree are designed to provide experience in the techniques and concepts of business administration.

The MBA program has two tracks:

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

2. A track of up to 61 hours for students who have a) a business undergraduate degree awarded more than five years prior to acceptance into this program, b) a business undergraduate degree from a school not accredited by the AACSB, or c) a non-business undergraduate degree. This track consists of 21 hours of non-waivable 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)

ACG 6026 Accounting for Managers
ECP 6705 Managerial Economics I
ECP 6715 Macroeconomic Forecasting for Management
GEB 6445 Legal Environment of Business
MAN 6569 Managerial Decision-Making
MAR 6805 Marketing Management
QMB 6603 Quantitative Methods in Management

Nine Core Courses (28)

ACG 6175 Financial Reporting and Analysis
FIN 6428 Financial Management
FIN 6456 Quantitative Methods in Financial Analysis
MAN 6204 Organization and Management Theory
MAN 6245 Organizational Behavior
MAN 6501 Operations Management
MAN 6830 Organization Information Systems
MAN 6830L Organization Information Systems Lab
MAN L726 Policy Analysis
MAR 6816 Advanced Marketing Management

Four Elective Courses (12)

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

CBA Unit

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

Concentration

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

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, race, color, creed, handicap, marital status, national or ethnic origin.

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

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

School of Accounting
James H. Scheiner, Professor and Director
Rolf Auster, Professor
Delano H. Berry, Assistant Professor
William L. Campfield, Professor Emeritus
Jack L. Carter, Assistant Professor
Lucia S. Chang, Professor
Yong S. Choe, Assistant Professor
Lewis F. Davidson, Professor
Manuel Dieguez, Lecturer
Mortimer Dittenhofer, Professor
Donald W. Falt, Instructor and Associate Dean
Georgina Garcia, Lecturer
Milin H. Guo, Assistant Professor
Rosette C. Hallbauer, Associate Professor
Harvey S. Hendrickson, Professor
Kevin Kemerer, Assistant Professor
David Lavin, Associate Professor
Myron S. Lubell, Associate Professor
Kenneth S. Most, Professor
Leandro S. Nunez, Lecturer
Robert B. Oliva, Associate Professor
Felipe Pomeranz, Distinguished Lecturer, and Director, Center for Accounting, Auditing, and Tax Studies
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Bernadette Ruf, Assistant Professor
Robert W. Rutledge, Assistant Professor
Paul J. Schlaeter, Assistant Professor
John T. Sennett, Professor
Barbara T. Uliss, Assistant Professor
Richard H. Wiskeman, Jr., Lecturer
John Wrieden, Lecturer
Harold W. Wyman, Professor and Dean
Dorla Yeaman, Associate Professor
Shu Yeh, Assistant Professor

The School of Accounting offers two graduate degree programs, Master of Accounting and Master of Science in Taxation. The two programs are designed for students who have completed an undergraduate degree in accounting, or the equivalent, from a regionally accredited college or university. Equivalency of undergraduate degrees will be determined by the Director of the School of Accounting. Students whose degrees are in majors other than accounting will be required to complete business or accounting deficiencies, or both. Before a student with deficiencies may take courses in either program, the Director of the School must approve the student's program of study.

A student with a degree in business who is admitted to the M.Acc. program may be required to complete up to six accounting pre-core courses (21 semester hours) from the following:

- ACG 6105 Accelerated Financial Accounting I
- ACG 6115 Accelerated Financial Accounting II
- ACG 6655 Auditing and Accounting Systems
- ACG 6345 Management Accounting and Control
- BUL 6124 Survey of Business Law
- TAX 6005 Income Tax

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 (Policy Analysis) 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 preregistered during a two-week period commencing three weeks prior to official university registration.

Master of Accounting (M.Acc.)

The M.Acc. degree is designed to prepare students for entry and advancement in the accounting profession and to provide the additional formal education needed by persons already in accounting and other fields seeking either a career change or advancement, or both.

The M.Acc. degree is available in the concentrations of accounting/auditing, systems, government accounting, and corporate management accounting, and a separate track of government
accounting and auditing. These are designed to prepare the students for the careers described below:

### Concentration/Track

<table>
<thead>
<tr>
<th>Career</th>
<th>Accounting/ Auditing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Accounting/Auditing</td>
<td>Independent Accountant in the public accounting profession</td>
</tr>
<tr>
<td>Systems</td>
<td>Accounting systems, consultant, auditor, or officer in a business corporation or public accounting.</td>
</tr>
<tr>
<td>Internal</td>
<td>Industry or Government Auditing internal auditor</td>
</tr>
<tr>
<td>Corporate Management/Auditing</td>
<td>Internal accountant, auditor, or officer in a business corporation.</td>
</tr>
</tbody>
</table>

A student who wishes to sit for the CPA examination must select courses which satisfy the 30 hours of post-baccalaureate study required by the Florida Statute. Relevant portions of the Florida Statute are detailed below.

### M.Acc. Program Concentrations

The M.Acc. program with a concentration in financial accounting/auditing, systems, internal auditing, or corporate/management accounting consists of two parts requiring 30 hours: the accounting core (nine semester hours) and the elective (21 semester hours).

### Accounting Core Requirements

- **ACG 6135** Seminar in Financial Accounting Theory I
- **ACG 6657** The Environment of Accounting
- **ACG 6437** Advanced Accounting Systems

Courses in accounting are not transferable unless approved in advance by the Director of the School of Accounting.

The accounting elective requirements are seven courses (21 semester hours) selected from the following three groups of courses:

1. No more than two tax courses from these:
   - **TAX 6105** Taxation of Corporations I
   - **TAX 6205** Partnership Taxation
   - **TAX 6065** Tax Research Practice and Procedure

### 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.

### 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).

### 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 Accountant Examination, and upon successful completion of the examination be certified in the State of Florida. There is no additional experience requirement.

### Decision Sciences and Information Systems

- **Daniel Robey**, Professor and Chairperson
- **Dinesh Batra**, Assistant Professor
- **Joyce J. Elam**, Professor and James L. Knight Eminent Scholar
- **Sushil K. Gupta**, Professor and Vice Provost
- **Peeter J. Kirs**, Assistant Professor
- **Christos P. Koulamas**, Assistant Professor
- **Jerzy Kyparissis**, 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. Zegan**, 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. Dalgier, Associate Professor
Krishnan Dandapani, Associate Professor
Shahid Hamid, Assistant Professor
James Keys, Instructor
Simon Pak, Associate Professor
All M. Partizan, 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, financial 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
Richard Ahlers, Instructor
Constance S. Bates, Associate Professor
Herman Dorsett, Associate Professor
Dana L. Farrow, Professor and Associate Dean
Eames Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Richard M. Hodgetts, Professor
William T. Jerome, Distinguished University Professor
Willabith Jordan, Instructor
K. Galen Kroek, Associate Professor and Director, Doctoral Studies
Jan B. Luytjes, Professor
Philip H. Mann, Lecturer
Kari O. Magnusen, Associate Professor
Modesto A. Maldique, Professor and University President
Sherry Moss, Assistant Professor
Christine Nielsen, Associate Professor
Eleanor Polster, Instructor
Antonio F. Pradas, Lecturer
Kanna Ramawamy, Assistant Professor
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Ronnie Silverblatt, Associate Professor
George Sultja, Associate Professor
William M. Taggart, Professor
Anisya S. Thomas, Assistant Professor
Enzo Valenz, Professor

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. This expansion has resulted in the development of interdependent economic systems with all the political ramifications of such interdependence. 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 global character of the program is not only to be found in the curriculum, but within the multina-tional composition of the students enrolled in the program.

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.

**Pre-Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6245</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>ACG 6026</td>
<td>Accounting for Managers</td>
</tr>
<tr>
<td>MAR 6805</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Quantitative Methods in 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>ECP 6705</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>MAN 6569</td>
<td>Managerial Decision-Making</td>
</tr>
<tr>
<td>FIN 6428</td>
<td>Financial Management</td>
</tr>
<tr>
<td>MAN 6608</td>
<td>International Business</td>
</tr>
</tbody>
</table>

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6255</td>
<td>International Accounting</td>
</tr>
<tr>
<td>BUL 6850</td>
<td>International Commercial Law</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>International Finance</td>
</tr>
<tr>
<td>MAN 6603</td>
<td>Problems in Comparative Management</td>
</tr>
<tr>
<td>MAN 6635</td>
<td>International Business Policy</td>
</tr>
<tr>
<td>MAR 6158</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MAN 6617</td>
<td>Managing Global Production and Technology</td>
</tr>
<tr>
<td>MAN 6416</td>
<td>Corporate Negotiations</td>
</tr>
</tbody>
</table>

In addition to the core, MIB candidates are required to take five electives. All electives must be approved by the advisor and 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 five electives from those listed below so as to have a concentration or specialization within a particular area. For example, suggested course sequences for concentrations in International Banking or Management of Science, Technology, and Innovation are given below:

**International Banking Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6315</td>
<td>Commercial Banking</td>
</tr>
<tr>
<td>FIN 6325</td>
<td>Current Issues in Commercial Banking</td>
</tr>
<tr>
<td>FIN 6346</td>
<td>Credit Analysis</td>
</tr>
<tr>
<td>FIN 6625</td>
<td>International Bank Management</td>
</tr>
<tr>
<td>FIN 6626</td>
<td>International Bank Lending Policies and Practices</td>
</tr>
</tbody>
</table>

Management of Science, Technology, and Innovation concentration (special approval of Department required):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6679</td>
<td>Master's Project in International Business</td>
</tr>
<tr>
<td>MAN 6805</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>ISM 6045</td>
<td>Current Economic and Social Implications of Information Systems</td>
</tr>
<tr>
<td>ISM 6305</td>
<td>Information Systems Planning</td>
</tr>
<tr>
<td>MAN 6675</td>
<td>Special Topics in International Business</td>
</tr>
</tbody>
</table>

**Suggested Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6625</td>
<td>International Bank Management</td>
</tr>
<tr>
<td>FIN 6626</td>
<td>International Bank Lending Policies and Practices</td>
</tr>
<tr>
<td>MAN 6615</td>
<td>International Labor-Management Relations</td>
</tr>
<tr>
<td>MAN 6675</td>
<td>Special Topics in International Business</td>
</tr>
<tr>
<td>MAN 6606</td>
<td>International Business Environment</td>
</tr>
<tr>
<td>REE 6935</td>
<td>Seminar in International Real Estate</td>
</tr>
<tr>
<td>ECO 5709</td>
<td>The World Economy</td>
</tr>
<tr>
<td>MAN 6601</td>
<td>International Management</td>
</tr>
<tr>
<td>MAN 6679</td>
<td>Master's Project in International Business</td>
</tr>
<tr>
<td>MAN 6805</td>
<td>Entrepreneurship</td>
</tr>
</tbody>
</table>

Up to two other elective with the permission of the Department.

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

**Graduate with Non-Business Degree**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ACG 6026</td>
<td>MAN 6245</td>
</tr>
<tr>
<td>Spring</td>
<td>MAN 6805</td>
<td>MAR 6158</td>
</tr>
<tr>
<td>Summer</td>
<td>ECP 6705</td>
<td>MAN 6669</td>
</tr>
<tr>
<td>Fall</td>
<td>MAN 6830</td>
<td>QMB 6603</td>
</tr>
</tbody>
</table>

**Graduate with Business Degree**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ACG 6255</td>
<td>MAN 6617</td>
</tr>
<tr>
<td>Spring</td>
<td>FIN 6636</td>
<td>MAN 6635</td>
</tr>
<tr>
<td>Summer</td>
<td>BUL 6850</td>
<td>MAN 6603</td>
</tr>
<tr>
<td>Fall</td>
<td>MAN 6636</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ACG 6255</td>
<td>MAN 6617</td>
</tr>
<tr>
<td>Spring</td>
<td>MAN 6603</td>
<td>Elective</td>
</tr>
<tr>
<td>Summer</td>
<td>FIN 6636</td>
<td>Elective</td>
</tr>
</tbody>
</table>

The purpose of sequencing the courses is not only to assure having the appropriate prerequisites for the program, but also to build a class consciousness which may lead to an esprit-de-cors that can be of great value at some future time.
Marketing and Business Environment

Barnett A. Greenberg, Professor and Chairperson
Mary Jane Burns, Instructor
Frank Carmone, Business Men’s Insurance Professor of Marketing
Lucette Comer, Assistant Professor
Anne Fiedler, Instructor
Dennis J. Gayle, Associate Professor
Jonathan N. Goodrich, Associate Professor
Robert Hoger, Associate Professor
Carl Kranendonk, Instructor
Henry A. Laskey, Assistant Professor
Donghoon Lee, Assistant Professor
J.A.F. Nicholls, Associate Professor
Marla Ortiz, Associate Professor
Karen Paul, Professor
Lynda Raheem, Instructor
Sydney Roslow, Professor Emeritus
Bruce Seaton, Associate Professor
Phillip Shepherd, Associate Professor
John Tsaklikis, Assistant Professor
Arturo Vasquez, Assistant Professor

The Department of Marketing and Business Environment offers a concentration in the Master of Business Administration program.

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: (30)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 5507</td>
<td>Issues and Problems in Accounting for Nonprofit Entities</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5395</td>
<td>Seminar in Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5675</td>
<td>Operational Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5627</td>
<td>Systems Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5846</td>
<td>Seminar in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5806</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5256</td>
<td>International Dimensions of Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5696</td>
<td>Statistical Methods in Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5137</td>
<td>Standards and Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5307</td>
<td>Advanced Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5386</td>
<td>Controllership</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5905</td>
<td>Independent Study in Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5936</td>
<td>Special Topics in Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5810</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5662</td>
<td>Accountant’s Liability</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5661</td>
<td>Law for Accountants</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5406</td>
<td>Taxation of Estates and Trusts</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5066</td>
<td>Taxation Research and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5106</td>
<td>Corporation Taxation</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5506</td>
<td>International Dimensions of Taxation</td>
<td>3</td>
</tr>
</tbody>
</table>

Banking Certificate

The CIB (Certificate in Banking) is designed for practicing bank managers and bank employees. The core program consists of four undergraduate or graduate Finance courses. Upon successful completion of the four course sequence, a Certificate signed by the Dean of the College of Business Administration will be awarded.

Participants in the CIB Program must meet certain admission requirements. In general, those intending to take undergraduate level courses must have an Associate of Arts Degree or its equivalent, and must meet the other lower division preparation requirements of the College. Participants planning to take graduate level courses must hold a Bachelor’s degree, submit a satisfactory score on the Graduate Management Admissions Test, provide transcripts of all undergraduate work, and meet all admission requirements of the College’s graduate programs.

Program requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6487</td>
<td>Financial Risk Management-Financial Engineering</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6428</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6426</td>
<td>Financial Management Policies</td>
<td></td>
</tr>
<tr>
<td>FIN 6246</td>
<td>Financial Markets and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6315</td>
<td>Commercial Banking</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6346</td>
<td>Credit Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Applicants who are interested in pursuing a Master’s degree in Finance should take FIN 6426, FIN 6246, FIN 6315, and FIN 6346 rather than FIN 3414, FIN 4303, FIN 4324, and FIN 4345.
International Bank Management Certificate

The Certificate in International Bank Management (CIBM) is designed to train existing and future bankers in the areas of international banking policy, practice, and technique. Its interest is to provide an interface between the domestic and international side of banking for bank managers. This certificate is not open to finance majors.

Participants in the CIBM must meet the admission requirements listed for the Certificate in Banking Program.

Required Courses

- FIN 6487 Financial Risk Management - Financial Engineering 3 or
- FIN 6428 Financial Management 3
- FIN 6426 Financial Management Policies 3
- FIN 6315 Commercial Banking 3 or
- FIN 6325 Current Issues in Commercial Banking 3 or
- FIN 6346 Credit Analysis and Loan Evaluation 3
- FIN 6636 International Finance 3
- FIN 6625 International Bank Management 3

Certificate in International Business

A Certificate program is available to graduate students wishing to acquire an in-depth understanding of international business, but who find it unnecessary or inconvenient to enroll for a graduate degree program. Such students may already have the MBA degree, or an undergraduate business degree.

Students in the Certificate in International Business program must meet the general admission requirements for graduate study in the College of Business Administration, and satisfactorily complete an approved program of study consisting of four courses, as follows:

- MAN 6608 International Business 3
- MAN 6635 International Business Policy 3

and two graduate international business courses approved by the Chairperson of the Department of Management and International Business.

Certificate in Marketing

At the time of publication of this catalog, a proposal for a Certificate in Marketing is being processed. The program is designed for marketing executives in the areas of promotion, international marketing and/or strategic marketing management.

It is anticipated that admission to this 15 credit-hour program will require a bachelor degree, presentation of transcripts for previous academic work, GMAT score, and general qualification for graduate study in the College of Business Administration.

Those interested in the Marketing Certificate should contact the Department of Marketing and Business Environment for further information.

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. The 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 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; REAL - 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 into contact. Includes legislative and administrative activities and operating functions having high accounting and auditing involvement. Prerequisite: Admission to graduate program in School of Accounting or permission of School Director.

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

ACG 5519 Contemporary Issues in Government Accounting (AC) (3). Research and reporting on current issues related to government accounting. Prerequisite: Admission to graduate program in School of Accounting or permission of School Director.

ACG 5545 Analysis of Governmental Financial Reports (AC) (3). Describes content of governmental financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress. Prerequisites: ACG 6515 and admission to graduate program in the School of Accounting or permission of School Director.

ACG 5546 Governmental Planning and Budgetary Accounting with Cases (AC) (3). Budgeting in governments 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: ACG 6505, ACG 6525 and admission to the graduate program in the School of Accounting or permission of the School Director.

ACG 5547 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: ACG 6505 and admission to the graduate program of the School of Accounting or permission of the School Director.

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 and control of critical systems. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5675 Operational Auditing (AC) (3). Examines operational auditing as a professional discipline for testing and evaluating totality of planning and operating controls; particular attention to development, selling and implementation of recommendations for operating improvement and cost containment. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5696 Seminar in Auditing (AC) (3). An in-depth study of recent developments in auditing. Prerequisite: ACG 4651 or equivalent and permission of Accounting certificate program advisor.

ACG 5806 Seminar in Financial Accounting (AC) (3). An in-depth study of recent developments in financial accounting. Prerequisites: ACG 4111 and permission of Accounting certificate program advisor.

ACG 5846 Statistical Methods in Accounting and Auditing (AC) (3) For-
mulation, analysis and implementation on a microcomputer of mathematical models in financial and managerial accounting and auditing. Prerequisite: Permission of Accounting certificate advisor.

ACG 5905 Independent Study in Accounting and Auditing (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisites: Written permission of instructor, accounting certificate program advisor, School Director, and Dean.

ACG 5936 Special Topics in Accounting and Auditing (AC) (3). For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Written permission of instructor, accounting certificate program advisor, School Director, and Dean.

ACG 6005 Financial Accounting Analysis (AC) (3). Introduction to the theory and practice of financial accounting and reporting, with emphasis on understanding and determining income and financial position. (No credit will be given to students who have had undergraduate or graduate equivalents). Prerequisite: GMB 6603 or equivalent.

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 6105 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 6135 Seminar in Financial Accounting Theory I (AC) (3). A study of the theoretical structure of accounting, with special attention to asset and income measurement, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisite: Baccalaureate in accounting or equivalent and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6145 Seminar in Financial Accounting Theory II (AC) (3). A continuation of ACG 6135, with emphasis on the problems of accounting for price-level changes and other current issues. Prerequisite: ACG 6135 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6175 Financial Reporting and Analysis (AC) (3). Comprehensive treatment of analysis of financial statements as aid for decision making: looks at current state of financial reporting practices and impact of published statements on economic systems. Prerequisites: ACG 6026, FIN 6428 or equivalent. Not open to M.S.T. or M.Acc. students.

ACG 6205 Financial Accounting III (AC) (3). Underlying concepts and ethical, regulatory and business environment of financial reporting, with emphasis on accounting for partnerships, international corporations, and business combinations. Prerequisite: ACG 4111 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6245 Accounting and Auditing Compliance Issues (AC) (3). Corporate, government and public accounting compliance with response to institutional and political regulation; attention to compliance in specialized industries such as healthcare, transportation, financial institutions, real estate and construction. Prerequisites: ACG 4111 or equivalent, ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisite: ACG 6026 or equivalent, and admission to a graduate program in the School of Accounting or permission of the School Director.

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 6205, 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 planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisite: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6385 Managerial Control and Controllership (AC) (3). Control methods for management; control structure, planning and forecasting for budgets; the functions of controllership, including cash management, risk management,
investments, tax administration and records management. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6405 Seminar In Accounting Information Systems I (AC) (3). Accounting information systems security and control and legal and ethical compliance; control of computer failure and abuse and compliance with laws, regulations, and standards. Computer usage required. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

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, control, and audit of large computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required. Prerequisite: 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 developing concept of consolidated financial statements for governments. Also covers advanced areas of accounting, e.g., concepts, investment accounting, grant accounting, and pension accounting. Prerequisites: ACG 6505, ACG 6584 admission to graduate program in School of Accounting or permission of School Director.

ACG 6517 Audit of Governmental Entities (AC) (3). Covers methods of audits of governments by independent public accountants, coordination with internal audit staffs, describes audits of governments by internal auditors (audits of fidelity, efficiency and effectiveness); covers current single audit concept. Prerequisites: ACG 6505, admission to the graduate program in the School of Accounting, or permission of School Director.

ACG 6525 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 6555 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 6557 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 6575 Studies In Auditing II (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 6576 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 6577 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 6596 Studies In Auditing I (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 6461 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 prehistoric 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, 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 securities 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 in 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, and accounting 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 other time-related financial markets. This course is designed for Ph.D. students in accounting and business who already have ad-
advanced statistical and financial training, and serves as an introduction to other doctoral courses. Prerequisite: Permission of Ph.D. advisor.

ACG 7938 Seminar: Special Topics in Accounting Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of accounting. Prerequisite: Permission of Doctoral advisor in Accounting.

BAN 5652 Savings and Loan Management (Fl) (3). Financial management of savings and loan associations and other 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 6561 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 6630 Survey of Business Law (AC) (3). Overview of substantive and procedural aspects of contract law, U.C.C., partnerships and corporations, accountant's liability, and other aspects of government regulation of business. Prerequisite: Admission to a graduate program in the School of Accounting, or permission of the School Director. Not open to those with undergraduate accounting degrees.

BUL 6831 Business Law II (AC) (3). Substantive issues and principles of law including agency, partnership and corporation law, commercial paper, antitrust, employment, administrative, environmental and computer law; ethical issues in business law.

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 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 (Fl) (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 (Fl) (3). The financial markets, financial instruments, and managerial 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 profitability. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

FIN 5495 Leasing and Mergers (Fl) (3). Discussion-oriented course; will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisite: FIN 3414 or FIN 6456, or equivalent.

FIN 6246 Financial Markets and Institutions (Fl) (3). Analysis of the characteristics and efficiency of the money markets and capital markets. Types of money market and capital market instruments, and the role of financial institutions in these markets. Prerequisite: FIN 6428.

FIN 6315 Commercial Banking (Fl) (3). The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions. Prerequisite: FIN 6428.

FIN 6316 Management of Non-Bank Financial Institutions (Fl) (3). The objectives, constraints, and policies applicable to the management of non-bank financial institutions, savings and loans associations, credit unions, REITs, and insurance, investment and finance companies. Prerequisite: FIN 6428.

FIN 6325 Current Issues in Commercial Banking (Fl) (3). Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of the financial sector. Prerequisite: FIN 6315 or equivalent.

FIN 6346 Credit Analysis (Fl) (3). This course examines how the accounting framework is integrated with tools and techniques for the analysis and interpretation of financial statements. Evaluation of risk in domestic and foreign loans and the pricing of credit facilities. Prerequisite: FIN 6428.

FIN 6426 Financial Management Policies (Fl) (3). The selection and management of current and permanent assets to achieve corporate objectives. The selection and management of alternative sources of funds to obtain the optimal capital structure. Prerequisite: FIN 6428 or equivalent.
FIN 6425 Financial Management (FI) (3). In-depth examination of asset, liability, and capital structure management, with emphasis on capital budgeting techniques; risk evaluation; working capital management; and methods of short-term, intermediate, and long-term financing. Prerequisite: AC 6026 or equivalent.

FIN 6466 Competitive Strategy (FI) (3). Provision of tools for managerial decision-making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure, and competitive strategy. Prerequisite: FIN 6456.

FIN 6455 Financial Modeling and Forecasting (FI) (3). An introduction to financial modeling and forecasting. Emphasis is on computer models and forecasting the financial variables. Prerequisite: Permission of instructor and FIN 6456.

FIN 6456 Quantitative Methods in Financial Analysis (FI) (3). The application of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: FIN 6428 or equivalent.


FIN 6508 Financial Futures and Fixed Income Investments (FI) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Hedging, speculative activity, and other risk-return procedures are discussed. Prerequisite: FIN 6456 or equivalent.

FIN 6516 Securities Analysis (FI) (3). An analysis of contemporary securities markets and their operations. The determinants of the risk-reward structure of equity and debt securities. Prerequisite: FIN 6456 or equivalent.

FIN 6525 Portfolio Management (FI) (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 (FI, MA) (3). Management of the international banking functions setting goals and developing strategies, establishing organizational structure and managing operations. International banking services, foreign lending, risks, restraints, and portfolio considerations. International banking trends and implications for regulation. Prerequisite: FIN 6516 or equivalent.

FIN 6626 International Bank Lending Policies and Practices (FI, MA) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans. Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio. Prerequisite: FIN 6516 or equivalent.

FIN 6636 International Finance (FI, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. The relationships between world and capital markets and prospects for integration. The role of multilateral institutions, multinational corporations, states, and the structure of trade in the international short and long-term capital flows. The development of financial centers. Prerequisite: FIN 6428 or equivalent.

FIN 6716 Financial Management of Governmental Organizations (FI) (3). The budgetary process of identifying, justifying, and allocating funds. The securing of funds in the market and the efficient allocation of funds. Prerequisite: FIN 6456 or equivalent.

FIN 6804 The Theory of Finance (FI) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6456 or equivalent.

FIN 6906 Independent Study in Finance (FI) (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 (FI) (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 (FI) (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 (FI) (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 (FI) (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 (FI) (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 7807 Seminar in Corporate Finance (FI) (3). Familiarizes students with recent developments in finance theory. Includes such topics as the influence of leverage, uncertainty and the cost of capital, agency theory and related topics. Prerequisite: Permission of instructor.

FIN 7808 Financial Theory I (FI) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of instructor.
FIN 7809 Financial Theory II (Fl) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and option pricing. Prerequisite: Permission of instructor.

FIN 7810 Financial Theory III (Fl) (3). This sequel to Financial Theory I and II focuses on microfinance. Discusses issues primarily in corporate finance such as effects of taxation, agency theory, and signaling theory. Prerequisite: Permission of instructor.

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 intermedation. 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 Analysis and Design (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. Prerequisites: ISM 6205 and ISM 6106.

ISM 6205 Data Structures and File Processing In Business (DS) (3). This course deals with major levels of data organization, data base management, hierarchical and associative structures, file maintenance, and privacy and security measures and safeguards. Prerequisites: MAN 6830, CGS 3403, and COP 2210.

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 Decision Support Systems (DS) (3). Concept of decision support is examined and types of applied decision support systems in business are surveyed. Prerequisites: MAN 6830, MAN 6569, ISM 6205, and ISM 6106.

ISM 6455 Microcomputer Applications in Business (DS) (3). Fundamentals and comparison of
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, inventory management. This course has a professional orientation similar to the APICS certification guidelines. Pre-requisite: 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 concept 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 consultation and action skills, including schools and organizations. Supervised laboratory on systematic consultation and action skills, including method of assessment (survey feedback, milling, 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 organization 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 6351 Personnel Training and Development (MA) (3). Determining training needs, training methods, the training staff, Supervisor development, Equal Employment Opportunity management.

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

MAN 6501 Operations Management (DS) (3). This course covers analysis, design, and operations of organizational systems. The systems approach is used to provide a framework or general model of analysis, to which specific concepts, quantitative techniques, and tools can be related. The material presented has application to any organization of people and machines, including hospitals, governmental agencies, service organizations, and industrial concerns. Prerequisite: MAN 6569.


MAN 6559 Seminar in Management Science (DS) (3). New topics application areas will be explored. Lectures will relate to the latest advances in the theory and application of management science. Prerequisite: Instructor's approval.

MAN 6569 Managerial Decision-Making (DS) (3). This course will investigate and analyze the decision-making problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603 or equivalent.

MAN 6585 Productivity Management Seminar (DS) (3). Analysis of productivity in manufacturing and service organizations and methodology for productivity improvement. Extensive cases, projects, tours, and guests speakers. Prerequisite: Graduate students (or CBA certificate students).

MAN 6601 International Management (MA) (3). Graduate seminar focusing on management issues confronting the multinational enterprise. Includes basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; international financial management; export-import procedures; comparative business customs; personnel management; and institutions affecting the multinational manager.

MAN 6603 Problems in Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at underscoring the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

MAN 6606 International Business Environment (ME, MA) (3). A macro-examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications and societal forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6608 International Business (MA) (3). International variables as they affect managers. Theoretical constructs and their application to 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 Policy Analysis (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 the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 6830L Organization Information Systems Laboratory (DS) (1). Laboratory applications for MAN 6830.

MAN 6905 Independent Study in Management (MA) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty sponsor, Department Chairman, 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. Prerequisite: 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 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, emphasis-
ing topics, literature, methods, information sources, applications, 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 6158 International Marketing (ME) (3). This course discusses the nature and scope of international marketing, and explores problems facing multinational firms and other international marketing organizations, together with strategies for foreign market penetration. Prerequisite: MAR 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 roles 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 6705.

MAR 6805 Marketing Management (ME) (3). A study of analysis and application of theory and problem solving in marketing management. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

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 6805 or equivalent.

MAR 6915 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required.

MAR 6936 Special Topics in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 7246 Seminar in International Marketing (ME) (3). Analyzes distinctive characteristics and trends in foreign markets. Explores alternative international marketing strategies, considering critical environmental differences among countries.

MAR 7622 Marketing Research Methodology I (ME) (3). Philosophy, concepts, methods of marketing research design. Experimental methods, sampling procedures, measurement techniques, other methodological considerations. Prerequisites: Successful completion of first year research methods requirements in a College of Business Ph.D. Program or permission of instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the dynamic interaction between marketing management and the corporate environment. Encourages development of an ability to design and implement effective marketing strategies.

MAR 7667 Seminar in Marketing Management (ME) (3). Analytical approaches to strategic and tactical marketing and public policy decisions. Emphasis is on relevant concepts from behavioral sciences as applied to marketing decisions.


MAR 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 Sectoral Marketing (MA) (3). Course includes retailing, wholesaling, pricing, distribution, advertising, sales promotion and management, personal selling, international services and macro-marketing; 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 6003 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 management 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 6569 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 GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics, and individual projects. Students use the computer, and existing programs, to analyze hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions.

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-equity 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 decisions. 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; and 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; maintenance; 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 develop-
ment, 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) (1-6). 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.


REE 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.

REE 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.


REE 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.

REE 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, collapsables, attributes, consolidations, S-Corp. AET and PHC's. Prerequisites: Permission of Accounting certificate program advisor.

TAX 5466 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 6306 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 6015 Taxation of Corporations and Partnerships (AC) (3).** An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisites: TAX 4001 or equivalent with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director.

**TAX 6065 Tax Research (AC) (3).** An in-depth study and application of both traditional and computer-assisted tax research tools and of relevant practice and procedural mechanisms affecting taxation. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

**TAX 6105 Taxation of Corporations I (AC) (3).** The study of federal tax consequences of the formation and operation of corporations; distributions and redemptions; elections of Subchapter S status. Prerequisites: TAX 6005 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 6005 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 6005 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 6005, 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 6005 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 postmortem 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 6005 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: ACC 6026 or equivalent and permission of Accounting advisor.

**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 6005 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 6005 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 6005 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 in tax law 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 6005 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 with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: TAX 6005 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 of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

**TAX 7815 Seminar: Tax Policy: An Analysis of the Issues (AC) (3).** An in-depth examination of the horizontal and vertical equity issues in taxation, the effects on income distribution,
business decisions, foreign balance of payments, public finance issues, and economic policy. Emphasized are the areas of empirical research via a via legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

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

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

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

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

TRA 6936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

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**College of Business Administration**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Degree</th>
<th>University/Institution</th>
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<tbody>
<tr>
<td>Dean</td>
<td>Harold E. Wyman</td>
<td>Ph.D.</td>
<td>(Northwestern University)</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Donald W. Fair</td>
<td>Ph.D.</td>
<td>(University of Texas at Austin)</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Dana L. Farrow</td>
<td>Ph.D.</td>
<td>(University of Florida)</td>
</tr>
<tr>
<td>Director, School of Accounting</td>
<td>James H. Schelker</td>
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**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:**

- Ahlers, Richard, M.B.A. (University of Detroit), Instructor, Management and International Business
- Anderson, Gary, Ph.D. (University of Illinois), Associate Professor, Finance
- Austler, Rolf, Ph.D. (Northwestern University), CPA, CMA, Professor, Accounting
- Barber, Joel, Ph.D. (University of Arizona), Assistant Professor, Finance
- Bates, Constance S., D.B.A. (Indiana University), Associate Professor, Management and International Business
- Batra, Dinesh, Ph.D. (Indiana University), Assistant Professor, Decision Sciences and Information Systems
- Bear, Robert M., Ph.D. (University of Iowa), Professor, Finance
- Beaton, William R., Ph.D. (Ohio State University), Professor, Finance
- Berry, Delano H., Ph.D. (University of Kentucky), CMA, Assistant Professor, Accounting
- Blewag, Gerald O., Ph.D. (Northwestern University), Ryder System Professor of Business Administration, Finance
- Burns, Mary Jane, M.B.A. (University of Tennessee), Instructor, Marketing and Business Environment
- Campfield, William, Ph.D. (University of Illinois), CPA, Professor Emeritus, Accounting
- Carmone, Frank, Ph.D. (Waterloo University), Business Men's Professor of Marketing
- Carter, Jack L., Ph.D. (University of Cincinnati), Assistant Professor, Accounting
- Chang, Chung-Hao, Ph.D. (Northwestern University), Assistant Professor, Finance
- Chang, Lucia S., Ph.D. (University of Texas at Austin), Professor, Accounting
- Choe, Yong S., Ph.D. (University of Florida), Assistant Professor, Accounting
- Comer, Lucette, Ph.D. (University of Maryland), Assistant Professor, Marketing and Business Environment
- Daigle, Robert T., Ph.D. (University of Oklahoma), Associate Professor, Finance
- Dandapani, Krishnan, Ph.D. (Pennsylvania State University), Associate Professor, Finance
- Davidson, Lewis F., Ph.D. (Pennsylvania State University), Professor, Accounting
- Dessler, Gary, Ph.D. (City University of New York), Professor and Chairperson, Management and International Business
- Dieguez, Manuel, M.S.M. (Florida International University), CPA, Lecturer, Accounting
- Dittenhofer, Mortimer, Ph.D. (American University), Professor, Accounting
- Dorsell, Herman W., Ed.D. (Columbia University), Associate Professor, Management and International Business
- Elm, Joyce, J. (University of Texas, Austin), Professor and James L. Knight Eminent Scholar, Decision Sciences and Information Systems
- Fair, Donald W., M.Acc. (Bowling Green State University), CPA, Instructor, Accounting, and Associate Dean
- Farow, L. Dana, Ph.D. (University of Rochester), Professor, Management and International Business and Associate Dean
- Felder, Anne, M.B.A. (University of Miami), Instructor, Marketing and Business Environment
- Friday, Earnest, Ph.D. (University of Miami), Assistant Professor, Management and International Business
- Garcia, Georgina, M.S.M. (Florida International University), CPA, Lecturer, Accounting
- Gayle, Dennis J., Ph.D. (UCLA), Associate Professor, Marketing and Business Environment
- Gilbert, G. Ronald, Ph.D. (University of Southern California), Associate Professor, Management and International Business
- Goodrich, Jonathan N., Ph.D. (State University of New York at Buffalo),
Professor, Marketing and Business Environment

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Hallbauer, Rosalie C., Ph.D.
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Hamid, Shahid, Ph.D. (University of Maryland), Assistant Professor, Finance

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

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(Massachusetts Institute of Technology), Lecturer, Management and International Business, and Director, International Executive Education

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Seaton, Bruce, Ph.D. (Washington University), Associate Professor, Marketing and Business Environment

Selin, Maung K., Ph.D. (Indiana University), Assistant Professor, Decision Sciences and Information Systems

Sennett, John T., Ph.D. (Virginia Polytechnic Institute), Professor, Accounting

Shepherd, Phillip, Ph.D. (Vanderbilt University), Associate Professor, Marketing and Business Environment

Silverblatt, Ronnie, Ph.D. (Georgai State University), Associate Professor, Management and International Business

Simmons, George B., D.B.A. (Indiana University), Distinguished University 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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Taggart, William M, Ph.D. (University of Pennsylvania), Professor, Management and International Business

Thomas, Anisya, S. Ph.D. (Virginia Polytechnic and State University), Assistant Professor, Management and International Business

Tsallkis, John, Ph.D. (University of Mississippi), Assistant Professor, Marketing and Business Environment

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Valenzi, Enzo R., Ph.D. (Bowling Green State University), Professor and Chairperson, Management and International Business

Vasquez, Arturo, Ph.D. (Texas Tech University), Assistant Professor, Marketing and Business Environment

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, Dorla, J.D. (University of Tennessee), Associate Professor, Accounting

Yeh, Shu, Ph.D., (UCLA), Assistant 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

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
- Foundations: Urban, Multicultural, International Education
- Health, Physical Education, and Recreation
- Middle, Secondary, and Vocational Education

Programs of studies include adult education and 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), history education, home economics education, international development education, mathematics education, modern languages education, music 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), physics education, reading education, social studies education, special education, teaching English as a Second Language (TESOL), and vocational education programs (administration and supervision, health occupations education, technology 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 curricular changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General advisement is available by telephone: (305) 348-2768 for University Park, (305) 940-5820 for North 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 to ensure that 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 advanced 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.

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 Examina-

Graduate students will complete at least 30 semester hours of study beyond the bachelor's degree to earn a Master of Science degree in education. However, specific programs may require more than the minimum number of hours. Students may transfer a maximum six semester hours taken at another accredited college or university toward a master's degree program having 30-45 semester hours, and a maximum nine 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 'D' or 'F' 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.

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 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 University beyond the Master's degree. However, specific programs may require more than the minimum number of hours and may include six
semster 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 Programs

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, Music Education, Science Education, Reading Education, and Social Studies Education), Educational Administration and Supervision, and Exceptional Student Education. Advisement for these programs may be obtained by calling the appropriate Department Office or by contacting the Coordinator of Doctoral Programs at (305) 348-3202. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by examining program descriptions in this catalog.

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 Center on the Broward Community 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.

Students interested in information regarding the Broward program should call the College of Education at (305) 475-4156 or (305) 948-6747.

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 Bany, Associate Professor and Chairperson, Curriculum and Instruction
Carlos M. Alvarez, Associate Professor, International Development Education and Research
Peter J. Cistine, Professor, Educational Leadership
Joseph Cook, Professor, Community College Teaching
Charles Divita, Jr. Professor, Adult Education and Human Resource Development
Stephen M. Faln, 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, North Miami Campus
Lorraine R. Gay, Professor, Educational Research
Barry Greenberg, Professor, Educational Research, Community College Teaching
Lorina M. Novoa, Assistant Professor, Educational Research
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, educational leadership, and international development education. The department also provides research preparation for College of Education graduate programs. The department graduate programs and support services exist to enhance the College of Education's role of a professional school within the University. The graduate programs and services provide access and offer excellence in professional preparation of educational leaders, researchers, and planners. The programs serve students who focus on South Florida's urban challenges; State of Florida cultural, economic, and social development; national educational policy development; and interna-
The department offers Master of Science degrees in Adult Education and Human Resource Development, Educational Leadership, and International Development Education, the Specialist degree in Curriculum and Instruction and in Educational Leadership, and the Doctor of Education degree in Adult Education and Human Resource Development. The department also offers a Certificate Program in Educational Leadership for students who possess a graduate degree from an accredited institution of higher education and who seek State of Florida Certification in Educational Leadership. Specialties in elementary, middle, secondary, and higher education may be included in the program 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

The Graduate Program in Adult Education and Human Resource Development (AE/HRD) is designed for the individual who chooses to serve as training director/manager, instructional designer, teacher, instructor, trainer, counselor, or researcher in adult education and human resource development. Graduates are working in AE/HRD programs in business and industry, public schools, hospitals, governmental agencies, community colleges, universities, civic organizations, military service, or other agencies. Graduate programs of study are designed in relation to an individual’s specific interests, needs, and career goals.

Two master’s degree programs are offered: Human Resource Development and Adult Education.

The program in Human Resource Development is designed for persons interested in working in business and industry, government, health and other similar organizations. The program consists of 36 hours, with 24 hours (eight courses) required, and a minimum of 12 hours (four courses) of elective courses.

### Human Resource Development (HRD)

**Required Program:** (36)

**Required Core:** (24) (Courses are listed in required sequence)

- ADE 5081 Introduction to Adult Education and Human Resource Development 3
- ADE 5385 Adult Teaching and Learning 3
- ADE 5383 Instructional Analysis and Design 3
- ADE 6180 Organizational and Community Processes in AE/HRD 3
- ADE 6260 Management of AE/HRD Programs 3
- ADE 6286 Instructional Development and Implementation 3
- ADE 6945 Internship in AE or HRD 3
- EDF 5481 Analysis and Application of Education Research 3

**Advised Electives** 12

**Adult Education**

The program in Adult Education is designed for persons interested in working in public school or higher education adult and continuing education. This program meets the requirements for state certification in public school adult education administration. It consists of 30 hours, with 18 hours (six courses) required, and a minimum of 12 hours (four courses) of elective courses.

**Required Program:** (36)

**Required Core:** (18)

- ADE 5081 Introduction to Adult Education and Human Resource Development 3
- ADE 5180 Organizational/Community Processes in AE/HRD 3
- ADE 5260 Organization and Administration of Adult Education and HRD Programs 3
- ADE 5385 Adult Teaching and Learning 3
- EDF 5481 Analysis and Application of Education Research 3
- RED 6336 Teaching Reading in the Content Area 3

**Area of Professional Emphasis:** (12)

- EDA 6061 Introduction to Educational Leadership 3

**Guided Electives**

- EDG 6250 Curriculum Development and Improvement 3
- EDS 6050 Supervision and Staff Development 3
- Advised Elective 3

### Master of Science in Educational Leadership

The Master of Science degree program in Educational Leadership consists of courses and experiences designed to develop entry level competencies for persons seeking 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, formerly Administration and Supervision, all candidates must successfully complete the Florida Educational Leadership Core Curriculum and pass the Florida Educational Leadership Examination.

**Required Program:** (36)

- EDA 6061 Introduction to Educational Leadership 3
- EDA 6192 Leadership in Education 3
- EDA 6195 Communication in Educational Leadership 3
- EDA 6232 School Law 3
- EDA 6242 School Finance 3
- EDA 6503 The Principalship 3
- EDA 6271C Microcomputer Application for Administrators 3
- EDA 6930 Seminar in Educational Leadership 3
- EDF 5481 Analysis and Application of Educational Research 3
- EDS 6115 School Personnel Management 3
- Advised Elective 3

**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.

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), and/or (c) have a combined score (verbal and quantitative) of 1000 or higher on the GRE (students must submit the GRE scores regardless of their GPA or degree); and/or (d) have a graduate degree from an accredited institution of higher learning; (e) in the case of foreign students whose first language is other than English, a minimum score of 500 on the TOEFL examination is also required. (f) submit two letters of recommendation, preferably from persons in the academic community who are familiar with the applicant’s record and who are able to evaluate the applicant’s background, professional interest, and career goals; (g) submit a short essay of approximately 250 words concerning the applicant’s background, professional interests and goals in the area of International Development Education.

Degree Requirements

The Master’s program requires the completion of a minimum of 36 semester hours of coursework at the graduate level with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 36 semester hours are to be completed in accordance with the program curriculum.

Language Requirement

The student must demonstrate competence in the use of a modern language, other than English, prior to graduation. International students may demonstrate competence in their native language. Language courses will not count toward program completion.

Required Program: (36)

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 Multidisciplinary Perspective 3

Educational Research and Evaluation Methods: (6)
EDF 5481 Analysis and Application of Educational Research 3
EDF 5432 Methods and Evaluation 3

Educational Policy, Planning, Implementation/Management and Evaluation Skills: (12)
EDF 6654 Macro- and Micro-Planning in Education 3
EDF 6651 International Development Education: Educational Technology, Planning and Assessment 3
EDF 6656 International Development Education: Innovative Approaches in Educational Planning 3
EDF 6658 Selected Topics: International Development, Education, Current

Policy Issues and Problems 3
EDF 6905 Independent Study 3
EDF 6906 Directed Study in International Development Education 3
EDF 6972 Thesis in International Development Education 3

Dual Specialties: (12)
Electives:
The student will select, with advisor’s permission, a minimum of six semester hours from courses available in one of the following areas:
1. A content area of educational specialization;
2. Comparative/Intercultural Education;
3. System’s consultation;
4. Socioeconomic and political context of development;
5. Courses in any other area of special interest to the student.

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.

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 1000 on the Graduate Record Examination (GRE), verbal and quantitative scores, are required. Further, an interview with program faculty and two recommendations are required.

Doctor of Education Degree Programs

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.
Adult Education and Human Resource Development (HRD)

The doctoral program in Adult Education and Human Resource Development (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.

Admission Requirements

Applicants to the program must submit the following records and documents:

1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed Application for Graduate Admission.

The data from applicants is reviewed by an admissions committee. The criteria applied in reviewing the applicant’s file are noted below. Exceptions to one or more of the criteria may be granted provided the applicant has excelled in certain off-setting assessment areas.

1. 3.0 GPA in the upper-level undergraduate work;
2. 3.25 in all graduate work attempted;
3. A master’s degree from an accredited institution or equivalent preparation;
4. A score of at least 1000 on verbal and quantitative portions of the GRE;
5. Evidence of commitment to a career in the broad field of Adult Education and HRD;
6. Successful professional experience in the field of Adult Education and HRD;
7. Potential for leadership or research in the field, or both.

Program of Study

Doctoral 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 above.  A total of 101 semester hours must include all coursework leading to the degree.

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.

Elective Core (9-15)

Elective Core varies according to the participants’ background and professional goals.

Research and Statistics (12)

Prospectus and Dissertation (24)

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 of the community college. 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.

Admission Requirements

The requirements for admission consist of a master’s degree from an accredited university; combined quantitative and verbal scores of 1000 on the GRE; a score of the 50th percentile or higher on the appropriate subject test of the GRE; a 3.25 GPA on all post-baccalaureate work, a departmental interview, and acceptance by the department of the instructional field.

Admission Requirements

Applicants to the program must submit the following records and documents:

1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed Application for Graduate Admission.

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: (20)

EDH 7065 Higher Education: Philosophical and Historical Perspectives 3

EDH 7204 Higher Education: Community College 3

EDH 7307 Higher Education: Instructional Methods 4

EDH 7225 Higher Education: Developmental Programs 3

Additional courses in Education that will enhance the student’s instructional abilities and skills.

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.

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 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.

Previous graduate course work, including work completed as part of a master’s degree program may be applied toward the doctoral program requirements.

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 per semester during the time that the dissertation is being completed.

Curriculum and Instruction

Admission Requirements
Criteria for admission to the Doctoral Program include the following:

1. A master’s degree from an accredited institution.
2. A satisfactory grade point average (at least 3.25) in all prior graduate work.
3. A satisfactory grade point average (at least 3.0) in the last 60 semester hours of undergraduate work.
4. A combined score of 1000 (verbal and quantitative) on the Graduate Record Examination (GRE).
5. In the case of foreign students, a TOEFL score of at least 500 and a score of at least 470 on the verbal portion of the GRE.
6. Career goals in professional education consistent with the objectives of a doctoral program.
7. Appropriate prior work experience.
8. A personal interview with a committee of program faculty.

Applicants to the program must submit the following records and documents:

1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation to support the application for admission.
4. A current resume.
5. A statement that sets forth the applicant’s career goals and relates those goals to the completion of the doctoral program.
6. A completed Application for Graduate Admission.

Final decisions on admission are made by the Faculty Admissions Committee. Having met the minimum criteria stated above does not assure admission to the program. Additional information can be obtained from the Coordinator of Doctoral Programs, DM 255.

Core Courses: (15)
EDG 7222 Curriculum: Theory and Research 3
EDG 7362 Instruction: Theory and Research 3
EDG 7666 Seminar in Curriculum 3
EDF 7934 Seminar in Social Foundations of Education 3
EDF 6211 Psychological Foundations of Education 3

Specialty Area: (36)
The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, music education, reading education, science education, and social studies education.

Cognate Area: (18)
The cognate area requires a minimum of 18 semester hours of 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.

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 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 per semester during the time that the dissertation is being completed.

EDG 7980 Doctoral Dissertation 6-9

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 these roles are principals, supervisors, directors, and superintendents of public and independent schools; state, federal, and international agency administrators and staff; and research and development personnel. 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.

Admission Requirements
The minimum admission requirements are as follows:

1. A master’s degree from an accredited institution.
2. A 3.0 GPA in the last 60 hours of undergraduate work.
3. A 3.25 GPA in prior graduate work.
4. A combined score of 1000 on the GRE (verbal and quantitative).
5. Evidence of three years or more of successful and appropriate professional experience.
6. In the case of a foreign student, a TOEFL score of at least 500 and a score of at least 470 on the verbal portion of the GRE.
7. An interview with program faculty that utilizes targeted selection methods.
8. Recommendation by the program faculty.

Applicants to the program must submit the following records and documents:
1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation to support the application for admission.
4. A current resume.
5. A statement that sets forth the applicant's career goals and relates those goals to the completion of the doctoral program.
6. A completed Application for Graduate Admission.

Final decisions on admission are made by the Faculty Admissions Committee. Having met the minimum criteria stated above does not assure admission to the program.

Additional information can be obtained from the Coordinator of Doctoral Programs, DM 255.

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
Guided Electives in Educational Administration and Supervision 21
Minor/Cognate Area 12
Research and Statistics courses 15
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 or applied research in the field, or both, to organize the findings, and to report them in a literate, logical, and compelling fashion. The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken per semester during the time that the dissertation is being completed.

More specific information concerning the doctoral program is available from faculty members in the program area.

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:
EDF 5481 Analysis and Application of Educational Research 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3
STA 6166 Statistical Methods in Research 3

One of the following:
EDF 6403C Quantitative Foundations of Educational Research 3
EDF 6475 Qualitative Foundations of Educational Research 3

Professional Certificate Program in 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 5925 Workshop in Adult Education and Human Resource Development 1-6
ADE 5385 Adult Teaching and Learning 3
ADE 5180 Organizational and Community Processes in AE/HRD 3
ADE 5383 Development of Adult Education and HRD Programs II 3
ADE 5935 Special Topics in Adult Education and Human Resource Development 1
ADE 6930 Seminar in Adult Education and Human Resource Development 1-3

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.

Professional Certificate Program in 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)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>3</td>
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<td>EDA 6195</td>
<td>Communication in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>School Law</td>
<td>3</td>
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<td>EDA 6242</td>
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<td>Microcomputer Applications for Administerors</td>
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<td>The Principalship</td>
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</tr>
<tr>
<td>EDS 6115</td>
<td>School Personnel Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Elective 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 Barbeta, Assistant Professor, Emotionally Handicapped**

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

**March Gavilan, Associate Professor, Educational Psychology/Bilingual Education**

**Daniel A. Kennedy, Associate Professor/School Counseling, Educational Psychology**

**Philip J. Lazorus, Associate Professor, School Psychology, Educational Psychology**

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

**David E. Nathanson, Professor, Gifted Education and Mental Retardation**

**Howard Rosenburg, Associate Professor, Mental Retardation**

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

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

**Judith Walker, Assistant Professor, Counselor Education, Educational Psychology**

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

**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 for all programs preparing school personnel.

**Master of Science**

- Community Mental Health Counseling
- School Counseling
- Special Education
- Varying Exceptionalities (Modified MS)

**Educational Specialist**

- School Psychology

**Doctor of Education**

- Exceptional Student Education

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**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 GRE scores, undergraduate grade point average during junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 and/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.

GRE scores must 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 four years from the date of initial enrollment to complete program requirements. Periods of non-
continuous enrollment do not count against the four 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.

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)

First Year: (27)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6700</td>
<td>Professional Problems in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5400</td>
<td>Introduction to Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6513</td>
<td>Human Interaction I: Group Process and Social Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6410</td>
<td>Behavioral and Cognitive Modification Techniques in Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6514</td>
<td>Human Interaction II</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6411</td>
<td>Advanced Counseling and Consultation: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6200</td>
<td>Appraisal and Measurement in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5350</td>
<td>Educational-Vocational Counseling</td>
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Second Year: (33)

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MHS 6630</td>
<td>Program Evaluation in Counseling &amp; School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6800</td>
<td>Advanced Practicum in Counseling and Consultation</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6820</td>
<td>Supervised Field Experience Counseling</td>
<td>1-10</td>
</tr>
<tr>
<td>MHS 6629</td>
<td>Organizational Consultation: Human Interaction III</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6930</td>
<td>Special Topics in Counseling and School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6428</td>
<td>Counseling the Culturally Different</td>
<td>3</td>
</tr>
<tr>
<td>Advised Electives</td>
<td>Students should consult with program advisor regarding courses required by the Department of Professional Regulation for certification eligibility as a Mental Health Counselor.</td>
<td>8</td>
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</table>

School Counseling

Required Program: (60)

First Year: (27)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>SDS 6700</td>
<td>Professional Problems in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5400</td>
<td>Introduction to Counseling</td>
<td>3</td>
</tr>
<tr>
<td>MHS 5460</td>
<td>Crisis Counseling and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6513</td>
<td>Human Interaction I: Group Process and Social Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6410</td>
<td>Behavioral and Cognitive Modification Techniques in Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6514</td>
<td>Human Interaction II</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6200</td>
<td>Appraisal and Measurement in Counseling</td>
<td>3</td>
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<tr>
<td>MHS 5350</td>
<td>Educational-Vocational Counseling</td>
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Second Year: (33)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MHS 6630</td>
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</tr>
<tr>
<td>MHS 6411</td>
<td>Advanced Counseling and Consultation: Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
SDS 6800 Advanced Practicum in Counseling and Education 3
SDS 6820 Supervised Field Experience in Counseling 1-10
MHS 6428 Counseling the Culturally Different 3
MHS 6930 Special Topics in Counseling and School Psychology 3
Advised Electives 8

**Educational Specialist in School Psychology**

The program in School Psychology requires a minimum of 68 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. Program descriptions may be obtained in the departmental office (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: (65)**

- **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
- **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
- **MHS 6678** Supervised Field Experience School Psychology 10
- **MHS 6930** Special Topics in Counseling and School Psychology 3

Electives 3-6

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 semester hours in psychology.

Former recipients of the MS degree in School Psychology at this institution may upgrade their degree to the Ed.S. by taking a sequence of courses approved by the department.

**Special Education**

The Department offers two master's degrees and one 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 Modified Master's Program tract 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 mildly handicapped children. In addition, several advanced theory and research courses are required.

The Doctoral Program in Exceptional Student Education prepares students for administrative, supervisory, research, or university faculty positions in Special Education.

Program applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 and/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. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements.
Master of Science Degree in Special Education

The major competencies of the diagnostic teacher are an extension and refinement of those developed by the student in the undergraduate special education curriculum: 
a) Assessment of learning styles through observation and ongoing monitoring techniques; b) application of behavioral approaches to the building, monitoring and remediation of classroom behavior; c) communication of information concerning children to others within the school and to parents, consultation skills; d) curriculum planning and innovation including staffings and IEP; e) supervision and leadership of special education units; f) consultation skills.

Professional Certificate programs are available in a number of specialized areas. Consult the program faculty for further information.

In-Field Majors

The following master’s program of study is for the student who holds an undergraduate degree in Special Education from Florida International University. A student with an undergraduate major in Special Education from another institution must plan a program with an academic advisor to ensure having the entry skills for this program.

Required Core For All Students: (18)

EDF 5481 Analysis and Application of Educational Research 3
EEX 6060 Curriculum Planning and Development 3
EEX 6211 Assessment of Learning and Behavior 3
EEX 6535 Seminar in Special Education: School Administration 3
EEX 6846 Seminar in Special Education: Issues and Trends 3
EEX 6912 Advanced Theory and Research in Special Education 3

Elective Clusters: Choose One (15)

GIFTED Education (Endorsement)

EEX 6417 Guidance and Counseling of Gifted 3
EGL 5051 Nature and Needs of Gifted 3
EGL 5232 Educational Procedures and

Curriculum for the Gifted 3
EEX 6306 Creativity and the Gifted 3
EEX 6405 Gifted Minority Students 3

Physically Impaired (Certification)

Profoundly Handicapped (Endorsement)

EEX 6236 Characteristics of Physically Impaired and Profoundly Handicapped Individuals 3
PHT 5515 Managing Therapy Services for Handicapped Children 3
OHT 6546 Resources and Skills Physically Impaired/Profoundly Handicapped 3
OHT 6547 Strategies for the Physically Impaired/Profoundly Handicapped 3
EEX 6863 Supervised Field Experience Physically Impaired/Profoundly Handicapped 3

Pre-Kindergarten Handicapped Education (Endorsement)

EEX 6213 Assessment of Infants and Preschoolers with Handicaps 3
EEX 6017 Typical and Atypical Child Development: Birth - 5 Years 3
EEX 6455 Program Development for the Preschool Handicapped Child: Birth - 5 Years 3
SOW 6361 Intervention Strategies in Marriage and the Family 3
EEX 6863 Supervised Field Experience/Early Childhood 3

Secondary Programs for the Mildly Handicapped

EEX 6065 Educational Program for Secondary Level Learning Disabled Students 3
RED 6336 Reading in Content Areas 3
SCE 6635 Teaching Science in Secondary Schools 3
SSE 6633 Teaching Social Studies in Secondary Schools 3

MAE 6636 Teaching Math in Secondary Schools 3

Reading for Exceptional Students

EEX 6250 Reading for Exceptional Students 3
RED 6747 Research in Reading 3
RED 6336 Reading in the Content Areas 3
RED 6546 Diagnosis of Reading Difficulties 3
RED 6515 Program of Remediation in Reading 3

ESOL

EDG 5707 Cultural and Cross Cultural Studies 3
TSL 5142 Curriculum Development in ESL 3
FLE 6938 Seminar in Second Language Testing 3
EEX 6863 Supervised Field Experience 3
TSL 5371 Special Methods of TESOL 3

Emotionally Disturbed

CCJ 5525 Seminar in Juvenile Delinquency 3
EGC 6936 Seminar in Pupil Personnel Services 3
SDS 5460 Crisis Counseling and Intervention 3
EED 6250 Ecological Intervention: Strategies for the Severely Emotionally Disturbed 3
EEX 6863 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 evalu-
Learning Disabilities
ELD 4230 Curriculum for the Learning Disabled 3
ELD 4240 Instructional Strategies for the Learning Disabled 3
EEX 6912 Advanced Theory and Research in Special Education 3
Emotionally Handicapped
EEX 4240 Nature and Need of the Mildly Handicapped 3
EEX 4611 Behavioral Approaches to Classroom Learning 3
EED Curriculum for the Emotionally Handicapped 3
EED 4243 Instructional Strategies for the Emotionally Handicapped 3

1 Students may enroll for undergraduate or graduate courses

Modified Master's Tract: Varying Exceptionalities
Students holding a baccalaureate degree outside of education may prepare for entry level into the field of special education by completing the Modified Master's Degree program, which includes the following course work.

Professional Studies
EDG 5414 General Teaching Methods 4
EDG 5707 Cultural and Cross-Cultural Studies 4
EDF 5717 History of American Education 3
EDF 6211 Educational Psychology 3

Special Education Certification Core
EEX 6051 Exceptional Children and Youth 3
EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills 3
EEX 6227 Diagnostic Teaching: Educational Assessment 3
MHS 6410 Applied Behavior Analysis in Counseling and Education 3
EEX 6771 Independent Living for the Handicapped 3

Doctor of Education in Exceptional Student Education

The Doctoral Program in Exceptional Student Education offers specialities in the following areas: Administration; Curriculum Development, and Research.

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.
Admission Requirements
Applicants to the program must submit the following records and documents:

1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed Application for Graduate Admission.

Students applying for the doctoral program must have a Master's degree GPA of at least 3.25, and a combined GRE score of at least 1000 on the verbal and quantitative sections, three years of appropriate experience with exceptional individuals, a Bachelor's or Master's Degree in Exceptional Student Education or related area.

Applicants who do not hold a Master's degree must have a GPA of at least 3.0 during the undergraduate junior and senior years (i.e. last 60 semester hours).

The program components are as follows:

**Special Education Core:** (15)
- EEX 6937 Seminars in Special Education 3
- EEX 6208 Medical Aspects of Exceptionality 3
- EEX 6301 Research in Cognitive Processes of Handicapped Students 3
- EEX 6203 Advanced Psycho-Social Aspects of Exceptionality 3
- EEX 6535 Seminar in Special Education School Administration 3

**Specialty Area:** (30)
Exceptional Student Education and/or related area (can be satisfied by appropriate master's level work).

**Cognate Area:** (15)
The cognate area requires a minimum of 15 semester hours in one of the following career thrusts: special education administrator; special education curriculum specialist; special education researcher.

Research and Statistics: (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 12
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 must be admitted to candidacy for the degree after the following conditions have been met:
- Residency requirement
- Successful completion of Candidacy Examination
- Recommendation of the Program of Study Committee
- 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 once the dissertation is started.

**Certificate and Add-On Certification Programs**

**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 Diagnostic Teaching: Acquisition of Language and Reading Skills 3
- EEX 6227 Diagnostic Teaching: 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
- EEX 6912 Advanced Theory and Research in Special Education 3

**Emotional Disturbance**
- EEX 6051 Exceptional Children and Youth 3
- EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills 3
- EEX 6227 Diagnostic Teaching: 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
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.

Entrance 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)

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<td>MHS 6200</td>
<td>Measurement and Appraisal In Counseling</td>
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<td>MHS 5340</td>
<td>Educational-Vocational Counseling</td>
<td>3</td>
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<tr>
<td>MHS 6410</td>
<td>Behavioral and Cognitive Modification Techniques in Counseling and Education</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6930</td>
<td>Special Topics In Counseling and School Psychology</td>
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<td>Psychological Foundations of Education</td>
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<td>Introduction to Counseling</td>
<td>3</td>
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<tr>
<td>MHS 6513</td>
<td>Human Interaction I: Group Process and Social Behavior or</td>
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<td>MHS 6510</td>
<td>Group Counseling</td>
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<td>MHS 6411</td>
<td>Advanced Counseling and Consultation: Theory and Practice</td>
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<td>SDS 6784</td>
<td>School Law for Student Service Workers</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6428</td>
<td>Counseling the Culturally Different</td>
<td>3</td>
</tr>
<tr>
<td>MHS 6800</td>
<td>Advanced Practica in Counseling and Consultation (Prerequisite: All the courses listed above)</td>
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Note: At the discretion of the program coordinator, a minimum of six semester hours of transfer credit may be used to satisfy these requirements.

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:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EGI 5051</td>
<td>Nature and Needs of the Gifted</td>
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<tr>
<td>EGI 5232</td>
<td>Educational Procedures and Curriculum for the Gifted</td>
<td>3</td>
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</tbody>
</table>

Elementary Education

Victoria J. Dimidjian, Professor and Chairperson, Early Childhood Education

John Bath, Assistant Professor, Science, Mathematics, and Elementary 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

Robert K. Gilbert, Associate Professor, Mathematics Education

Sharon W. Kossock, 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 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. Ritzi, Instructor, Art Education

Catherine Soll, Instructor, Elementary 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.

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
- Reading Education

Doctor of Education specialties in
- Curriculum and Instruction degree
- Early Childhood Education
Elementary Education
Reading Education.

All stated admission requirements are to be considered 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 or verbal and quantitative) on GRE. The 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
ECC 6261 Education Programs for Younger Children 3
RED 6305 Instruction in Early Childhood Reading 3
MAE 6305 Instruction in Elementary Mathematics 3

Specialization Courses
Courses to be selected from among Early Childhood course listings, in consultation and with approval of advisor. 18

Master of Science in Reading
The Master of Science in Reading develops competencies in diagnosis and remediation, teaching of reading 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 of 3.0 or 1000 (sum or verbal and quantitative) on the GRE; applicants are required to submit GRE scores. Applicants must have taught for a minimum of three years prior to receiving the Master's degree in Reading.

Standard Track
This master's track is designed to meet the needs of students interested in reading assessment and instruction. This track and the thesis track both lead to state certification.

Required Program: (21)
EDE 6205 Curriculum Design for Childhood Education 3
EDG 6250 Curriculum Development 3
EDF 5432 Measurement and Evaluation in Education 3
EDF 5481 Analysis and Application of Educational Research 3
RED 6155 Instruction in Reading 3
RED 6336 Reading in the Content Area 3
RED 6515 Programs of Remediation in Reading 3
RED 6546 Diagnosis of Reading Difficulty 3

Specialization Courses: (15)
Courses to be selected from among Reading or Language Arts course listings, in consultation and with approval of advisor.

EEX 5250 Reading for Exceptional Students 3
LAE 5415 Children's Literature 3
LAE 6355 Instruction in Language Arts 3
RED 5447 Analysis and Production of Reading Materials 3
RED 5448 Reading by Computer 3
RED 5911 Individual Study in Reading 3
RED 5925 Workshop in Reading Education 3
RED 6247 Organization and Supervision of Reading Programs 3
RED 6747 Research in Reading 3
RED 6805 Practicum in Reading 3
RED 6846 Clinical Process in Reading 3
RED 6931 Seminar in Reading Education 3
RED 6932 Special Topics in Reading 3

Thesis Track
This master's track is designed to meet the needs of students interested in pursuing independent research and provides a special foundation for doctoral degree program entrance. Admission requirements for this program are the same.
as for the regular Master's degree program.

Required Program: (33)

EDE 6205 Curriculum Design for Childhood Education 3
or
EDE 6250 Curriculum Development 3
EDF 5432 Measurement and Evaluation in Education 3
EDF 5481 Analysis and Application of Educational Research 3
RED 6155 Instruction in Early Childhood Reading 3
RED 6336 Reading in the Content Area 3
RED 6515 Programs of Remediation in Reading 3
RED 6546 Diagnosis of Reading Difficulty 3
RED 6747 Research in Reading 3
RED 6931 Seminar in Reading Education 3
RED 6971 Thesis in Reading Education 6

Specialization Course: (3)

Complete one reading or language arts course in consultation with advisor:

RED 5447 Analysis and Production of Reading Materials 3
RED 5448 Reading by Computer 3
RED 6247 Organization and Supervision of Reading Programs 3
RED 6805 Practicum in Reading 3
RED 6845 Clinical Procedures in Reading 3
RED 6932 Special Topics in Reading 3

Doctor of Education in Curriculum and Instruction

The Department offers Curriculum and Instruction doctoral specialties in Early Childhood Education, Elementary Education and Reading Education.

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

Admission Requirements

Criteria for admission to the Doctoral Program include the following:
1. A master's degree from an accredited institution.
2. A satisfactory grade point average (at least 3.25) in all prior graduate work.
3. A satisfactory grade point average (at least 3.0) in the last 60 semester hours of undergraduate work.
4. A combined score of 1000 (sum of verbal and quantitative) on the Graduate Record Examination (GRE).
5. In the case of foreign students, a TOEFL score of at least 500 and a score of at least 470 on the verbal portion of the GRE.
6. Career goals in professional education consistent with the objectives of a doctoral program.
7. Appropriate prior work experience.
8. A personal interview with a committee of program faculty. Applicants to the program must submit the following records and documents:
   1. Official transcript from all higher education institutions attended.
   2. Official copy of the GRE scores.
   3. Three letters of recommendation that support the application.
   4. A current resume.
   5. A statement of personal interest in the program.
   6. A completed Application for Graduate Admission.

Final decisions on admission are made by the Faculty Admissions Committee. Having met the minimum criteria stated above does not assure admission to the program. Additional information can be obtained from the Coordinator of Doctoral Programs, DM 255.

Core Courses: (15)

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

Specialty Area: (36)

The specialty areas are art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, music education, reading education, science education, and social studies education.

Cognate Area: (18)

The cognate area requires a minimum of 18 semester hours of course 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
or
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 per semester during the time that the dissertation is being completed.

EDG 7980  Doctoral Dissertation  2-4

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 1
Two courses chosen from language-related courses offered outside of the College of Education  6
1 Elective courses are chosen from an approved list in consultation with a Reading Program advisor.

Foundations: Urban, Multicultural, International Education

Erskine S. Dottin, Professor and Chairperson, Foundations of Education, Politics of Education
John A. Carpenter, Professor, Educational Foundations and International Development Education
Robert V. Farrell, Associate Professor, Educational Foundations, International Development Education
Rosa Castro Feinberg, Associate Professor, Educational Foundations, Bilingual Education/ESL
I. Ira Goldenberg, Professor and Dean, Educational Foundations
Chris Uber Grosse, Associate Professor, TESOL
E. Joseph Kaplan, Assistant Professor, Educational Foundations
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 and practice 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:
- Teaching English to Speakers of Other Languages (TESOL)
- Urban Education
- TESOL

The Department also coordinates the Foundations of Education courses and the Professional Education Core. It directs the Dade County School/FIU Urban Education Program, which is comprised of the Urban Education Certificate Program and the Master's Degree in Urban 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 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 coursework for the bachelor's degree; or c) have a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or hold a master's degree from an accredited university or college; in any case the student must present a GRE score. In the case of foreign students whose first language is other than English, a score of 500 on the TOEFL examination is also required. Admission to the program is contingent upon departmental approval.

Degree Requirements
The Master of Science degree consists of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. A maximum of six semester hours of graduate level courses taken as an undergraduate may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program.

This program does not meet requirements for initial teacher certification by the Florida Department of Education.

Prerequisite
Introduction to Linguistics is the prerequisite to study in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018.

Required Program: (30)

Professional Education: (12)
All students will be required to complete 12 semester hours in the College of Education:
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.

Required Courses
- EDE 5941 Practicum I in Urban Schools Education 5
- EDE 5942 Practicum II in Urban Schools Education 5
- EDE 5943 Practicum III in Urban Schools Education 5
- EDF 5481 Analysis and Application of Education Research 3
- EDE 5267 Education of the Child in Urban Society 3
- EDF 6211 Psychological Foundations of Education 3
- EDE 6488 Research in Elementary Education 3

Guided Electives
As approved by the student's advisor 6

Add-on Certification

Add-on Certification in ESOL

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
- TSL 5938 Principles in ESOL Testing 3
- EDF 5707 Cultural and Cross-Cultural Studies 3
- TSL 5371 Special Methods of TESOL 3
- TSL 5142 Curriculum Development in ESOL 3
- TSL 5245 Developing ESOL Language and Literacy 3
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 the 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 8

Internship Requirement
PET 6940 Internship in Exercise Physiology 3

Electives^2 (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.

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: (30-31)

Required Core: (12)
EDF 5481 Educational Research 3
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

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:

Therapeutic Recreation Track

LEI 5716 Program Planning in Therapeutic Recreation 3
LEI 5719 Client Assessment, Evaluation, and Documentation 3
LEI 6725 Administrative Aspects of Therapeutic Recreation 3
LEI 5907 Individual Study in Parks and Recreation Management 3

Advised Electives 7

Students not currently certified as Therapeutic Recreation Specialists must also register for the following course as part of their overall program:

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 additional preparation for teachers of physical education. Applicants for admission 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
LEI 5510 Program Administration in Parks, Recreation, and Sports 3

Advised Electives: (6-9)
Six to nine hours of advised electives and directed study.

Sport Management
The purpose of this track is to provide an option for persons seeking a master's degree in an allied (non-teaching) career in physical education. This degree program would primarily be for persons who do not presently hold Florida teaching certification credentials. Consequently, completion of this degree would not provide such teacher certification for the degree recipients. Examples of potential student clientele would include all foreign and American college graduates with bachelor's degrees in physical education, sports science, business, recreation, and other related areas.

Admission Requirements
Students must hold a bachelor's degree from an accredited university. The published university requirements for admission into the master's degree programs must be met. Students who do not have an undergraduate major in physical education or a related area are responsible for meeting the prerequisites for any course listed in the program's curriculum. A program advisor must be consulted regarding complete degree requirements.

Required Program: (33)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4510</td>
<td>Evaluation in Physical Education1</td>
<td>3</td>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in the Secondary School2</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6-12</td>
</tr>
</tbody>
</table>

1 Not required of students holding K-8 Certification or students who have completed an equivalent undergraduate course.
2 Students who have already met the Reading Requirement as undergraduates or through approved inservice education may substitute an elective for this course. The course is not required of students holding K-8 certification in Physical Education.

Middle, Secondary, and Vocational Education

A. Dean Hauenstein, Professor and Chairperson, Technology Education, and Vocational Education

Amrilda Badia, Associate Professor, Modern Languages Education

David Y. Chang, Assistant 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, Vocational Industrial Education

Luis A. Martinez-Perez, Associate Professor, Science Education

C. Edwin McClintock, Professor, Mathematics Education and Computer Education

Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education

George E. O'Brien, Associate Professor, Science Education

Clem Pennington, Associate Professor, Art Education

Janice R. Sandiford, Associate Professor, Health Occupations Education, Computer Education, Vocational Education

Robert Shostak, Professor, Computer 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.

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)

All stated admission requirements are to be considered minimums. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Master of Science Degree Programs

Art Education

Required Program: (36)

Education, Including Art Education: (15)

EDF 5481 Analysis and Application of Educational Research 3
ARE 6140 Curriculum and Instruction in Art 3
ARE 6262 Organization and Coordination of School and Community Art Programs 3
ARE 6746 Seminar in Art Education: Contemporary Issues and Research 3

Select one of the following:

EDF 6205 Curriculum Design for Childhood Education 3
or
ESE 6215 Secondary School Teaching Field
or
EEX 6051 Exceptional Children and Youth
or
EDS 6050 Supervision in Education
or
EDF 5955 Field Study Abroad

Fine Arts

Art History 3
Studio Art (Three semester hours credit for each studio course) 12
ARE 4848 Concepts in Art Education 3
ARE 6925-29 Workshop in Art Education 3

English Education

Required Program: (30)

EDF 5481 Analysis and Application of Educational Research 3
LAE 6339 Teaching English in the Secondary School 3
EDF 6215 Secondary School Curriculum 3
LAE 6935 Seminar in English Education 3

1Prerequisite: Undergraduate English methods course.
2Permission of instructor required.

Teaching Field: English 15
Advisor Approved Electives 3

Mathematics Education

Required Program: (33)

EDF 5481 Analysis and Application of Educational Research 3
MAE 6336 Teaching Mathematics in the Secondary School 3
MAE 6899 Seminar in Mathematics Education 3
EDF 6215 Secondary School Curriculum 3

Teaching Field: Mathematics 12
Electives: In Education or Mathematics, or both 9
1Permission of instructor; undergraduate secondary mathematics methods, and mastery of programming language beyond BASIC and graduate level mathematics coursework required.

Modern Languages Education

Prerequisites

One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.

Applicants for Admission must hold or qualify for a Florida Teaching Certificate in the area selected, must satisfy requirements for scholastic aptitude as determined by the Graduate Admissions Standards, and must show evidence of a satisfactory record in the teaching field.

To be admitted into the Master’s Degree program, the student must hold a bachelor’s degree from an accredited university or college; have a 3.0 average or higher in all junior and senior year course work for the bachelor’s Degree; or have a combined score (verbal and quantitative) of 1000 or higher on the graduate record examination; or hold a master’s degree from an accredited university or college. In any case, the student must present a GRE score: achieve a score of 220 on the Test of Spoken English; and in the case of international students, whose first language is other than English, a score of 500 on the TOEFL examination is also required.

Degree Requirements

The Master of Science Degree will consist 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. Also, a maximum of six semester hours of upper division undergraduate courses may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program. This program does not include requirements for initial teacher certification by the State of Florida Department of Education.

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
EDF 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 experi-
ence 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.

Graduation Requirements
To receive the Master of Science Degree with a sub-specialty in Second Language Education, Modern Language track, the student must complete the required 30 hours of coursework with a "B" average or higher.

Music Education
Required Program: (30)
ESE 6215 Secondary School Curriculum 3
or
EDE 6205 Curriculum Design for Childhood Education 3
EDF 5481 Analysis and Application of Educational Research 3
MUE 6345 The Methodology and Analysis of Music Teaching 3
MUE 6938 Seminar in Music Education 3
MUE 6815 The Acoustical and Psychological Foundations of Music 3
MUT 5381 Arranging 3
MUG 5105 Advanced Conducting 1
Advisor Approved Electives 11

Science Education
Required Program: (33)
EDF 5481 Analysis and Application of Educational Research 3
ESE 6215 Secondary School Curriculum 3
SCE 6635 Teaching Science in the Secondary School 3
SCE 6933 Seminar in Science Education 3
Teaching Field: Biology or chemistry or physics or courses from the following areas with approval of advisor: biology, chemistry, physics, geology, and environmental sciences. (For Junior High Science Teachers).
Advisor Approved Electives 9

Social Studies Education
Required Program: (33 )
SSE 6633 Teaching Social Studies in the Secondary School 3
ESE 6215 Secondary School Curriculum 3
EDF 5481 Analysis and Application of Educational Research 3
SSE 6939 Seminar in Social Studies Education 3
Teaching Field: Social Studies, Social Science, History 12
Advisor Approved Electives 9

Master of Science: Alternate Track
The Alternate Track modifies the existing master's degree programs to accommodate candidates with a baccalaureate degree appropriate to the certification area but without certification, who are seeking entry into the teaching profession. This modified 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
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 4
Special Teaching Lab: Area 3-6
Student Teaching (Practicum) 6

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
### Graduate Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EVT 6930</td>
<td>Seminar in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6061</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6530</td>
<td>The Administration of the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6050</td>
<td>Supervision and Staff Development</td>
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</tr>
<tr>
<td>EDG 6250</td>
<td>Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
<td>3</td>
</tr>
<tr>
<td>EVT 6946</td>
<td>Supervised Field Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

The candidate may select a course (or courses) that will increase administrative and supervisory competencies. 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)**

<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EVT 5769</td>
<td>Evaluation in Vocational Education</td>
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<td>EVT 6760</td>
<td>Research in Vocational Education</td>
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<tr>
<td>EVT 6930</td>
<td>Seminar in Vocational Education</td>
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<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
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**Area of Professional Emphasis: (9)**

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<th>Course Code</th>
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<tbody>
<tr>
<td>EVT 5315</td>
<td>Improvement of Teaching Strategies in Health</td>
<td></td>
</tr>
<tr>
<td>EVT 5317</td>
<td>Occupational Analysis in Health</td>
<td></td>
</tr>
</tbody>
</table>

**Home Economics Education**

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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HEE 5335</td>
<td>Trends and Issues in Home Economics Education</td>
<td>3</td>
</tr>
<tr>
<td>HEE 6156</td>
<td>Teaching Home Economics Education</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5180</td>
<td>Organizational and Community Programs in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
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<tr>
<td>HEE 6915</td>
<td>Research in Home Economics Education</td>
<td>3</td>
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<tr>
<td>HEE 6937</td>
<td>Seminar in Home Economics Education</td>
<td>3</td>
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</table>

**Area of Professional Emphasis**

With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies needed. Electives 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 5650</td>
<td>Trends and Issues in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 6760</td>
<td>Research in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 6930</td>
<td>Seminar in Vocational Education</td>
<td>3</td>
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</tbody>
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**Area of Professional Emphasis (9)**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EIA 5811</td>
<td>Equipment and Facility Planning</td>
<td>3</td>
</tr>
<tr>
<td>EIA 6683</td>
<td>Instructional Projects Development</td>
<td>3</td>
</tr>
<tr>
<td>EIA 6931</td>
<td>Analysis of Technology Education</td>
<td>3</td>
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**Electives: (3-6)**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
<td>3</td>
</tr>
</tbody>
</table>

**Vocational Home Economics Education**

**Required Program: (30)**

**Required Core: (15-18)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HEE 5335</td>
<td>Trends and Issues in Home Economics Education</td>
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<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>HEE 6156</td>
<td>Teaching Home Economics Education</td>
<td>3</td>
</tr>
<tr>
<td>HEE 6915</td>
<td>Research in Home Economics Education</td>
<td>3</td>
</tr>
<tr>
<td>HEE 6937</td>
<td>Seminar in Home Economics Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area of Professional Emphasis**

With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies needed. Electives The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.
Doctoral Programs

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.

Curriculum and Instruction


Admission Requirements

Criteria for admission to the Doctoral Program include the following:

1. A master's degree from an accredited institution.
2. A satisfactory grade point average (at least 3.25) in all prior graduate work.
3. A satisfactory grade point average (at least 3.0) in the last 60 semester hours of undergraduate work.
4. A combined score of 1000 (verbal and quantitative) on the Graduate Record Examination (GRE).
5. In the case of foreign students, a TOEFL score of at least 500 and a score of at least 470 on the verbal portion of the GRE.
6. Career goals in professional education consistent with the objectives of a doctoral program.
7. Appropriate prior work experience.
8. A personal interview with a committee of program faculty.

Applicants to the program must submit the following records and documents:

1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation that support the application.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed Application for Graduate Admission.

Final decisions on admission are made by the Faculty Admissions Committee. Having met the minimum criteria stated above does not assure admission to the program.

Additional information can be obtained from the Coordinator of Doctoral Programs, DM 255.

Core Courses (15):

- 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

Specialty Area: (36)

The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, music education, reading education, science education, and social studies education.

Cognate Area: (18)

The cognate area requires a minimum of 18 semester hours of 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.

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 School and to the Dean of Graduate Studies.

Dissertation

The student is responsible for 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation within five years from the date of advance
Admission Requirements
Applicants to the program must submit the following records and documents:
1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed application for Graduate Admission.

Vocational and Technical Education Leadership
The doctoral track in Vocational and Technical Education Leadership is designed to promote the preparation of highly competent professionals in vocational and technical education.

It is a track within the Adult Education and Human Resource Development doctoral program. Although each curriculum has its own specific objectives, the goals shared by these programs are the improvement of educational practice and stimulation of personal and professional growth toward excellence.

The Doctor of Education degree is conferred on the basis of high scholarship and skill in the application of knowledge from theory and research findings to practical vocational and technical education problems.

Applications for admission to the doctoral program are invited from individuals who are highly motivated and intellectually capable of meeting the challenges of a rigorous doctoral degree program.

Admission Requirements
Criteria for admission to the Doctoral Program include the following:
1. A master's degree from an accredited institution.
2. A satisfactory grade point average (at least 3.25) in all prior graduate work.
3. A satisfactory grade point average (at least 3.0) in the last 60 semester hours of undergraduate work.
4. A combined score of 1000 (verbal and quantitative) on the Graduate Record Examination (GRE).
5. In the case of foreign students, a TOEFL score of at least 500 and a score of at least 470 on the verbal portion of the GRE.
6. Career goals in professional education consistent with the objectives of a doctoral program.
7. Appropriate prior work experience.
8. A personal interview with a committee of program faculty.
Applicants to the program must submit the following records and documents:
1. Official transcript from all higher education institutions attended.
2. Official copy of the GRE scores.
3. Three letters of recommendation that support the application.
4. A current resume.
5. A statement of personal interest in the program.
6. A completed application for Graduate Admission.
Final decisions on admission are made by the Faculty Admissions Committee. Having met the minimum criteria stated above does not assure admission to the program. Additional information can be obtained from the Coordinator of Doctoral Programs, DM 255.

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 Core
  - Educational Leadership (12)

- Generic Core
  - 30-36

- Vocational and Technical Education Leadership
  - 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 per semester during the time that the dissertation is being completed.

1*Common AE & HRD and V & TEL requirement
2*May include up to 36 semester hours of graduate credit from an approved Masters degree program and transfer credit.
3*May include AE & HRD courses.

Certificate and Add-on Certification Programs

Graduate Professional Certificate - Health Occupations Education

The overall purpose of the professional certificate program in health occupations education is to enhance the development of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing education, upgrading or redirection needs of health occupations 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

or
Course Descriptions

Definition of Prefixes
ADE - Adult Education; ARE - Art Education; BTE - Business Teacher Education; CGS - Computer Applications; CHD - Child Development; COA - Consumer Affairs; DAA - Dance Activities; DAE - Dance Education; EDA - Education: Educational Leadership; EDE - Education: Elementary; EDF - Education: Foundations; EDG - Education: General; EDH - Education - Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC - Education: Early Childhood; EED - Education: Emotional Disorders; EEX - Education: Exceptional Child, Core Competencies; EGI - Education: Exceptional Child, Gifted; EIA - Education: Technology; ELD - Education: Specific Learning Disabilities; EME - Education: Technology and Media; EMR - Education: Mental Retardation; ESE - Education Secondary; ETE - Engineering Technology: Electrical; ETM - Engineering Technology: Mechanical; EVT - Education: Vocational/Technical; FAD - Family Development; FLE - Foreign Language Education; HEE - Home Economics Education; HHD - Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment; HOE - Home Economics; HSC - Health Sciences; LAE - Language Arts and English Education; LEI - Leisure; MAE - Mathematics Education; MHS - Mental Health Services; MUE - Music Education; PEL - Physical Education; PEM - Physical Education Activities; PEO - Physical Education Activities; PEP - Physical Education Activities; PEG - Physical Education Professional Water; PET - Physical Education Therapy; RED - Reading Education; SCE - Science Education; SDS - Student Development Services; SPA - Speech Pathology and Audiology; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, program, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs.
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 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 5383.

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 edu-
cational 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 or Human Resources Development (3 or 6). Required in masters program in HRD. Internship in organizations according to student's needs & interests. Supervisory visits & conferences are periodically conducted. Prerequisites: ADE 6180, ADE 6260, ADE 6286 or permission of instructor.

ADE 7475 Comparative Systems, Strategies and Materials for Adult Education/HRD (3). A review and critique of the prevailing inventory of packaged systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations. Prerequisites: ADE 6180/ADE 5383.

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 institutionalization 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. Colloquia present 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 art. Individual imaging projects, lesson plans, readings and presentation 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 review 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 review 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 recent research in Child Development. Prerequisites: CHD 3210, 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.

EDA 6013 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 a field of both study and practice. Emphasis is placed on the social, economic, and political context of contemporary educational administration; the organization, governance, and control of American education; and Educational Administration/Leadership as a profession and career.

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. Prerequisites: 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 administrators and supervisors to participate in a problem solving workshop.

EDA 6928 Special Topics: School Improvement (1-6). Offers an opportunity for experienced school personnel supervisors to participate in a problem-oriented 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. Prerequisites: Permission of program leader and instructor.

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formulation 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 that includes special topics in law, policy and research. 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. Prerequisites: 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 3723, EDG 3321, EDG 3322.

EDE 5905 Directed Study in Elementary Education (1-3). Available to undergraduate and graduate
elementary majors. Provides for individual investigation in the area of elementary education. Permission of instructor required.

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 5941 Practicum I in Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate and admitted to Urban Education program.

EDE 5942 Practicum II in Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDE 5943 Practicum III in Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

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 in the school.

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.

EDE 6971 Thesis in Elementary Education (6). Elective in masters program in elementary education. Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDE 6488, and consent of instructor. Corequisite: EDE 6930.

EDE 7935 Doctoral Seminar in Elementary Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to elementary education. Prerequisites: EDE 6488 and EDE 6930.

EDE 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 system 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.

EDE 5517 History of American Education (3). An examination of different historical perspectives in the development of American education. Focus on differing interpretations of school and society relationships.

EDE 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.

EDE 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.

EDE 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.

EDE 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.

EDE 5905 Directed Study in Education (1-3). The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairperson of the Division and the approval of the instructor.

EDE 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

EDE 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.

EDE 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.

EDE 6215 Application of Learning Theory to Instruction (3). Analysis of selected learning theories and application of these theories to an instructional system.

EDE 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: EDE 6211 or equivalent.

EDE 6403 Quantitative Foundations of Educational Research (3). Integrative coverage of fundamentals in the general field of educational research with emphasis on utilizing
computers for data analysis. Prerequisites: EDF 5481 and EDF 6486, and STA 6166.

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 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 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.

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 (4). 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 5707 Cultural and Cross-Cultural Studies (3). Overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, interactional 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 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 student's 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 7392 Instruction: Theory and Research (3). Theories of instruction and research in the learning process, creativity, the thought process, human relations and group dynamics and other fields related to the development of instructional
theory and practice. Prerequisites: EDC 6250 or Psychology of Learning.

EDG 7391 Seminar in Instructional Leadership (3). Review theories of change and organizational development applicable to education. Discussion of rules and functions of supervisors, curriculum developers and other leaders in the instructional process. Prerequisites: EDS 6115 or EDS 6050.

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 candidate.

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 specific 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 knowledge of and skill in the use of 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 completion of all other doctoral requirements. Course may be repeated as needed.

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 undergrad and grad students studying early childhood education. Provides for individual investigation in the area of early childhood education. Permission of instructor required.

EEC 5926 Special Topics In Early Childhood Education (3). Available to undergrad 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 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 6271 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool, handicapped and at-risk children. Prerequisite: EEX 6017, EEX 3010, or EEX 6051 recommended.

EEC 6455 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool, handicapped and at-risk children. Prerequisite: EEX 6017, EEX 3010 or EEX 6051 recommended.


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.

EEX 6017 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisite: EEX 3010 or EEX 6051.

EEX 6051 Exceptional Children and Youth (3). Significant concepts in relation to the educational needs of exceptional children and youth.

EEX 6060 Curriculum Planning and Development in Special Education (3). Historical and theoretical bases for designing, developing, adapting and evaluating curricula for individuals with disabilities. Prerequisites: EEX 5481, EEX 6912.

EEX 6065 Educational Programs for Secondary Level Exceptional Students (3). Considers philosophies and models of secondary programs for students with mild handicaps. Emphasis is given to instructional methods in skills and content areas and identification of transition resources. Prerequisites: MAE 6336, RED 6336, SCE 6635, SSE 6633.

EEX 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 Psychosocial/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 3202 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 staffings. 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 EEX 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 use of standardized tests and 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 6213.

EEX 6535 Seminar in Special Education School Administration (3). This course is designed to provide graduate students an opportunity to study current issues and research in Special Education Administration. The course will focus on: the scope and nature of special education and related services; administrative roles in the organization and operation of special education programs; and management issues in the delivery of effective programs.

EEX 6771/HME 5255 Independent Living for the Handicapped (3). Explorations of 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 learning 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. Prerequisite: Completion of special education core and research and statistics component.

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 Creativity and the 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 Gifted Minority Students (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.

EIA 5811 Equipment and Facilities Planning (3). Utilization of research, design, and technical knowledge and skill to plan and update technology education laboratory facilities and equipment. Prerequisite: Graduate standing.

EIA 5905 Directed Study in Technology Education (1-3). Identification, research, and reporting on problems of interest to the student in technology education. Subject to approval of program advisor.

EIA 5925L Special Topics in Technology Education (3). Selected topics related to instructional and technical areas.

EIA 6683 Instructional Projects Development in Technology Education (3). Knowledge and skill in developing new and innovative instructional projects for use in technology education programs, grades 6-12.

EIA 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology education at the national, state, and local levels.

ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities (3). Major concepts in the area of specific learning disability, and skills in the application of these concepts to education. Prerequisite: ELD 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 6626 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.

EVT 5078 Technical Education in American Society (3). Knowledge of the basic role and current status of technical education in an industrial democracy. Designed for students interested in post-secondary education.

EVT 5168 Curriculum Development in Vocational Education (3). Knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization.

EVT 5255 Cooperative Vocational Education Programs (3). Knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education.

EVT 5265 Supervision and Coordination of Vocational Education Programs (3). Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals.

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). First in series of graduate courses designed to prepare qualified health professionals holding bachelor's degrees with professional education skills necessary to become competent teachers. Approved for "special methods of teaching health occupations education."

EVT 5317 Occupational Analyses in Health Occupations and Nursing
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.

EVT 7964 Comprehensive Doctoral Examination, Vocational and Technical Education Leadership (0). Comprehensive Doctoral Examination in Vocational and Technical Education Leadership. Prerequisite: Permission of major professor.


EVT 7985 Dissertation Defense; Vocational and Technical Education Leadership (0). Defense of Dissertation. Prerequisite: Defense of major professor and EVT 7980.

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current trends and issues affecting the family unit.

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the effective 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 will also 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 (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Master's Track Program and completion of prerequisites 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: UN 3010 or ENG 3500 or equivalent.

FLE 6925 Special Topics in Second Language Education (1-3)(ARR). Production and application of materials and techniques in second language education in a laboratory or field setting.

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. Lan-
guage 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's 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 5456 and HSC 5456.

LAE 5415 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. Corequisite: 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, retardates, 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 Therapies/Therapeutic Recreation Administrator.


LEI 6727 Disabling Conditions in Therapeutic Activity Services Administration (3). In-depth review of disabling conditions for the development of in-service training in recreational therapy and adapted activity services.

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 (3). 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 materials for teaching mathematics in the middle and senior high school, and development of teaching skills. Prerequisites: Undergraduate secondary math methods and permission of instructor.


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 modification, self-instruction 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 5400 or equivalent.

MHS 6428 Counseling the Culturally Different (3). Concepts and skills involved 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 related to group processes. Students will participate in small to 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 6519C Principles of Design in Group Intervention: Role of the Consultant (3). Focuses on role of leader or trainer in complex training 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 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 (10). Demonstration of the full range of competencies learned throughout the program in counseling. Internship placements include a variety of field settings.

MHS 6910 Directed Study in Counseling and School Psychology (1-6). Competencies contracted for between a student and an instructor in accordance with the student's individual needs.

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 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.

PEP 5115 Fitness Instruction (3). The course prepares the student for the American College of Sports Medicine's Fitness Instructor Certification examination. Prerequisite: PET 3351.

PEP 5116 Exercise Specialist (3). The course prepares the student for the American College of Sports Medicine's Exercise Specialist Certification Examination. Prerequisites: PET 3351 and PET 5387.

PEP 5117 Fitness for Older Adults (3). The course explores the value of physical activity for improving the physical and mental well being of older adults. Emphasis is placed on exercise prescription and supervision of programs for those working with older adults. Prerequisite: PET 3351.

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 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 3360.

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 5351, 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 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 materials, 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. Prerequisite: 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 Special Topics In Reading (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 an 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 to 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 master's program in early childhood 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 6315 Instruction in Elementary Science (3). Elective in master's program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. Prerequisite: SCE 4310 or permission of instructor.

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 7165 Curriculum Development In Science Education (3). Analysis of theoretical basis of curriculum devel-
opment in Science Education Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486.


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 Counselling 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 6191L Psycho-Educational Assessment I: Lab (2). Practical skills in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191L.


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: Behavior (3). Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisites: SPS 6191L, SPS 6192.

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting. Corequisites: SPS 6191L, 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 materials 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. Prerequisite: 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 content, 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 of 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
College of Education

Dean
I. Ira Goldenberg

Associate Dean for
Academic Affairs
Robert Vos

Associate Dean for
Student and Community
Services
M. A. Bilbao

Assistant Dean for
Budget and Grants Administration
Carmen Mendez

Chairpersons

Educational Leadership, and Policy Studies
Kingsley Banya

Educational Psychology and Special Education
Donald C. Smith

Health Physical Education and Recreation
Thomas Skaiko

Middle, Secondary, and Vocational Education
A. Dean Hauenstein

Elementary Education
Victoria J. Dimidjian

Foundations: Urban, Multicultural, International Education
Erskine S. Dottin

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
Marta Vazquez-Syms

Faculty

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Mendez, Carmen, MPA (Florida International University), Public Administration, and Assistant Dean for Budget and Grants Administration

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Miller, Lynne Ph.D. (University of Arizona), Assistant Professor, Reading and Language Arts, Elementary Education

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Shostak, Robert, Ph.D. (University of Connecticut), Professor, Computer Education, Middle, Secondary, and Vocational Education

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Zaragoza, Nina, Ph.D., (University of Miami), Early Childhood Special Education, Educational Psychology and Special Education
College of Engineering and Design

Gordon R. Hopkins, Dean
Gustavo A. Rolig, Associate Dean
Iraj E. Majzub, 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 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 growing and that the proper application of technology is critical to meeting current and emerging human needs.

The College is actively engaged in a number of special programs as a service to the community and the University. One of these activities is the International Association for Housing Science, an organization with membership from more than 20 nations, dedicated to improving housing technology and production, as well as studying the inter-disciplinary aspects of housing.

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. Areas of study 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, Industrial 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 advanced 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.

Accreditation

The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) accredits college engineering programs on a nationwide basis. Accreditation is important in many areas of the engineering profession. Students wishing more information about accreditation should consult their departmental office or the Office of the Dean. The following engineering baccalaureate programs are ABET accredited: Civil, Electrical, Industrial and Mechanical.

Academic Support Services

The area of academic support services is responsible for the coordination of academic advising and student service activities for the college. This area is also responsible for keeping students informed on educational opportunities such as scholarships, tuition waivers, internships, co-op studies and campus resources; serves as a liaison between the academic departments and the student support services university wide; facilitates the registration process in order to make sure that the students adhere to the colleges guidelines.

A student who has been accepted to a degree program in the College must consult an advisor prior to the first class enrollment. An advisor may be assigned by contacting the Chairperson of the Department in which an academic major is desired. Continued contact (at least once per semester) with the advisor is urged to review progress and select courses for each succeeding semester. Such contact is required until an approved program of study is completed.

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-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 the University Financial Services.

Academic Appeal Procedures

Academic Appeals not covered under the Academic Misconduct Policy shall be processed in the following manner.
Step 1. The student and faculty member will meet informally in an attempt to resolve the problem within 45 days of the alleged occurrence.

Step 2. If the informal meeting does not result in an acceptable remedy, the student can appeal in writing to the Department/Divisional Chairperson within ten days of the informal meeting. The written appeal should include the nature and conditions of the problem and a summary of the informal meeting with the faculty member involved.

Within ten days of the receipt of the written appeal, the Chairperson, student, and faculty member will meet in an attempt to resolve the problem.

Step 3. If the results from the meeting in Step 2 is not acceptable, the student can appeal in writing to the Dean of the College within ten days. The written appeal should include the nature and conditions of the problem and a summary of the meetings in Step 1 and in Step 2.

Within ten days of the receipt of the written appeal, the Dean will meet with the Chairperson, the student, and the faculty member in an attempt to resolve the problem.

The Dean will provide a written decision within ten days of the meeting in Step 3.

The Dean's decision is final.

College of Engineering and Design
Environmental and Urban Systems
The College of Engineering and Design offers an inter-disciplinary Master of Science program in Environmental and Urban Systems for those interested to practice in the environmental field and or urban and regional planning. The program addresses the social, economical, physical and ecological aspects of problems related to neighborhoods, cities, metropolitan and larger regions and their interface with natural systems. Particular emphasis will be placed on issues related to tropical/sub-tropical areas.

Admission Requirements
The applicant must meet the general University admission requirements and should have completed an undergraduate major in environmental or urban systems, environmental studies, engineering, architecture and related areas, the natural sciences or a related field. Students who do not meet the stated criteria may be considered for admission if they have completed certain prerequisites and have work experience or other qualifications in the field. Additional courses may be required for some areas of specialization.

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 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.
Civil and Environmental Engineering

L. David Shen, Associate Professor and Acting Chairperson
Hector R. Fuentes, Associate Professor
Dongzhou Huang, Visiting Research Associate
Jian Huang, Visiting Research Associate
Luis A. Prieto-Poror, Professor
Laertis Tall, Professor
Zonghong Tang, Assistant Professor
Bettn Tansel, Assistant Professor
Leroy E. Thompson, Professor
Fernando Tinoco, Visiting Professor
Vassilios A. Tsihrintzis, Assistant Professor
Oklay Ural, Professor
Ton-Loo Wang, Associate Professor
Yihua Xiong, Assistant Professor
Fang Zhao, Assistant Professor

Graduate Programs

Hector R. Fuentes, Graduate Studies Advisor and Environmental Engineering Coordinator

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 course work as well as research. The student is generally encouraged to specialize in a defined area of civil engineering, but also find it desirable to pursue a more general program of studies combining subject material from different areas of specialization and interdisciplinary related courses.

The graduate degree is offered to prepare qualified students for the professional practice of civil engineering. The degree is available in a thesis or non-thesis program. The thesis program entails a minimum of six credits for the successful completion of the research and thesis. The non-thesis program must be supported by the successful completion of a project and a report of substantial engineering content for a minimum of three credits. A student must satisfactorily complete a minimum of 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 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 must 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 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. The program requirements for all graduate programs are uniform, regardless of previous grade point average or degree. All candidates 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).

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 Admissions 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.

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 that includes an oral defense of the thesis.

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 two credits of coursework 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 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 Sciences; EGM-Engineering Mechanics; EGN-Engineering General; ENV-Engineering Environmental; ITE-Transportation and Traffic Engineering

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: Permission of instructor.

CCE 5505 Computer Integrated Construction Engineering (3). Course covers the discussion of available software related to Construction Engineering topics: knowledge based expert systems and their relevance to construction engineering planning and management. Prerequisite: Permission of instructor.

CEG 5065C Geotechnical Dynamics (4). Analytical, field, and laboratory techniques related to vibration problems of foundations, wave propagations, behavior of soils and rocks, earth dams, shallow and deep foundations. Earthquake engineering. Prerequisite: CEG 4011.


CEG 6105 Advanced Foundations Engineering (3). Computer applications involving the numerical analysis and design of complex soil-structure interactions: highway and airfield pavements, deep foundation groups and NATM tunnelling techniques. Prerequisite: CEG 4012C.

CES 5106 Advanced Structural Analysis (3). Extension of the fundamental topics of structural analysis with emphasis on energy methods and methods best suited for non-prismatic members. Prerequisite: CES 4101.

CES 5565 Computer Applications in Structures (3). Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. Prerequisites: CEG 4605 and CEG 4702.

CES 5606 Advanced Structural Steel Design (3). Extension of the analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Prerequisites: CES 4101, CEG 4605.

CES 5715 Prestressed Concrete Design (3). The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: CES 4702.

CES 5800 Timber Design (3). The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fasteners and their significance in design.

CES 6706 Advanced Reinforced Concrete Design (3). The analysis and design of reinforced concrete and masonry structural systems to formalize the student’s knowledge of the behavior of structural components into a final integrated structure. Prerequisites: CES 4101, CES 4702, CEG 4011.

CGN 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 candidate to take the P.E. written examination in the field of Civil Engineering. Reviews hydraulic, 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's advisor.

CGN 6971 Thesis (1-6). The student following the thesis option of the Master's degree will pursue research through this course. The research work will culminate with an acceptable thesis. Prerequisite: Permission of graduate's thesis advisor.

CWR 5235 Open Channel Hydraulics (3). Theoretical treatment and application of hydraulics. Flow in open channels with special reference to varied flow, critical state hydraulic jump, and wave formation. Prerequisites: EGN 3535 and ENV 3621.

CWR 6117 Statistical Hydrology (3). Quantitative determination of surface water run-off from a statistical approach. Prerequisites: CWR 3201 and CWR 3103.

CWR 6125 Groundwater Hydrology (3). Physical properties, equations of flow/mass transport, saturated/un-saturated zone, wells, pumping tests, quality/contamination control, analytical solutions, introduction to numerical models/computer codes. Prerequisite: Permission of instructor.

CWR 6126 Advanced Groundwater Hydrology (3). Finite difference/finite element/boundary integral methods, transport and fate of chemically and biologically reacting solutes, tracer tests, hydrological approaches to remedial action and monitoring. Prerequisites: CWR 6125, EGN 5455, Permission of instructor.

EES 5135 Water Quality Indicators (3). Ecological studies of micro and macro organisms which are indicators of water quality. Emphasis of bioassays and early warning systems. Prerequisite: Permission of instructor.

EES 5137 Biological Monitoring of Freshwater Ecosystems (3). The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisite: EES 5135 or permission of instructor.

EES 5506 Occupational Health (3). Effects, assessments, and control of physical and chemical factors in man's environment, including chemical agents, electromagnetic radiation, temperature, humidity, pressures, illumination, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5605 Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 6506 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electro-magnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6608 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.

EEM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Moire. Prerequisites: EGM 3520, EGM 6653.

EEM 5351 Finite Element Methods in Mechanics (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydroelasticity, etc. Prerequisite: EGM 3520.

EEM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of simple 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 5563 Theory of Elasticity (3). An advanced course covering the concepts of stress and strain tensors, indicia notation, transformation of stresses, compatibility equations, the stress function and the closed form solution of some important continuum mechanics problems. Prerequisites: EGM 3520, MAP 3302.

EGM 6675 Advanced Plasticity (3). Formulation of the plastic stress-strain relationships; Prandtl-Reuss equations; yield criteria; Plane Plastic Flow and the Plane Slip Line Field Theory; limit analysis and basics of creep. Prerequisite: EGM 3520.

EGM 6736 Theory of Elastic Stability (3). Course will cover the beam-column problem; elastic and inelastic buckling of bars and frames; review of experimental work and design formulas; buckling of rings, curved bars and arches; bending and buckling of thin plates and thin shells. Prerequisites: EGM 3520.

EGM 6796 Theory of Plates and Shells (3). A course covering the concepts of thin plates with small deflections; thin plates with large deflections; thick plates; the Membrane Theory of Shells; and the General Theory of Cylindrical Shells. Prerequisites: EGM 3520.

EGN 5455 Numerical Methods in Engineering (3). Study of procedures that permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Prerequisite: CES 4101.


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
Graduate 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, NO2, NO3, PO4, etc. Prerequisites: ENVR 6666, CCHM 1046, and CCHM 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, nitrite, TKN, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 6666, CCHM 1046, and CCHM 1046L Corequisite: ENV 5512.

ENV 5517 Water and Wastewater Treatment (3). Wastewater treatment 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. Prerequisite: Computer Programming or permission of instructor.

ENV 5666 Water Quality Management (3). Predicting and evaluating the effect of human activities on streams, lakes, estuaries, and ground waters; and the relation of human activities to water quality and protection of water resources. Prerequisite: Permission of instructor.

ENV 5905 Independent Study (1-3). Individual research studies available to academically qualified students on graduate status.

ENV 5930 Special Topics in Environmental Engineering (1-3). Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

ENV 6045 Environmental Modelling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Prerequisite: Computer programming or permission of the instructor.

ENV 6510 Advanced Unit Operations I (3). Theory and design of physical and chemical processes for treatment of contaminated media. Application of fluid mechanics, heat and mass transfer to design and operation of physical/chemical systems. Prerequisite: Permission of instructor.

ENV 6511C Advanced Unit Operations II (3). Theory and design of biological processes for treatment of contaminated media. Application of biochemical reaction kinetics theory to design and operation of biological treatment systems. Prerequisite: Permission of instructor.

ENV 6511L Advanced Unit Operations II Lab (1). Bench scale experiments for scaling-up and designing the following water and wastewater processes: sedimentation, coagulation, filtration, adsorption, oxidation and gas transfer. Prerequisite: ENV 6510. Corequisite: ENV 6511.

ENV 6516 Advanced Treatment Systems (3). Integration of unit operations into advanced treatment systems for contaminated media. Applications may include either conventional or innovative/ emerging technologies. Prerequisite: ENV 6510 or ENV 6511.


ENV 6615 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Prerequisite: Permission of instructor and 24 graduate credits.

ENV 6616 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.


TEE 5015 Applied Statistics in Traffic and Transportation (3). Civil and Environ
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. Prerequisite: 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 studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: ITE 4201.

ITE 5506 Urban Mass Transit and Transportation Planning (3). Models of urban growth, population forecasts, trip generation, trip distribution, and trip assignment models, model split, system evaluation, transit marketing. Prerequisite: ITE 4201.

ITE 5526 Airport Planning and Design (3). Theory and principles of airport planning and design, include both general aviation and major commercial airports. Design projects required. Prerequisite: ITE 5835 or consent of instructor.

ITE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in transportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: ITE 4201.

ITE 5805 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisite: SUR 4201.


ITE 5925C Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: ITE 4201.

ITE 6257 Traffic Control Systems Design (3). Theory and principles of traffic control systems design, including both freeway and urban streets. Design projects required. Prerequisite: ITE 4201.
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 (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 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 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 semester credit hours at the 5000-6000 level in Electrical Engineering.

The candidate is required to pass a comprehensive final examination. This examination is given near the end of the candidate's final semester by a committee composed of three faculty members appointed by the Department. A student who fails the examination may not attempt it again until one semester has elapsed or until additional work prescribed by the examining committee is completed. The student may retake the examination only once. The examination will test the student's general ability in his or her areas of study as determined by the student's supervisory committee.

Course Requirements
Common Core
Select three courses with advisor approval

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<th>Course</th>
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<td>EEL 5171</td>
<td>Advanced System Theory</td>
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<td>EEL 6311</td>
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Select two courses with advisor approval

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<tr>
<td>EEL 6020</td>
<td>Numerical Analysis of Electrical Devices</td>
<td>3</td>
</tr>
<tr>
<td>MAA 4211</td>
<td>Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MAA 4402</td>
<td>Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MAD 3401</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MAP 4401</td>
<td>Advanced Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5117</td>
<td>Mathematics and Statistics Modeling</td>
<td>3</td>
</tr>
<tr>
<td>STA 5446</td>
<td>Probability Theory I</td>
<td>3</td>
</tr>
<tr>
<td>STA 5447</td>
<td>Probability Theory II</td>
<td>3</td>
</tr>
<tr>
<td>STA 5800</td>
<td>Stochastic Processes for Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

The above two lists may be changed or expanded by the committee.

Remaining course work will be selected by the student and his advisor based on the student's career objectives.
Any course taken without the proper prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Students who are dismissed from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

**Master of Science in Computer Engineering**

The Department of Electrical and Computer Engineering offers both thesis and non-thesis options for the Master's Degree in Computer Engineering. A student pursuing the Master's degree with or without thesis is required to pass a comprehensive oral or written examination and must complete all the required work during the five years immediately following the date of admission to the program.

The program requires that students entering this program have a strong background in math through differential equations, physics with calculus, engineering science, electrical engineering and computer hardware and software. The degree program will provide training in electrical engineering, specializing in computer hardware design as well as in software engineering.

**Admission Requirements**

Admission requirements to Computer Engineering are the same as listed under the Electrical Engineering Master's program.

**Graduation Requirements**

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Electrical and Computer Engineering Department.
2. Certification by the Dean of the College of Engineering 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 coursework 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 department members appointed by the department. A student who fails the examination may not attempt it again until one semester has elapsed or until additional work prescribed by the examining committee is completed. The student may retake the examination only once. The examination will test the student's general ability in his or her areas of study as determined by the student's supervisory committee.

**Common Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 5741</td>
<td>Advanced Microcomputers</td>
</tr>
<tr>
<td>EEL 5718</td>
<td>Computer Communication Network Engineering</td>
</tr>
<tr>
<td>EEL 6167</td>
<td>VLSI Design</td>
</tr>
</tbody>
</table>

**Electives Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 5725</td>
<td>Digital Systems Engineering I</td>
</tr>
<tr>
<td>EEL 6726</td>
<td>Digital Systems Engineering II</td>
</tr>
<tr>
<td>EEL 6675</td>
<td>Data Communications Engineering</td>
</tr>
<tr>
<td>EEL 6444</td>
<td>Optical Fiber Communications Systems</td>
</tr>
<tr>
<td>EEL 6505</td>
<td>Digital Signal Processing</td>
</tr>
<tr>
<td>EEL 6509</td>
<td>Digital Communications by Satellite</td>
</tr>
<tr>
<td>EEL 6253</td>
<td>Computer Analysis of Power Systems</td>
</tr>
<tr>
<td>EEL 6758</td>
<td>Engineering Design of Microprocessor Based Operating Systems</td>
</tr>
</tbody>
</table>

**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 of at least 1000 points
   c. Three letters of recommendation in the forms provided by the department
   d. TOEFL score of at least 550 points for non-English speaking natives.

2. Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University’s Graduate Policies and Procedures.

Identification of Research Area

Within 15 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no such professor can be found, the student will be dismissed from the Ph.D. program. Contact the Department for a list of the graduate faculty members and their research interests.

Course and Residency Requirements

Course Requirements

At least 90 credit hours beyond the bachelor’s degree, including a maximum of 30 credit hours of course work, with a minimum grade of “B” in each course, earned in a Master’s degree in Electrical Engineering received at FIU or another accredited institution. The credit hours earned towards the Ph.D. program have the following requirements and restrictions:

1. At least 12 credits of Ph.D. Course Breadth Requirements.
2. At least 12 credits of course work at 6000 level of major field of interest.
3. Registration for Advanced Research is allowed only after successfully having passed the written comprehensive examination.
4. Registration for EEL 7980 (Research for Doctoral Dissertation) is allowed only after the student is admitted to candidacy. Twenty-four dissertation hours are required.
5. At least 30 credit hours of 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 MS EE degree must take this exam before completion of 28 graduate credit hours of course work. Failure to do this is a cause for dismissal from the Ph.D. program.

The student must pass all three areas of the examination. Failing one area implies failure of the entire examination. The exam must be re-taken the next time it is offered. Failing a second time is a cause for dismissal from the Ph.D. program.

Consult the Graduate Guidelines available in the Department for details on examination procedures, dates, duration, application and grading criteria.

Oral Candidacy Examination:

To take the oral part of the candidacy examination, a student must be in good academic standing at the University, the Research Committee must certify that the student is capable of completing all required coursework for the degree by the end of the semester in which the candidacy examination is taken and must have passed the written comprehensive examination.

This exam is usually taken within one year after the satisfactory completion of the written comprehensive examination and consists of the presentation and defense of the student’s written research proposal.

Admission to Candidacy

Candidacy status indicates that a doctoral student is ready to commence writing the dissertation. A student is admitted to candidacy upon successfully completing all required coursework and passing the candidacy examination.

Oral Defense and Submission of Doctoral Dissertation

A dissertation is required of all candidates for the doctoral degree. A proposal must be submitted to the student’s Research Committee for approval, following the general guidelines in the “Regulations for Thesis and Dissertation Preparation”. A student must enroll for dissertation credits in the semester in which he or she expects to be admitted to candidacy, and must maintain continuous enrollment for not less than 3 credits of EEL 7980 every semester, including Summers, until the semester in which the doctoral degree is awarded. Upon completion of the dissertation, the degree candidate will submit to the Dean of Graduate Studies an application for dissertation defense signed by the student’s Advisory Committee with sufficient time to allow for publishing a notice in the monthly calendar of dissertation and 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 conductors in tissue and the nervous system as an electrical network. Prerequisite: EEL 4202 or permission of instructor.

EEL 5085 Bioradiation Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or permission of instructor.

EEL 5146 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140 or permission of instructor.

EEL 5171 Advanced Systems Theory (3). State-space representations for continuous and discrete-time systems, controllability and observability, pole-zero allocation, Lyapunov stability theorem, state observers. Prerequisites: EEL 3657 and graduate level or advanced senior standing or permission of instructor.

EEL 5270 Electrical Transients in Power Systems (3). Traveling waves on transmission and multi-conductor systems, successive reflections, distributed parameter systems, transients on integrated power systems. Prerequisite: EEL 4213 or permission of instructor.

EEL 5275 Power Systems Protection (3). Analysis of power systems under faulted conditions using linear transformation. The study of surge, transient and waves on power lines. Computer-aided analysis and design emphasizing the protection of equipment. Prerequisite: EEL 4215 or permission of instructor.

EEL 5348 Digital Electronics (3). Analysis and design of logic gates using saturated and non-saturating elements, transmission gates, interfacing of logic families, bistable circuits, A/D and D/A converters. Prerequisite: EEL 4304.

EEL 5352 Bipolar Junction Transistors (3). Bipolar junction transistor physics. Semiconductor bulk properties at equilibrium and nonequilibrium, PN junction theory. Theory of the bipolar junction transistor. Prerequisite: EEL 3396 or permission of instructor.

EEL 5353 Field Effect Transistors (3). Field effect device physics and technology. MOS capacitor, DC and AC characteristics of the MOS transistor. The MOS transistor in dynamic operation. Prerequisites: EEL 3396 or permission of instructor.

EEL 5366 Industrial Electronics (3). A study of solid state devices for the control of power, their applications and limitations in power switching circuits and in the control of physical transducer. Prerequisites: EEL 4213, EEL 4304 or permission of instructor.

EEL 5371 High Frequency Amplifiers (3). Analysis and design of high frequency amplifiers and oscillators: stability, stability 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 3155, 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 5571 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 5574 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4709 or permission of instructor.

EEL 55725 Digital Systems Engineering I (3). This course involves systematic studies of digital instrumentation.
digital control, digital communication systems concepts and case studies. Prerequisites: EEL 4304, EEL 4746 or equivalent or permission of instructor.

EEL 5741 Advanced Microprocessor Systems (3). Interfacing of various microprocessors together. Concepts of master-slave systems, virtual memory and I/O control techniques. Digital system evaluation and optimization. Prerequisite: EEL 4746 or permission of instructor.

EEL 5810 Neural Networks - Algorithms and Applications (3). Various artificial neural networks and their training algorithms will be introduced. Their applications to electrical and computer engineering fields will be also covered. Prerequisite: MAC 3312.

EEL 5820 Digital Image Processing (3). Human vision, digital imaging, image transforms, image enhancement, image restoration, image compression, edge detection, shape analysis, depth information, texture analysis, and vision systems. Prerequisites: EEL 3135 and knowledge of any programming language (FORTRAN, Pascal, C).

EEL 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of instructor.

EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and dynamic 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: ELR 4202 and EEL 6505 or permission of instructor.

EEL 6076 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075 or permission of instructor.

EEL 6078 Therapeutic Medical Electronics (4). Operating principles and design methods for therapeutic electronic devices including: myoelectric prosthetic devices, cardiac pacers, nerve and muscle stimulators. Includes laboratory. Prerequisite: EEL 5071.

EEL 6081 Advanced Medical Imaging (3). Teaches operating principles and design techniques for hardware and software used in CAT and MRI medical imaging systems. Also study other techniques such as PET and nuclear medicine. Prerequisite: EEL 5085.

EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by 1-domain and s-domain techniques. Topics include topology, formulation of loop equations and node pair equations, state space networks, computer solutions. Prerequisite: EEL 5112 and FORTRAN or permission of instructor.

EEL 6147 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 selected practical problems. Prerequisite: EEL 4213 or permission of instructor.

EEL 6216 Application of Intelligent Systems to Power System Operations (3). Power system security assessment using intelligence systems techniques such as pattern recognition, expert systems, and neural networks. Class projects include applying IS to load forecasting, alarm processing. Prerequisites: EEL 4214, EEL 6273.

EEL 6235 Motor Drives Control (3). Switched, resonant and bidirectional power supplies, DC motors: single, three phase and chopper drives. AC motors: voltage, current and frequency control. Closed loop control. Prerequisites: EEL 4213, EEL 3303, EEL 3657.

EEL 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 systems, generation system operation and production costing analysis. Prerequisite: EEL 4215 or permission of instructor.

EEL 6261 Power Systems Engineering (3). steady-state analysis, fault studies, load flow, dynamic and transient performance, on-line control, practical applications. Prerequisite: EEL 4215 or permission of instructor.

EEL 6273 Power System Stability and Control (3). Direct methods for system stability, computer analysis of large scale models, Lyapunov stability, longer term stability, security analysis, MW-frequency control, isolated and multiple area control. Prerequisites: EEL 4215 and FORTRAN or permission of instructor.

EEL 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics 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 technologies. Ion implantation characteristics. Lithography techniques. Prerequisite: EEL 3396, EEL 4304 or permission of instructor.

EEL 6332 Thin Film Engineering (3). Thin films used in microelectronics and optoelectronics; deposition methods; evolution of film microstructure; film growth modeling; introduction to film analysis. Prerequisite: EEL 3396.

EEL 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 5663 or permission of instructor.

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic wave guide, optical device sources, 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 5663 or permission of instructor.

EEL 6509 Digital Communications by Satellite (3). This course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisite: EEL 5501 or permission of instructor.

EEL 6572 Pictorial Information Systems Design (3). Picture input device design, pictorial information systems hardware, picture processor design, picture storage system design, pictorial database system design, picture communication interface design, and engineering applications. Prerequisites: EEL 4709 or CDA 4400.

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, H DLC, SDLC. Real time switching techniques. Microprocessor based network topologies. Busing schemes such as VME, MULTIB, RS 232. 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 using sensors and transducers, to function as an integrated expert system in process control and industry. Computer vision, image processing and robotics. Prerequisites: EEL 4304, EEL 3712 and EEL 4746 or permission of instructor.

EEL 6673 Identification Theory (3). System modeling, off-line methods, on-line methods, order and structure determination, diagnostic tests and model validation. Prerequisite: EEL 5171.

EEL 6676 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 6870 Intelligent Computer Design (3). Fuzzy logic hardware, self-testing computer design, easy testable computer design, fault tolerant 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.
Industrial and Systems Engineering
Fredrick Swift, Professor and Chairperson
Joe Chow, Associate Professor
Chin-Sheng Chen, Associate Professor
Khokai Kengskool, Associate Professor
Shih-Ming Lee, Associate Professor
Menberu Lulu, Associate Professor
Sergio Martinez, Lecturer
German Nunez, Associate Professor
William Peterson, Assistant Professor
Milton Torres, Visiting Lecturer

Master of Science in Industrial Engineering
Chin-Sheng Chen, Coordinator

The Master of Science program in Industrial Engineering emphasizes research, as well as course work, and the graduate degree is intended to prepare students for the professional practice of Industrial Engineering. The Department offers both thesis and non-thesis options for the Master's Degree. The thesis program 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 550 or better.
5. Students with a BS in engineering other than Industrial must take one or two additional courses that have been specially developed which cover IE areas of special need.
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 the following four courses or equivalent as core requirements.
EIN 5322 Engineering Management
EIN 5605 Robotic Assembly Cell
EIN 6248 Advanced Ergonomics
EIN 6936 Design of Industrial Engineering Systems

Students must also take an additional 24 hours as prescribed by their advisor.

Recommended Program: (36)
Four core IE graduate courses 12
Four elective IE graduate courses 12
Two elective graduate courses (other departments) 6
Thesis 6

Available Areas of Concentration
Integrated Manufacturing
Human Factors
Engineering Management

Non-Thesis Option
The candidate is required to pass a comprehensive final examination. The exam will be administered by committee.

Industrial Engineering Electives
EIN 6115 Survey of Industrial Engineering Basics
EIN 5332 Quality Engineering
EIN 5359 Industrial Financial Decisions
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 5367 Design of Production Systems
EIN 6392 Product Design for Manufacturability and Automation
EIN 6397 Advanced Topics in Manufacturing 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 3351 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 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 6115 Survey of Industrial Engineering Basics (3). Review of the following topics: Human Factors, Work
Design, Automation & Robotics, Engineering Economy, Microprocessor Applications and Production Planning and Control.

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 Advance Ergonomics (3). Analysis of human factors in the design of engineering systems, with emphasis on the interface of man-machine-media and human limitations in relation to equipment design and work environments. Prerequisites: EIN 4314, EIN 4243, and PCB 3702 or equivalent.

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 6398 Advanced Manufacturing Process Engineering (3). Non-traditional manufacturing processes. Tool selection, jig and fixture design Material handling, Tolerance and dimensioning, Product assembly, Engineering economics, Manufacturing process planning. Prerequisite: EIN 3390.

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: CEN 5685.

EIN 6606 Robotic Systems (3). Basic robotic system principles, functional requirements of robotic systems, simulation of system preliminary design, and physical experimentation of robotic systems.

EIN 6908 Independent Study (1-3). Individual supervised study by a faculty. A study plan and a final report are 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 MSE 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.

ESI 6315 Survey of Operations Research (3). Review of the following topics: Linear Programming, Integer Programming, Dynamic Programming, Network, Queuing, Forecasting, Inventory Theory, Simulation and Quality Control.


ESI 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.

ESI 6524 Applied Industrial Systems Simulation (3). Advanced simulation techniques with a focus on practical systems modeling using several user-oriented simulation languages. Projects involving design of high-performance simulation programs are required. Prerequisite: ESI 3523.

ESI 6546 Network Flow Analysis (3). Deterministic and stochastic network flow analysis: minimal cost flow, shortest route, max-flow, and out-of-kilter algorithms; constrained network analysis; and stochastic queuing networks. Prerequisite: ESI 3314.
Mechanical Engineering

M. Ali Ebadian, Professor and Chairperson
S. Chellalah, Assistant Professor
Genady Cherapanov, Professor
Zhihong Dong, Visiting Assistant Professor
Mohammed El-Sayed, Associate Professor
Carmen Goldberg, Visiting Coordinator
Gordon Hopkins, Professor and Dean
Weil Jiang, Research Associate
W. Kinzy Jones, Professor
Rene Leonard, Associate Professor
Cesar Levy, Associate Professor
Weligong Li, Visiting Assistant Professor
Norman Munroe, Assistant Professor
Mordecai Perl, Courtesy Professor
Ian Radin, Lecturer
Richard Schoephoerster, Assistant Professor
Ebrahim Shiraznedjad, Assistant Professor
Frederick Swift, Professor
Ibrahim Tansel, 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

Bachelor’s degree in Engineering or related field from an accredited institution with a minimum 3.0 GPA (on a scale of 4.0 maximum) in the upper level work and a combined (verbal and quantitative) score of 1000 on the Graduate Record Examination (GRE). Applicants having either a 3.0 GPA or a score of 1000 on the GRE will be evaluated by the department committee for possible admission. Under certain circumstances, consistent with state university requirements, students may be admitted under 10% exception rule, if they do not have a 3.0 GPA nor a score of 1000 on the GRE. Therefore, minority students are encouraged to apply for proper program admission. A student whose degree is not in Mechanical Engineering may need additional remedial coursework. Foreign students require a minimum of 500 on the TOEFL.

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 Biomaterial Area:
EML 5709 Intermediate Fluid Mechanics 3
EML 6725 Computational Fluid Dynamics 3

Mechanics/Materials Area:
EGM 5615 Synthesis of Engineering Mechanics 3
EGM 6570 Fracture Mechanics 3

CAD/CAM/Manufacturing Area:
EML 5530 Intermediate CAD/CAE 3
EML 5385 Identification Techniques of Mechanical Systems 3

An additional 15 credit hours are to be taken from the following Mechanical Engineering courses. (Up to a maximum of six semester hours may be taken from courses offered by other departments).

EGM 5354 Finite Element Method Application in Mechanical Engineering 3

EGM 5615 Synthesis of Engineering Mechanics 3
EGM 6422 Advanced Analysis of Mechanical Systems 3
EGM 6570 Fracture Mechanics 3
EGM 6586 Fluid Mechanics Applications in Physiological Systems 3
EGM 6587 Applied Biomedical and Diagnostic Measurements 3
EGM 6588 Solid Mechanics Applications in Physiological Systems 3
EMA 5295 Principles of Composite Materials 3
EMA 5507C Analytical Techniques of Material Sciences 3
EMA 5935 Advanced Topics in Material Engineering 3
EMA 6127C Advanced Physical and Mechanical Metallurgy 3
EMA 6165C Polymer Physics and Analytical Techniques 3
EMA 5509 Mechanical Design Optimization 3
EMA 5825 Sensors and Applied Machine Intelligence 3
EMA 5103 Intermediate Thermodynamics 3
EMA 5104 Classical Thermodynamics 3
EMA 5125 Classical Dynamics 3
EMA 5152 Intermediate Heat Transfer 3
EMA 5385 Identification Techniques of Mechanical Systems 3
EMA 5530 Intermediate CAD/CAE 3
EMA 5562 Advanced Electronic Packaging 3
EMA 5606C Advanced Refrigeration and Air Conditioning Systems 3
EMA 5615C Computer Aided Design in Air Conditioning Systems 3
EMA 5708 Advanced Design of Thermal and Fluid Systems 3
EMA 5709 Intermediate Fluid Mechanics 3
EMA 6153C Advanced Heat Transfer 3
EMA 6154 Conduction Heat Transfer 3
EMA 6155 Convection Heat Transfer 3
EGM 6346 Computational Engineering Analysis (3). Application of computational methods to mechanical engineering problems of transnational, 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). Utilizes 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 6422 Advanced Analysis of Mechanical Systems (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisite: EGM 5315 or permission of instructor.

EGM 6570 Fracture Mechanics (3). Griffith’s and Irwin’s fracture criteria; stress intensity factors evaluation; crack-tip plastic zone; fracture toughness measurement; crack initiation; fatigue crack growth; stress corrosion cracking. Prerequisite: EGM 5615.

EGM 6586 Fluid Mechanics Application in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Flow, diffusion, and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machine, dialysis units and heart valves will be discussed. Prerequisite: EGM 4580 or permission of instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurement and the design of biometrical systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging techniques, and electrical safety. Prerequisite: EGM 4580 or permission of instructor.

EGM 6588 Solid Mechanics Application in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis in musculoskeletal systems and trauma. Design application in orthotics and prothesis and heart valve. Prerequisite: EGM 4580 or permission of instructor.


EMA 5295 Principles of Composite Materials (3). The mechanical behavior of composite materials used in the automotive, aircraft and sporting goods industries, material and laminar properties; design of composites; failure analysis; and environmental effects. Prerequisite: EGM 5615 or permission of instructor.

EMA 5507C Analytical Techniques of Materials Sciences (3). Fundamental theories and techniques of the analytical methods for materials including: X-ray diffraction, scanning and transmission electron microscopy, thermal and surface analysis, and vacuum systems. Prerequisite: EGM 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 tech-
EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and Legendre transformations; maximal relations, first and second order phase transitions. Prerequisites: EML 3101 and EGN 3311.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electromagnetic, and chemical systems, under ideal and real current interest. Prerequisite: EML 3101.


EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these techniques are discussed for identification of mechanical structures, and machine diagnostics. Prerequisite: EML 4312.

EML 5509 Mechanical Design Optimization (3). Finite element analysis and sensitivity analysis combined with numerical optimization techniques to optimize the design. Prerequisite: EGM 5354 or permission of instructor.

EML 5530 Intermediate CAD/CAE (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for 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 5606C Advanced Refrigeration and Air Conditioning Systems (3). The various methods used in the thermal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of producing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermoelectric, solar heating and cooling systems.

EML 5615C Computer Aided Design in Air Conditioning (3). Software will be used to demonstrate heating, ventilating and air conditioning design concepts and sizing equipment and determining performance parameters. Project design is required. Prerequisite: EML 4601, EML 4603.

EML 5708 Advanced Design of Thermal and Fluid System (3). Advanced designs of pumps, compressors, heat exchangers, HVAC systems and thermal and fluid control devices. Prerequisite: EML 4706.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate equations. Prerequisite: EML 3126.

EML 5825 Sensors and Applied Machine Intelligence (3). The sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Prerequisites: EML 4312, Production Machine Modeling and Design, or equivalent, or permission of instructor.

EML 6153C Advanced Heat Transfer (3). Review of analogies among heat, mass and momentum transfer. Free and forced convection from theoretical and experimental viewpoint for laminar and turbulent flows. Film and dropwise condensation. Prerequisite: EML 5152.

EML 6154 Conduction Heat Transfer (3). Heat transfer by conduction for steady and unsteady One and Multi-dimensional systems with and without heat generation. Temperature distribution analysis using analytical and computational methods. Prerequisite: EML 4140.

EML 6155 Convection Heat Transfer (3). Development and solution of governing equations of parallel flows, boundary layer flows, instability and turbulence with convection heat transfer. Prerequisite: EML 4140.

EML 6157 Advanced Radiation Heat Transfer (3). Introduce the graduate student to heat transfer by radiation for steady and unsteady one and multi-dimensional systems. Radiation parameters effecting different systems will be studied, analytically or numerically. Prerequisite: EML 4140.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multidegree of freedom systems, discrete and continuous systems; vibration control and introduction to vibration of nonlinear systems. Prerequisite: EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and practical aspects of material failure including fatigue modes, life prediction, corrosion with the goal of designing a safe product. Prerequisite: EGM 5615.

EML 6532 Advanced Computer Aided Design/Computer Aided Engineering (3). Advanced CAD techniques in design of mechanical systems, architecture of CAD systems including database applications. Advanced computational geometry 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, geo-
School of Design

Leonardo Alvarez, Associate Professor and Director
Edward T. Baker, Assistant Professor
Juan A. Bueno, Assistant Professor
Milhay Lenart, Visiting Lecturer
Iraj Majzub, Professor and Associate Dean
Robert Mitchell, Visiting Lecturer
Ana Maria Pages, 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 Department offers two options in the Landscape Architecture graduate program. The Professional Degree Option is intended for individuals with an undergraduate degree in a major other than a design discipline, or with a preprofessional undergraduate degree in a design discipline. 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 Department. Satisfactory completion of 90 credits in the following course of study is required.

Landscape Architectural Design 36
Design Implementation 21
History and Theory 12
Professional Practice Studies 6
Research Specialization 15

Individuals with an undergraduate degree in architecture from an accredited professional program, or with a pre-professional undergraduate degree in architecture, landscape architecture, or environmental design may be granted advanced standing, not to exceed 36 credits for undergraduate courses with a grade of 3.0 or better on a 4.0 point scale.

Post-Professional Degree Option

Individuals with an undergraduate degree in landscape architecture from an accredited professional program are eligible for admission to the program. Two years of full-time study in residency are normally required. However, a part-time study option is available subject to the review of the Department. Satisfactory completion of 60 credits in the following course of study is required.

Landscape Architectural Design 24
Elective Courses 36

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.

Department of Landscape Architecture and Architectural Studies Awards. These awards are annually presented by the Department, 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 Department in satisfaction of course or degree requirements, becomes the physical property of the Department. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, and other materials. The Department assumes no responsibility for safeguarding such materials. At its discretion, the department may retain, return, or discard such materials. The Department 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: Departmental approval.

LAA 5335 Site Development (3). Issues, controls, and methods pertinent to the physiographic, topographical, and cultural determinants of site development. Prerequisite: LAA 5562 or equivalent.

LAA 5371 Computer Practices in Design I (3). Introduction to computer applications and to computer utilization in Landscape Architecture. Explore both the potentials and limitations of computer usage in the profession. Prerequisites: COC 3300 or equivalent and departmental 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.

LAA 5652 Interdisciplinary Design Studio I (6). Introduction to two- and three-dimensional representational techniques. Fundamental geometric constructions, spatial theory, three-dimensional perception and color theory. Programmed designs are executed. Prerequisite: Departmental 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 to the 20th century, including current trends. Departmental 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: Departmental approval.

LAA 6215 Landscape Architectural Practice (3). Topics to be covered include economic viability, organizational structure, intra-office relationships, management systems, task definition, and computer applications. Prerequisite: LAA 5371.

LAA 6222 Landscape Architecture Communication (3). This course develops methods and techniques for the effective communication of landscape planning and design values to the consumer. Prerequisite: Departmental 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 land resource data and applying the results to land management and environmental design. Prerequisites: LAA 5521.

LAA 6541 Tropical Landscape Systems I (3). Study of the natural and cultural aspects pertinent to the planning, design and management of the world's tropical and subtropical landscapes.

LAA 6551 Tropical Landscape Systems II (3). Application of the natural and cultural aspects pertinent to the planning, design and management of sustainable tropical and subtropical landscapes. Prerequisites: LAA 5521 and LAA 6541.

LAA 6554 Landscape Architectural Design II (6). Planning and design studio on the issues of recreational land use at a range of project scales. Emphasis on environmentally significant sites in tropical and subtropical landscapes.

LAA 6555 Landscape Architectural Design III (6). Planning and design studio on the issues of residential land use at a range of project scales. Emphasis on culturally significant sites in tropical and subtropical landscapes.

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

LAA 6835 Interdisciplinary Design Studio 2 (6). Work on selected projects with graduate students in architecture, urban and regional...
Planning and/or building construction. Landscape architecture faculty involvement. Prerequisite: LAA 6655.

LAA 6905 Independent Study (1-3). Individual studies under supervision of faculty, tutor, or advisor. Consent of tutor and faculty chairperson required. Prerequisite: Departmental approval.

LAA 6915 Supervised Research (1-5). Each student must engage in supervised work under a principal investigator on either a proposal for funding or a funded project. Assigned duties must be agreed to by student and principal investigator prior to beginning the supervised work. Prerequisite: Departmental 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. Prerequisite: LAA 5371 and departmental approval.

LAA 6935 Graduate Seminars (1-3). Topical seminar designed especially for direction by visiting professionals or visiting faculty from other disciplines. Prerequisite: Departmental approval.

LAA 6936 Special Topics (1-3). Course to address current special topics of interest. It may be developed in cooperation with a private or public sector office, industry, or environmental association.

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 departmental approval.

**Construction Management**

Jose D. Milloy, P.E., Associate Professor and Chairperson

Irishad Ahmed, Assistant Professor

Gabriel Auriolles, Assistant Professor

Wilson C. Barnes, A.I.A., Assistant Professor and Coordinator, Broward Program

Bhaskar Chaudhuri, P.E., Professor

John M. Dye, S.M.C.E., Visiting Professor

Eugene D. Farmer, A.I.A., Assistant Professor

Ayman Morad, Assistant Professor

Julio Olazo, Assistant Professor

**Master of Science in Construction Management**

The master's degree is rapidly becoming the entry level requirement for middle and upper level management 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 master's 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, 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 master's 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 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 in 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 master's 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 semes-
ter hours of coursework and up to six semester hours of thesis. The non-thesis option consists of 39 semester hours of coursework and may include up to six semester hours of independent studies. A student shall not register for masters thesis without first having received the approval from his/her advisor, his/her supervisory committee, and the Chairperson of the Department. A student may not register for independent studies without first having received the approval of his/her advisor, the Department Graduate Committee, and the Chairperson of the Department.

Course Requirements
Graduate credit is awarded for courses numbered 5000 and above. The work in the major field must be in courses numbered 5000 or above. For work outside the major, courses numbered 3000 or above may be taken provided they are part of a plan of study approved by the student's supervisory committee of the Department Graduate Committee, whichever is applicable. Approval must be obtained in writing prior to the student registering for such a course.

Students with deficiencies in the areas designated as equivalent related fields will be required to take 3000 and 4000 level courses in Construction Management prior to registering for any graduate level courses in order to provide the proper foundation for advanced courses. Students required to take these pre-requisite courses are advised to register 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 of credit requires approval of the student's advisor, supervisory committee (if thesis option) and the Department Chairperson. Petitions for transfer of credit for a masters degree must be made during the student's first term of enrollment in the masters program. Nonresident or extension work taken at another institution may not be transferred to Florida International University for graduate credit. No courses taken by correspondence or as part of another degree may be used toward a graduate degree.

Supervisory Committee
Students who 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. The Department will contact the student to coordinate the scheduling of this examination during the student's final semester at the university. 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.

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-requisi-
Grads will be taken 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 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' responsibilities, 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 applying for graduation, that student must reapply for graduation.

It is the student's responsibility, not his/her advisor's responsibility, to ascertain that all requirements for graduation, as stated in the University Catalog and in the Department Program sheets, have been met.

**Core Curriculum**

All students working to obtain a Master of Science Degree in Construction Management must take the following seven courses (21 credits) as core requirements:

- BCN 5626 Construction Cost Analysis & Control 3
- BCN 5716 Productivity in Construction 3
- BCN 5755 Construction Accounting & Finance 3
- BCN 5772 Management of Construction Organizations 3
- BCN 5784 Construction Information Services 3
- BCN 6785 Computer Estimating and Cost Analysis 3
- BCN 6935 Seminar on Construction Management 3

**Construction Management Electives**

Students choosing the thesis option must take a minimum of 15 credits from the courses listed below, 6 of which may be BCN 6971, Thesis. Students choosing the non-thesis option must take a minimum of 18 credits from the courses listed below.

- BCN 5022 Housing for Developing Countries 3
- BCN 5706 Interdisciplinary Aspects of Housing 3
- BCN 5735 Hazardous Materials & Waste in Construction 3
- BCN 5771 Management & Marketing of Const. Services 3
- BCN 5905 Directed Independent Studies 3-6
- BCN 5906 Special Topics 3-6
- BCN 6473 Systems Approach for Housing Planning 3
- BCN 6642 Value Engineering in Construction 3
- BCN 6775 Decision & Risk Analysis in Construction 3
- BCN 6786 Artificial Intelligence in Construction Management 3
- BCN 6916 Developments in Construction Technologies 3
- BCN 6971 Thesis 3-6

1. A student shall not register for BCN 6971, 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
BCN 5905. Independent Studies, without first having received the approval of his/her advisor, the Department Graduate Committee, and the Chairperson of the Department.

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 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 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 5735 Hazardous Materials and Waste in Construction (3). Discussion of the common hazardous materials and waste regulations found in construction activities.

BCN 5755 Construction Accounting and Finance (3). Money management in construction operations: financing, funding, sources of money, cash flow, disbursement, liability and bonding, cost and managerial accounting, and profit analysis.

BCN 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. Prerequisites: 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. Prerequisites: COP 2172 and BCN 5784.

BCN 6916 Developments in Construction Technologies (3). Study of advanced field techniques and emerging uses worldwide. Information flow and creativity are highlighted as crucial elements which stimulate new developments. This course prepares the student to understand and deal with concepts of change. Prerequisite: BCN 5716.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (3-6). Students develop a thesis under the direction of a senior faculty mentor, and their supervisory committee, and advance and defend their proposals 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., (Vanderbilt University) Associate Professor
David P. Genereux, Ph.D., (Massachusetts Institute of Technology) Assistant Professor
Rudolf Jaffee, Ph.D., (Indiana University) Associate Professor
Ronald D. Jones, Ph.D., (Oregon State University), Associate Professor
Laurie L. Richardson, Ph.D., (Oregon State University), Assistant Professor
Vassilios A. Tsilintzis, Ph.D., (University of Illinois at Urbana) Assistant Professor
College of Engineering and Design

Dean

Gordon R. Hopkins

School of Engineering

Associate Dean

Gustavo A. Rolg

Associate Dean

Iraj E. Majzub

Director, Academic Support Services

Lourdes A. Meneses

Directors

Engineering Professional Development

Nell Hout-Cooper

School of Design

Leonardo Alvarez

Drinking Water Research Center

William J. Cooper

International Institute for Housing and Buildings

Oktay Ural

Academic Support Services

Lourdes A. Meneses

Chairpersons

Construction Management

Jose D. Mithani

School of Engineering

Civil and Environmental Engineering (Acting)

L. David Shen

Electrical and Computer Engineering

James R. Story

Industrial Systems and Engineering

Fredrick Swift

Mechanical Engineering

M. Ali Ebadian

Coordinators

FEEDS (Florida Engineering Educational Delivery Systems)

Ostis Villacampa

STAC (Southern Technology Application Center)

Ostis Villacampa

Faculty

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Dong, Zhifeng, Ph.D. (Xi’an Jiaotong University), Visiting Assistant Professor, Mechanical Engineering

Dye, John M., S.M., C.E. (Massachusetts Institute of Technology), Visiting Professor, Construction Management (Broward)

Ebadlan, Majid, Ph.D. (Louisiana State University), Professor and Chairperson, Mechanical Engineering

Ed-Sayed, Mohamed, Ph.D. (Wayne State University), Associate Professor, Mechanical Engineering

Farmer, Eugene D., M. Arch., R.A. A.I.A. (University of Illinois), Assistant Professor, Construction Management

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Geneveau, 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-Arias, Sergio, M.D. (University of Zaragoza), Courtesy Professor, Electrical and Computer Engineering

Hagmann, Mark J., Ph.D. (University of Utah), Associate Professor, Electrical and Computer Engineering

Helmer, Malcolm L., Ph.D. (Penn State University), Associate Chairperson, Associate Professor, Mechanical Engineering

Hout-Cooper, Nell M., Ph.D. (Florida Atlantic University), Director, Engineering Professional Development

Howard, Greta, M.Sc. (Florida International University), Lecturer, School of Design

Huang, Dongzhou, Ph.D. (Tonji University), Visiting Research Associate, Civil and Environmental Engineering

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Jiang, Wei, Ph.D. (University of Illinois), Visiting Research Associate Professor, Mechanical Engineering

Jones, Ronald, Ph.D. (Oregon State University), Associate Professor, Drinking Water Research Center, Biology

Jones, W. Kinzy, Ph.D. (Massachusetts Institute of Technology), Professor, Mechanical Engineering/Electrical and Computer Engineering
<table>
<thead>
<tr>
<th>Name</th>
<th>University/Institution</th>
<th>Specialization</th>
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<tr>
<td>Pages, Ana M., MLA</td>
<td>(Florida International University)</td>
<td>Visiting Lecturer, School of Design</td>
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<tr>
<td>Park, Dong C., Ph.D.</td>
<td>(University of Washington)</td>
<td>Assistant Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Peri, Mordechal, DSc.</td>
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<td>Courtesy Professor, Mechanical Engineering</td>
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<tr>
<td>Peterson, William</td>
<td>(The Ohio State University)</td>
<td>Instructor/Lecturer, Industrial Systems and Engineering</td>
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<tr>
<td>Prieto-Porter, Luis A.</td>
<td>(Princeton University)</td>
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<tr>
<td>Radin, Ian, Ph.D.</td>
<td>(University of Missouri)</td>
<td>Visiting Lecturer, Mechanical Engineering</td>
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<tr>
<td>Richardson, Laurie</td>
<td>(University of Oregon)</td>
<td>Assistant Professor, Drinking Water Research Center</td>
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<tr>
<td>Roig, Gustavo, A.</td>
<td>(University of Florida)</td>
<td>Associate Dean, College of Engineering and Design</td>
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<td>Rosales, Camilo, M.</td>
<td>(Harvard University)</td>
<td>Assistant Professor, School of Design</td>
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<tr>
<td>Ruiz, Laura, M.S.</td>
<td>(Florida International University)</td>
<td>Instructor/Advisor, Electrical and Computer Engineering</td>
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<tr>
<td>Samra, Abdul H.</td>
<td>(Wichita State University)</td>
<td>Assistant Professor, Electrical and Computer Engineering</td>
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<td>Schmidt, Pierre, E.</td>
<td>(Pennsylvania State University)</td>
<td>Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Shen, Lon-Li, David</td>
<td>(Clemson University)</td>
<td>Acting Chairperson and Associate Professor, Civil and Environmental Engineering</td>
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<tr>
<td>Story, James R.</td>
<td>(University of Alabama)</td>
<td>Chairperson and Professor, Electrical and Computer Engineering</td>
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<tr>
<td>Swift, Fredrick, Ph.D.</td>
<td>(Oklahoma State University)</td>
<td>Chairperson, Industrial and Systems</td>
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Graduate Graduate Catalog
Yih, Tachung, Ph.D. (Catholic University of America) Associate Professor, Mechanical Engineering
Zhao, Fang, Ph.D. (Carnegie-Mellon University), Assistant Professor, Civil and Environmental Engineering
College of Health

The College of Health offers programs of professional study in the health professions and promotes articulation between the academic units and clinical, experiential settings. Approximately 300 different clinical centers are utilized in the various degree programs. The academic departments of the College offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition, Medical Laboratory Sciences, Medical Record Administration, Occupational Therapy, Physical Therapy and Prosthetics and Orthotics. Master's degrees are offered in Dietetics and Nutrition, Medical Laboratory Science, Occupational Therapy, Physical Therapy, and Public Health. All degree programs are appropriately accredited by their respective professional accrediting 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, Associate Professor, Chairperson
Katharine R. Curry, Professor and AP4 Director and Director, Coordinated Undergraduate Program
Penelope S. Easton, Professor Emeritus
Evelyn B. Entone, Associate Professor and Didactic Program 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)
DIE 6568 Research Methods in Dietetics 3
DIE 6937 Graduate Seminar in Dietetics 1
STA 6166 Statistical Methods in Research 3
DIE 6971 Thesis in Dietetics 3-6 or
DIE 6908 Supervised Field Study in Dietetics 3

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 Health Services Administration, School of Public Affairs and Services, 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 dietetic systems in health and community institutions.

DIE 6256 Enteral Nutrition (3). The specific indications for enteral feeding are discussed with special emphasis on the unique requirements, and feeding techniques for specific disease states. Prerequisites: Physiology, Biochemistry, Diet Therapy I and II.

DIE 6257 Parenteral Nutrition (3). Clinical and metabolic advances in the parenteral feeding of the adult patient in relation to specific disease states. Prerequisites: Physiology, Biochemistry, Diet Therapy I & II.

DIE 6259 Management of Nutrition Services (3). Development and comparison of systems models used to plan, organize, staff, direct and control clinical nutrition services. Emphasis on cost effective/cost benefit analysis approach. Prerequisite: Graduate management course. Prerequisites: Physiology, Biochemistry, Diet Therapy I & II.

DIE 6367 Entrepreneurial Dietetics (3). Focus on the dietitian as a 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 6566 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 analyses 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 6590 Reading in Dietetics and Nutrition (1-3). Individual advanced study in a comprehensive overview of dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of instructor and advanced standing in graduate program.

DIE 6597 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 6690 Supervised Field Study in Dietetics (1-3). 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 6691 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). Intensive courses on specialized topics in dietetics and nutrition for the advanced student or professional. Topics based on current nutrition concerns. Prerequisite: Advanced 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 7437L Nutrition Counseling Supervision (2). Covers techniques for advising on food choices and providing support for lifestyle changes to meet wellness goals or treat diseases. Prerequisites: DIE 6368 and DIE 6368L.

DIE 7566 Research Concept Development in Dietetics and Nutrition (3). Grant proposal writing for dietetic and nutrition research. Prerequisite: DIE 6568.

DIE 7980 Dissertation (3-12). Research for doctoral dissertation. Prerequisite: Advancement to candidacy in doctoral program.

FOS 6236 Food Toxicology & Food Safety (3). Will cover causes of 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 6357 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. Prerequisite: Advanced graduate standing, DIE 6128 or equivalent.

FSS 6355 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 635L Computer Assisted Food and Nutritional Services Management Lab (1). Laboratory application in computer analyses and utilization in food services and nutritional care. Prerequisite: Advanced Graduate Standing. Corequisite: FSS 6355.

HUN 5123 Ethnic Influences on Nutrition and Food Habits (3). Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

HUN 5195 International Nutrition: Problems, Policies, and Planning (3). Advanced study of magnitude, causes and nature of undernutrition in low income countries; emphasis on problems, planning and policies directed toward alleviating hunger. Prerequisite: Permission of instructor.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: Permission of instructor.

HUN 5295 Contemporary Issues in Food and Nutrition (3). Updating food and nutrition information through the study of current research. Recommended for non-majors.

HUN 5611 Nutrition Education in the Community (3). In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisite: Recent courses in nutrition education or permission of instructor.

HUN 5621 Food, Nutrition and Communication (3). Concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis on communication via mass media. Prerequisites: Advanced standing, competency in food and nutrition knowledge.

HUN 6196 Food Economics (3). In-depth study of forces and policies affecting the procurement, preparation and utilization of food in society. Prerequisites: 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 Physio/Psychology 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. Prerequisite: Nutrition II, Biochemistry, Physiology.

HUN 6335 Functions of Vitamins (3). Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Nutrition II, Biochemistry, Physiology.
Medical Laboratory Sciences

Patrick F. Shen, Associate Professor and Chairperson
Barbara V. Anderson, Assistant Professor and Director, Medical Technology Program
Jerry A. Bash, Associate Professor
Manoucher Dezfullan, Associate Professor
William J. Keppler, Professor and Dean
Janet A. Lineback, 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 7 semester hours of undergraduate clinical course work 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 (not 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
Specialty Courses 9
Electives 6
Graduate Seminars 3
Thesis 6

### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MLS 5175</td>
<td>Advanced Clinical Pathology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5515</td>
<td>Advanced Diagnostic Immunology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5615</td>
<td>Research Instrumentation and Techniques in Medical Laboratory Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5785</td>
<td>Research Methods in Medical Laboratory Sciences</td>
<td>3</td>
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### Specialty Courses: Clinical Chemistry

<table>
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<tr>
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<tbody>
<tr>
<td>MLS 6645</td>
<td>Advanced Clinical Analytical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MLS 6665</td>
<td>Clinical Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5675</td>
<td>Clinical Protein Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5685</td>
<td>Therapeutic Drug Monitoring and Clinical Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5684</td>
<td>Metabolic Effects of Toxic Substances</td>
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### Specialty Courses: Hematology

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<tr>
<td>MLS 5328</td>
<td>Diagnostic Hematological Cytology and Cytometry</td>
<td>3</td>
</tr>
<tr>
<td>MLS 6329</td>
<td>Hematological Oncology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5345</td>
<td>Advanced Hematology/Hemostasis</td>
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### Specialty Courses: Immunohematology

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<th>Credits</th>
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<tbody>
<tr>
<td>MLS 6575</td>
<td>Advanced Blood Banking</td>
<td>3</td>
</tr>
<tr>
<td>MLS 6595</td>
<td>Advanced Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5590</td>
<td>Human Blood Group Systems</td>
<td>3</td>
</tr>
<tr>
<td>MLS 6944, 6945, 6946</td>
<td>Advanced Blood Banking Practicum I, II, III</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5585</td>
<td>Human Histocompatibility Antigens</td>
<td>3</td>
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### Specialty Courses: Clinical Immunology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MLS 5585</td>
<td>Human Histocompatibility Antigens</td>
<td>3</td>
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<tr>
<td>MLS 6180</td>
<td>Immunopathology</td>
<td>3</td>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MLS 6939</td>
<td>Advanced Topics in Medical Laboratory Sciences</td>
<td>3</td>
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### Specialty Courses: Clinical Microbiology

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MLS 6425</td>
<td>Advanced Clinical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 6468</td>
<td>Molecular Mechanisms of Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5475</td>
<td>Medical Virology</td>
<td>3</td>
</tr>
<tr>
<td>MLS 5495</td>
<td>Agents of Foodborne Disease</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives

In consultation with the advisor, the student may select a maximum of six credits outside the Department of Medical Laboratory Sciences which are not limited to but may include courses in biological sciences, chemistry, health care administration, educational methodology, computer sciences, and business administration.

### Courses Descriptions

**Definition of Prefixes**

**MLS** - Medical Laboratory Sciences

**MLS 5175 Advanced Clinical Pathology (3).** Advanced study of pathological conditions affecting the major organ systems with emphasis on clinical diagnosis using laboratory methods. Prerequisite: Graduate standing or permission of instructor.

**MLS 5328 Diagnostic Hematological Cytology/Cytometry (3).** Morphological, cytological, cytogenetic, and immunological techniques for precise and accurate blood cell identification that provide invaluable information for diagnosis, treatment and prognosis. Prerequisite: Graduate standing or permission of instructor.

**MLS 5345 Advanced Hematology/Hemostasis (3).** An advanced course dealing with a number of selected topics of current interest in clinical hematology/hemostasis. Emphasis will be placed on erythrocyte disorders and blood coagulation. Prerequisite: Graduate standing or permission of instructor.

**MLS 5425C Medical Mycology (3).** Study of the essential procedures and criteria in the identification of pathogenic fungi. Recognition of fungal contaminants commonly encountered in clinical specimens. Actinomycetes. Antifungal agents. Mycoserology. Stains, reagents, and media. Prerequisite: Graduate standing or permission of instructor.

**MLS 5425L Medical Mycology Laboratory (1).** Laboratory to accompany MLS 5425.

**MLS 5475 Medical Virology (3).** The nature of viruses and viral disease. Types of human viral infections, their detection and prevention. Current diagnostic procedures. Prerequisite: Graduate standing or permission of instructor.

**MLS 5495 Agents of Foodborne Disease (3).** Natural history of foodborne diseases. Microorganisms involved in food processing, food spoilage, foodborne illness and food intoxication. Investigation of foodborne diseases outbreaks. Prerequisite: MLS 4405 or permission of instructor.

**MLS 5515 Advanced Diagnostic Immunology (3).** A course describing the principles, performance, quality control and applications of immunological methods used in clinical laboratories and research. Prerequisite: Graduate standing or permission of instructor.

**MLS 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.

**MLS 5590 Human Blood Group Systems (3).** An in-depth study of serology, clinical relevance, immunology, genetics and the biochemistry of the human red cell, white cell and platelet antigens and antibodies. Prerequisite: Graduate standing or permission of instructor.

**MLS 5615 Research Instrumentation and Techniques (3).** This course is designed to introduce the beginning graduate student to research instrumentation and techniques in the specialized areas of the medical laboratory sciences. Prerequisite: Graduate standing or permission of instructor.

**MLS 5675 Clinical Protein Chemistry (3).** Lectures dealing with isolation and identification of clinically significant proteins and enzymes. Pathological conditions and interpretation of laboratory data. Prerequisite: Graduate standing or permission of instructor.

**MLS 5684 Metabolic 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, medico-legal 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 instructor.

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

Gail Hills Maguire, Professor and Chairperson
Reba L. Anderson, Associate Professor
Elizabeth Bloch, Instructor
Susanne D’Agati, Visiting Lecturer
Anne Dickerson, Assistant Professor
Suze Dudley, Assistant Professor
Anne H. Hull, Instructor
Susan Kaplan, Associate Professor
Barbara Kornblau, Visiting Lecturer
Patricia Scott, Assistant Professor
Ann Smith, Visiting Lecturer

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)

<table>
<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>
</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. Graduate students 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, biology lab, human anatomy, human physiology, neuroscience, and medical terminology.

These 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>
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<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>
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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 professional 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 the implications for therapy. A variety of patient populations and clinical applications will be discussed. Prerequisite: Graduate standing or permission of instructor.

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to the program or permission of instructor.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3). In depth instruction in approaches to the neurologically impaired patient. Emphasis will be on dysfunction due to stroke or head injury. Prerequisite: OTH 4422 or equivalent.

OTH 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit. Prerequisite: Majors only.

OTH 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTH 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly. Prerequisite: Aging course or work experience with elderly, permission of 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 regimen 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 the-
oral, 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.

---

**Physical Therapy**

*Awilda R. Haskins, Assistant Professor and Chairperson*

*Burton J. Dunevitz, Associate Professor*

*Leonard Elbaum, Associate Professor*

*Jennifer Lander, Associate Professor and Coordinator of Graduate Program*

*Elizabeth Revelle, Associate Professor*

*Colleen Rose-St. Prix, Assistant Professor*

*Stanley H. Wilson, 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

or

STA 6166 Statistical Methods in Research I

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design

PHT 6971 Master's Thesis

Electives

Approved out-of-department graduate level electives

Approved out-of-department graduate level research course

Course Descriptions

Definition of Prefixes

PHT - Physical Therapy

PHT 5045 Applied Educational Theory in Physical Therapy (3). The application of 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 in introduction to gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisites: 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 patient pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of treatment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy expenditures pertaining to environmental factors as long-term physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6238 Motor Development: Adult ThroughGeriatrics (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, NCUI, 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 identifi-
cation, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines theoretical bases of evaluation and treatment of the neuro-patient; includes exploration of the relationship of motor control and motor learning to current neurologic rehabilitation. Prerequisite: Permission of major advisor.

PHT 6725 Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions. Prerequisite: Permission of major advisor.

PHT 6845 Resources and Skills for the PT/PI student (3). This course focuses on the interdisciplinary team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Prerequisites: Graduate OT, PT, or Education students.

PHT 6905 Independent Study (1-3). Individually determined, research-oriented, in-depth study of a physical therapy issue. An independent study contract must be approved by the instructor. Prerequisite: Permission of major advisor and instructor.

Must be fully admitted to the graduate program.

PHT 6971 Master's Thesis (1-3). Supervised research which demonstrates the application of analytical, conceptual and technical skills to a specific physical therapy problem. Prerequisite: Permission of major advisor.

Public Health

Joseph Patterson, Professor and Director
H. Virginia McCoy, Assistant 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's 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 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, environmental 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 940-6538.

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PHC 6501</td>
<td>Health Promotion Communication Theory and Design 3</td>
</tr>
<tr>
<td>PHC 6503</td>
<td>Community Organization for Health Promotion 3</td>
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<tr>
<td>PHC 6580</td>
<td>Contemporary Issues in Health Promotion 3</td>
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<tr>
<td>PHC 6750</td>
<td>Program Development and Evaluation in Health Promotion 3</td>
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**Concentration Electives:** (6)

Select two courses from the following list:

<table>
<thead>
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<tbody>
<tr>
<td>PHC 6016</td>
<td>Social Epidemiology, Health Promotion and Policy 3</td>
</tr>
<tr>
<td>PHC 6112</td>
<td>Health Risk Appraisal 3</td>
</tr>
<tr>
<td>PHC 6150</td>
<td>Public Health Policy Analysis and Formulation 3</td>
</tr>
<tr>
<td>PHC 6311</td>
<td>Environmental Health Risk Assessment 3</td>
</tr>
<tr>
<td>PHC 6502</td>
<td>Health Promotion in the Workplace 3</td>
</tr>
<tr>
<td>PHC 6530</td>
<td>Principles of Maternal and Child Health 3</td>
</tr>
<tr>
<td>PHC 6585</td>
<td>Health Promotion in the Clinical Settings 3</td>
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</tbody>
</table>

**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)

<table>
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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHC 6111</td>
<td>Primary Health Care 3</td>
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<tr>
<td>PHC 6150</td>
<td>Public Health Policy Analysis and Formulation 3</td>
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<tr>
<td>HSA 6155</td>
<td>Health Care Policy and Economics 3</td>
</tr>
<tr>
<td>HSA 6175</td>
<td>Financial Management of Health Systems 3</td>
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**Concentration Electives:** (6)

Select two courses from the following list:

<table>
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<tbody>
<tr>
<td>HSA 5225</td>
<td>Long Term Care Administration 3</td>
</tr>
<tr>
<td>HSA 6149</td>
<td>Strategic Planning and Marketing of Health Care Services 3</td>
</tr>
<tr>
<td>HSA 6187</td>
<td>Personnel Management and Labor Relations 3</td>
</tr>
<tr>
<td>PHC 6111</td>
<td>Primary Health Care Strategies 3</td>
</tr>
<tr>
<td>PHC 6112</td>
<td>Health Risk Appraisal 3</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**Definition of Prefix**

PHC - Public Health

**PHC 6425 Legal and Regulatory Aspects of Environmental Health** 3

Prerequisite: PHC 6000.

PHC 6040 Public Health Epidemiology (3). Introduction to public health epidemiology. Focuses on the study of the distribution, determinants, and measurement of health and disease in populations, including study methods and their application to specific diseases and conditions.

**PHC 6004 Injury Epidemiology and Prevention** (3). Analyzes the impact and extent of injuries as a public health problem. Focuses on prevention, sources of data, environment, social and occupational aspects included in an epidemiological approach. Prerequisite: PHC 6000.

**PHC 6009 AIDS Epidemiology and Control** (3). Reviews the epidemiology, virology, immunology, and clinical aspects of HIV, and examines its impact upon risk groups and the responses of society to the epidemic.

**PHC 6012 Current Research in Epidemiology** (3). This course examines current areas of research in epidemiology and brings students into contact with researchers in various fields. Prerequisite: PHC 6000.

**PHC 6014 Behavioral Epidemiology** (3). This course examines human behaviors as determinants of health and disease, methods of exploring these relationships, and ways of altering risk behaviors. Prerequisite: PHC 6000.

**PHC 6015 Epidemiological Methods** (3). This course examines 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 6015 Public Health Statistics** (3). An introduction to the 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 6100 Introductory to Public Health** (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. Prerequisite: 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 specific 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 over-
view 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 re-
 sponsibilities 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 re-
 view; 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, na-
 ture, 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 Concen-
 tration or by permission of instructor.

PHC 6502 Health Promotion in the Workplace (3). Emphasis is on pro-
 gram design, management, and evaluation of health promotion in indus-
 try. Current issues on health assessment, fitness, and emotional
 stress in the workplace will be considered. Prerequisite: Health Promotion
 Concentration or permission of instructor.

PHC 6503 Community Organization for Health Promotion (3) Emphasis is
 on the diagnosis of community health problems and various organi-
 zational strategies utilized for effective solution. Review and analysis of
 community organization process; resources; and the role of health pro-
motion 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 cy-
cle 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 struc-
ture, 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 prob-
 lems and findings in health promotion content areas such as smoking,
 alcohol, and drug misuse, family health, safety, physical fitness, commu-
nicable 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, evalua-
tion designs, data collection, analysis and reporting. Prerequisites:
 PHC 6000 and PHC 6050.
### College of Health

**Dean**
- William J. Keppler

**Associate Dean**
- Sylvia Smith

**Chairpersons and Directors:**
- Nutrition and Dietetics: Susan P. Himburg
- Medical Laboratory Sciences: Patrick Shen
- Prosthetics and Orthotics: Ronald W. Spiers
- Public Health: Joseph Patterson

**Faculty**

- **Anderson, Barbara V., M.S., M.T.** (ASCP), S.B.B., (Ohio State University), Assistant Professor, Medical Laboratory Sciences
- **Anderson, Reba L., Ph.D., O.T.R./L., F.A.O.T.A.,** (University of Florida), Associate Professor, Occupational Therapy
- **Baker, Sherry, B.S., P.T.** (Florida A&M University), Instructor, Physical Therapy
- **Bash, Jerry A., Ph.D., M.T.** (ASCP), (State University of New York at Buffalo), Associate Professor, Medical Laboratory Sciences
- **Bilby, David W., B.S.C.P.** (University of Toledo), Instructor, Prosthetic Program Coordinator, Prosthetics and Orthotics
- **Curry, Katharine R., Ph.D., R.D., L.D.** (Southern Illinois University), Professor, Dietetics and Nutrition
- **D’Agati, Suzanne M.S., O.T.R./L.** (University of Florida), Assistant Professor, Occupational Therapy
- **Dezfulian, Manoucheh, Ph.D. M.** (ASCP) (University of California), Associate Professor, Medical Laboratory Sciences
- **Dudley, Suze, M.S., O.T.R./L.** (Florida International University), Assistant Professor, Occupational Therapy
- **Dunirlitz, Burton J., Ed.D., P.T.** (Nova University), Associate Professor, Physical Therapy
- **Easton, Penelope S., Ph.D., R.D.** (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition
- **Elbaum, Leonard, M.M., P.T.** (University of Miami), Associate Professor, Physical Therapy
- **Enrique, Evelyn, Ph.D., R.D.** (Purdue University), Associate Professor, Dietetics and Nutrition
- **Fisher, Karen, B.S., P.T.** (Florida International University), Instructor, Physical Therapy
- **Haskins, Awilda R., Ed.D., P.T.** (State University of New York at Buffalo), Assistant Professor and Chairperson, Medical Laboratory Sciences
- **Himburg, Susan P., Ph.D., R.D.** (University of Miami), Associate Professor and Chairperson, Dietetics and Nutrition
- **Johnson, Elizabeth M., B.S., RRA** (Florida International University), Assistant Professor and Director, Health Information Management
- **Kaplan, Susan R., Ph.D., O.T.R./L.** (University of Miami), Associate Professor and Graduate Coordinator, Occupational Therapy
- **Keane, Michele W., Ph.D., R.D.** (Florida State University), Assistant Professor, Dietetics and Nutrition
- **Keppler, William J., Ph.D. Board Certified** (University of Illinois), Professor, Medical Laboratory Sciences, and Dean
- **Klarberg, Renee, MPS, RRA,** (Florida International University), Instructor, Health Information Management
- **Lander, Jennifer, Ed.D., P.T.** (Nova University), Associate Professor, Physical Therapy
- **Lineback, Janet A., Ph.D., M.T.** (ASCP) (University of Miami), Professor, Medical Laboratory Sciences
- **Magnus, Marcia, H., Ph.D.,** (Cornell University) Associate Professor, Dietetics and Nutrition
- **Maguire, Gall H., Ph.D., O.T.R./L., F.A.O.T.A.,** (University of Maryland), Professor and Chairperson, Occupational Therapy
- **McCoy, Virginia, Ph.D.,** (University of Cincinnati), Assistant Professor, Physical Therapy
- **Michael, Patricia, M.P.H., O.T.R.** (University of Oklahoma), Assistant Professor, Occupational Therapy
- **Patterson, Joseph, Dr. P.H.** (University of California at Los Angeles), Professor and Director, Public Health
- **Revelj, Elizabeth O., Ed.D., P.T.** (Nova University), Associate Professor, Physical Therapy
- **Rose-St. Phe, Colleen MHS, P.T.** (Florida International University), Assistant Professor, Physical Therapy
- **Shen, Patrick F., Ph.D., M.T.** (ASCP) (University of Arkansas), Associate Professor and Chairperson, Medical Laboratory Sciences

**Smith, Sylvia L., Ph.D., S.M. (AAM, ASCP)** (University of Miami), Associate Professor and Associate Dean, Medical Laboratory Sciences

**Spiers, Ronald W., M.Sc., C.P.** (Strathclyde University), Associate Professor and Chairperson, Prosthetics and Orthotics

**Stempel, Robert, Dr. P.H.,** (University of California, Berkeley), Assistant Professor, Public Health

**Thompson, Thomas J., Ph.D., M.P.H.** (University of Rhode Island), Assistant Professor, Public Health

**Warden, Beverly A., Ph.D., MT (ASCP), (Northeastern University) Assistant Professor, Medical Laboratory Sciences

**Weddle, Dian, O., Ph.D., R.D.** (University of Illinois), Assistant Professor, Dietetics and Nutrition

**Wellman, Nancy S., Ph.D., R.D.** (University of Miami), Professor, Dietetics and Nutrition

**Wilson, Stanley H., M.S., P.T.** (St. Thomas of Villanova University), Assistant Professor, Physical Therapy
School of Hospitality Management

Anthony G. Marshall, Dean and Professor
Rocco M. Angelo, Associate Dean and Professor
Lee C. Dickson, Assistant Dean and Associate Professor
Ello Bellucci, Associate Professor
M. Chase Burritt, Adjunct Lecturer
Cheryl Carter, Adjunct Lecturer
Patrick J. Cassidy, Visiting Instructor
Perival Darby, Assistant Professor
Richard Donnelly, Assistant Professor
Marcel Escotier, Visiting Assistant Professor
Peter Goffe, Associate Professor
Eric Green, Visiting Assistant Professor
David Grier, Instructor
Fritz G. Hagenmeyer, Associate Professor
Albert J. Halebian, 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
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. Perl, Visiting Associate Professor
Nestor Portacarrero, Associate Professor
Roger Probst, Lecturer
Joan S. Remington, Visiting Assistant Professor
Norman H. Ringstrom, Professor
J. Kevin Robson, Associate Professor
William Stanfield, Lecturer
David M. Talley, Visiting Assistant Professor
Mary L. Tanke, Associate Professor
Andrew N. Vladimir, Assistant Professor
Jeffrey M. Wachtel, Associate Professor
Mickey Warner, 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 and closely supervised 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. Applicants must be eligible for admission to the University before admission to the School.

Each candidate for admission to the graduate program must present his or her score on the GRE or the GMAT and proof of a Bachelor's Degree from an accredited institution.

To be admitted, a candidate must have maintained a "B" average in all upper divisional work or attained a minimum score of 1000 on the GRE (verbal and quantitative aptitude sections) or attain a minimum score of 450 on the GMAT. A minimum TOEFL score of 500 is required for international applicants.

Applicants who meet admissions criteria but do not have undergraduate preparation in Hospitality Management must complete a series of undergraduate preparatory courses. Specific courses will depend upon the individual's undergraduate preparation. Twenty-four credit hours of preparatory courses normally will be required. A maximum of six semester hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

Additional information on admission procedures may be found in the Admission section of the Catalog.

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.

Master of Science in Hotel and Food Service Management

Course Requirements: (39)

HFT 5476 Feasibility Studies for the Hospitality Industry 3
HFT 5478 Restaurant Development 3
HFT 6227 Hospitality Management Training Systems 3
HFT 6246 Organizational Behavior in the Hospitality Industry 3
HFT 6296 Seminar in Hospitality Management 3
HFT 6446 Hospitality Industry Organizational 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

1 In place of the three following courses: HFT 5476 (or HFT 5478), HFT 6227 and one elective, the student may choose to complete HFT 6916 Hospitality Industry Project which
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. (S)

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 modulation 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. (S,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 an actual marketing problem which has been posed by a local operator. Prerequisite: HFT 3503. (F)

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. Corequisite: HFT 3733 or HFT 3753.

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 and HFT 3793 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,S,SS)

HFT 6225 Multicultural Human Resource Management for the Hospitality Industry (3). A study of personnel and consumer relations in the hospitality industry within a multicultural, multiracial, and multietnic society through an examination of value systems and cultural characteristics. Prerequisite: HFT 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 those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature.

HFT 6296 Seminar in Hospitality Management (3). Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the 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. (F,S,SS)

HFT 6404 Institutional and Contract Food Service Management (3). Advanced study of financial planning and operational methods used by contract food service management companies in business and industry, colleges, schools, healthcare, food service vending, etc. Prerequisite: HFT 3263.

HFT 6406 Recreational Food Service 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. Prerequisite: HFT 3263.

HFT 6446 Hospitality Industry Organizational Information Systems (3). An introduction to the general concepts and equipment that support information management by computer within the Hospitality Industry.
Data file handling and other information management techniques are stressed. Students are first required to write application programs, then to complete a series of assignments utilizing application programs relating to guest cycle management at the school's computerized property management system. (F.S.S)

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.S)

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 applications 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. (F.S.S)

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 explosion 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.S)

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. (F.S)

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator. Prerequisite: HFT 3563.

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.S)

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.S)

HFT 6916 Hospitality Industry 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.S)

HFT 6946 Graduate Internship (1-3). Structured graduate management experience in a specialized field in the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, catering management, fast food service management, and restaurant management. Report required. Prerequisite: Permission of the instructor. (F.S.S)

School of Hospitality Management

Dean
Anthony G. Marshall
Associate Dean
Rocco M. Angelo
Assistant Dean
Lee C. Dickson

Faculty
Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean
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Morgan, William J., Jr., Ph.D. (Cornell University), Professor, Management
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Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management
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Warner, Mickey, Ed.D. (Florida International University), Associate Professor, Food Management
White, Theodore, B.S. (Florida International University), Lecturer, Club Management
School of Journalism and Mass Communication

J. Arthur Heise, Professor and Dean
Lillian Lodge Kopenhaver, Professor and Associate Dean
Debra Miller, Assistant Professor and Assistant Dean
William Adams, Associate Professor
Gerardo Bolanos, Regional Director, Central American Journalism Program
James E. Couch, Associate Professor
Humberto Delgado, Associate Professor
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Mel Stein, Creative Director-in-Residence
Lorna Veraldi, Assistant Professor
Jack Virtue, Associate Executive Director, CAJP
Ana Cecelia Whitt, Coordinator, CAJP
William F. Wright, Associate Professor
Kak Yoon, Assistant Professor

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 specializations in print journalism, student media advising 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.
      Graduate Record Examination (GRE): The GRE is optional but required for international students. The faculty will consider the following GPA requirements in making this determination:
      b. Professional experience in a field directly related to the specialization the student plans to pursue is an advantage. Applicants without such professional experience may be required to complete up to 9 credits of additional undergraduate coursework or to complete an internship with a professional organization. After an interview with the faculty advisor of the respective sequence, the student will determine the amount of undergraduate work and the undergraduate courses to be completed.
      c. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
      d. Competence in the fundamentals of statistics is required. This can be demonstrated by students showing that a course has been taken in statistics before registering for MMC 5445. A student who has not taken a statistics course must then one from the SJMC approved list.

   e. Students must also, as a part of the admissions process, complete a one-hour writing sample on a date announced by the SJMC and complete an oral interview with the appropriate sequence coordinator.
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 sequence coordinator 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 credit 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 those credits have to 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, in all areas of specialization, must take 12 semester hours in the following core courses:

- MMC 6402 Theories of Mass Communication 3
- MMC 5445 Applied Research Methods in Media 3
- MMC 6635 Contemporary Issues in Mass Communication 3
- MMC 6950 Professional Project 3

Journalism
The master's degree in journalism is for those who wish to develop advanced journalistic skills as reporters for newspapers, wire services, magazines, radio and television. Courses in the sequence, plus an outside concentration, permit the student to develop a specialization in one aspect of journalism.

Students pursuing the sequence in journalism may be mid-career professionals; may have a communication undergraduate degree but no professional experience; or may have an undergraduate degree in another discipline and no professional journalism experience.

Students in the last category will be required to complete necessary undergraduate journalism skills courses. Students in the last two categories must complete a professional internship on the undergraduate level as a requirement for the master's degree. Specific undergraduate course requirements will be determined by the journalism program coordinator.

In addition to the core courses, students must take the following courses:

- JOU 6196 Advanced Writing Techniques 3
- JOU 6197 Advanced Reporting Techniques 3
- JOU 6198 Advanced Public Affairs Reporting 3
- JOU 6199 Judicial System Reporting 3
- JOU 6931 Seminar on Special Topics 3

Student Media Advising
Designed primarily for journalism teachers and/or student media advisors on all levels, the program will train teachers/advisers or those aspiring to the profession in areas related to everyday work.

In addition to the core courses, students in the student media advising sequence must take the following courses:

- JOU 5806 Student Media Advising 3
- MMC 5207 Ethical and Legal Foundations of the Student Press 3
- VIC 5203 Trends in Graphic Design 3

Students must also take two additional three-credit graduate courses in the School of Journalism and Mass Communication in an appropriate area of emphasis. Courses must be approved by the student's advisor.

Public Relations
In addition to the core courses, students in the public relations sequence must take the following courses:

- PUR 5406 Multi-Cultural Communications 3
- PUR 5607 Public Relations Management 3
- PUR 5806 Public Relations Strategy, Planning, and Evaluation 3
- PUR 6935 Advanced Public Relations Seminar 3

Students must take one additional three-credit graduate course in the School of Journalism and Mass Communication in an appropriate area of emphasis. Courses must be approved by the student's advisor.

The objective of the Professional Certificate in Spanish Language Journalism is to develop skills and techniques that will allow working journalists to be more responsive to the demands of their profession as well as the opportunity to become more familiar with Spanish-language journalism in general. The focus of the program will be on reading, writing, and thinking. All courses will be taught in Spanish. Some courses may be offered off campus.

Certificate Program

Spanish Language Journalism
The objective of the Professional Certificate in Spanish Language Journalism is to develop skills and techniques that will allow working
journalists to be more responsive to the demands of their profession as well as the opportunity to become more familiar with Spanish-language journalism in general. The focus of the program will be on reading, writing, and thinking. All courses will be taught in Spanish. Some courses may be offered off-campus.

All applicants must have successfully completed at least two years of college-level courses, and be practicing journalism for at least two years. Students must be admitted to the program by invitation of the chairman of the Coordinating Committee of the Certificate Program. The program coordinator will serve as the faculty advisor.

Students who qualify for admission to the master's degree in mass communication program will be able to transfer up to nine appropriate graduate credits from the certificate program.

Student Media Advising Certificate Program

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 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 635S Advertising and Society (3).** The relationship between advertising, economic, political, moral, and ethical issues.

**ADV 6805C Advanced Creative Strategy and Tactics (3).** Writing and visualization relevant to developing creative strategies for different media, clients and campaigns.

**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, point of view. Prerequisite: Graduate standing.

**JOU 6197 Advanced Reporting Techniques (3).** Intensive instruction in how to find accurate and printable facts, with emphasis on use of public records. Prerequisite: Graduate standing.

**JOU 6198 Advanced Public Affairs Reporting (3).** A journalist's examination of how to report urban government and the forces shaping public policy and decision-making. Prerequisite: Graduate standing.

**JOU 6199 Judicial System Reporting (3).** A journalist's examination of the judicial system, from police headquarters to the courtroom. Prerequisite: Graduate standing.

**JOU 6931 Seminar on Special Topics (3).** Instruction in specialized areas of journalism.

**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 design, execution, and utilization of research studies by media practitioners with special emphasis on original proprietary studies.

**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 impacting 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. Special emphasis on explaining, measuring and reporting the impact of mass communication. Prerequisite: Graduate standing.

**MMC 6635 Contemporary Issues in Mass Communication (3).** Contemporary issues regarding mass communication 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 Core, Sequence Courses and Electives.

**PUR 5406 Multi-Cultural Communications (3).** Explores the multi-cultural dimensions of communications with diverse audiences in the United States and abroad. Prerequisite: PUR 3000, PUR 4800 or permission of instructor.

**PUR 5607 Public Relations Management (3).** Operations and objectives of organized public relations activities and programs. The role of management in corporate and agency public relations and policy formulation in the public process. Prerequisites: PUR 3000 and PUR 4100 and PUR 4800 or permission of instructor.

**PUR 5806 Public Relations Strategy, Planning and Evaluation (3).** Advanced study in evaluating public
relations effectiveness, measurement and interpretation of public attitudes, and development of campaign strategies. Prerequisite: PUR 3000, and PUR 4800 or permission of instructor.

PUR 6935 Advanced Public Relations Seminar (3). A series of case studies immerses students in the applications of public relations theory/principles to practice. A variety of different public relations fields will be studied. 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 6468C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

RTV 6937 Seminar in Telecommunication Policies and Planning (3). Introduction to national and international telecommunication policies, with emphasis on planning and decision making. 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 Heise
Associate Dean, Lillian Lodge Kopenhaver
Assistant Dean, Debra Miller

Faculty

Adams, William, M.A. (University of Wisconsin-Madison), Associate Professor, Journalism and Mass Communication

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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

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

Martinson, 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, Central American Journalism Program

Rose, Patricia, M.B.A. (University of Miami), Associate Professor, Journalism and Mass Communication

Ruttenberg, Robert, M.A. (New York University), Associate Professor, Journalism and Mass Communication

Stein, Mel, B.A. (Hofstra College), Lecturer/Creative 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, Central American Journalism Program

With, Ana Cecilia, B.A., (University of Costa Rica), Coordinator, Central America Journalism Program.

Wright, William, M.A. (Pennsylvania State University), Associate Professor, Journalism and Mass Communication

Yoon, Kak, Ph.D. (Michigan State University), Assistant Professor, Journalism and Mass Communication
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 individualization of learning experiences, electives, thesis, and the opportunity to investigate an area of interest in advanced study.

The curriculum model allows students to enroll on a full-time or part-time basis. The duration for the individual student study plan is determined in consultation with a faculty advisor and is based on the student’s background and goals. The program can be completed in four semesters of full-time study, averaging a load of 9-12 credit hours per semester. Part-time study can be completed in a variable time but not to exceed six years.

Program Objectives

Upon completion of the MSN program, graduates will be able to:

1. Provide comprehensive, specialized quality care to clients in various settings, incorporating theories and advanced knowledge into nursing practice.

2. Utilize appropriate teaching, management, consultative, and advanced clinical skills in the exercise of professional responsibilities.

3. Integrate developmental, ethnocultural, socioeconomic, biophysical, and psychosocial concepts in advanced professional role performance.

4. Investigate clinical problems and test theory, contributing to the theoretical basis of nursing and the specialty area.

5. Function as a leader and change agent in the health care and professional arena, enhancing improved delivery of health care and influencing health policy.

6. Demonstrate leadership in the development and implementation of professional standards and conduct.

Graduates are qualified to apply for ARNP licensure in Florida and are prepared to apply for ANA certification as a practitioner or a clinical specialist in the chosen specialty area of adult health or child 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.

4. Have evidence of a current RN licensure in Florida.

5. Have at least one year experience of clinical nursing.

6. Have completed an introductory course in statistics (3 credits), basic health assessment course (3 credits), and computer application (word processing).

7. Have obtained a combined score of at least 1000 on the verbal and quantitative scales of the Graduate Record Examination, if the student’s undergraduate (BSN) cumulative GPA is below 3.0. Otherwise, the applicant must have obtained a combined verbal and quantitative score of at least 800.

8. Provide the following:

   a. Statement of philosophy of nursing and professional goals.

   b. Letters of reference from: 1) a previous nursing faculty; 2) a current immediate supervisor; and 3) a co-worker.

9. For international students (graduates of foreign nursing schools) only:

   a. TOEFL score of at least 500 if not licensed as a registered nurse (RN) in Florida.

   b. CGFNS certification or Florida RN license.

Application Process

Applicants need to complete the following steps in order to be considered for admission:

1. Complete two application forms as indicated and return to the appropriate offices to avoid unnecessary delay in the review process.

   a. Application for Admission to Graduate Studies - To be returned with a $20.00 nonrefundable service fee to: Office of Admissions, Florida International University, North Miami Campus, ACII-160, North Miami, Florida 33181.

   b. Application for Admission to the Master of Science in Nursing Program - To be returned to: The Graduate Program Office, FIU School of Nursing, North Miami Campus, ACII-203, North Miami, Florida 33181.

   c. Request an official transcript of records from each college or university attended. Transcripts should be sent directly to the Office of Admissions.

   d. Send three reference letters directly to the Associate Dean, FIU School of Nursing Graduate Program.

   e. Participate in an interview with a faculty member teaching in the graduate program. The interview is for the purpose of verifying application materials, reviewing admission criteria, identifying deficiencies and transferable credits, as well as projecting a tentative plan of study. The applicant should take an active role in the interview process to be informed about the program and the basis for the admission criteria.

Degree Requirements

1. Completion of 42 semester credit hours. Minimum of 36 hours in nursing and 3 hours of non-nursing electives. The required non-nursing electives are restricted to supporting courses for the specialty area or the functional role.

2. Completion of a thesis (6 hours) or a master’s paper (3 hours). Students electing a master’s paper must complete an additional three hours of cognate course(s).

3. Achievement of an overall cumulative GPA of 3.0 or above. A cumulative GPA of less than 3.0 will place the student on probation for one semester, and she/he may be subject to dismissal if the 3.0 GPA requirement is not met after the probationary period.

4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the
grade is 'C' or below will not count toward satisfying graduate degree requirements.

Students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the adviser.

**Master of Science in Nursing Curriculum**

**Core Courses (12)**
- 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 Quality Assurance 3

**Semester I**
- NGR 5035C Advanced Client Assessment 3
- NGR 5110 Theories in Nursing 3
- NGR 6201 Advanced Adult Health Nursing I 3
- NGR 6210L Advanced Adult Health Nursing Practice I 3

**Semester II**
- NGR 5604 Culture and Advanced Nursing Practice 3
- NGR 5810 Research Methods in Nursing 3
- NGR 6202 Advanced Adult Health Nursing II 3
- NGR 6211L Advanced Adult Health Nursing Practice II 3

**Semester III**
- NGR 6970 Master's Thesis I 3
- NGR 6726C Nursing Management 3
- NGR Nursing Elective 3

**Semester IV**
- NGR 6971 Master's Thesis II 3
- NGR 6710C Role Synthesis in Advanced Nursing Practice 4
- NGR Nursing Elective 3

**Sample Program Progression Plan (Part-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

**Semester III**
- NGR 6201C 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

**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 3
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: Departmental permission.

NGR 5110 Theories in Nursing (3). Analysis, evaluation, and application of nursing theories to practice, research, education and administration. Prerequisites: Departmental permission.

NGR 5250 Physical Change and Healthy Aging (3). Course focuses on 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 I (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 6210L. 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. Prerequisite: NGR 6202.

NGR 6300 Advanced Child Health Nursing I (3). Development of a conceptual model for nursing of children and families, increasing the breadth and depth of students' theoretical foundation unique to the specialty area. Prerequisites: NGR 5110 and NGR 5035.

NGR 6301L Advanced Child Health Nursing Practice I (3). Application of a conceptual model for advanced nursing practice focusing on health states and adaptive alterations of children observed in primary care settings. Prerequisite: Advanced Child Health Nursing I.

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. Prerequisite: Advanced Child Health Nursing I. Corequisites: NGR 5604, 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. Prerequisite: NGR 6303.

NGR 6333 Conceptual Issues in Nursing Management of Developmental Disabilities (3). Study of developmental theories, concepts and research findings in context of nursing model. Problems relevant to nursing intervention are examined through critique of pertinent literature. Corequisites: Admission to graduate studies and departmental permission.


NGR 6504 Advanced Psychiatric-Mental Health Nursing II (3). Development of inductive-deductive approach to theoretical understanding of person-environment patterns in multigenerational and multicultural population. Clinical specialist as therapist and manager. Prerequisites: NGR 6503L and NGR 5810.

NGR 6507L Advanced Psychiatric-Mental Health Nursing Practice II (3). Application of the nursing process with clients presenting complex problems or in high risk situations. Collaborative process in therapy and consultation, and planned change. Corequisites: NGR 6504.

NGR 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.

NGR 6710L Role Synthesis in Advanced Child Health Nursing Practice (4). Intensive practicum with a diverse pediatric client population synthesizing theory, practice, and research. CNS role developed through mentorship. Emphasis on leadership, decision-making, planned change, and skills. Prerequisite: NGR 6302L.

NGR 6712L Role Synthesis in Nursing Administration (4). Intensive practicum applying leadership, decision-making, management, and administration theories and con-
cepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6725 and NGR 6211L, or NGR 6507L or NGR 6302L.

NGR 6710 Role Synthesis In Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6713 Curriculum Development In Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission.

NGR 6725 Issues and Strategies of Nursing Administration (3). Analysis of issues, principles, and concepts of nursing administration. Includes synthesis of behavioral and organizational theories with institutional goals in formulation of administrative strategies. Prerequisites: Graduate standing and departmental permission.

NGR 6726C Nursing Management and Quality Assurance (3). Role of nurse managers in developing and implementing 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. Prerequisites: NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6970 Master's Thesis I (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Completion of a research project for non-thesis students. Prerequisite: NGR 5810 and NGR 6211L or NGR 6507L or NGR 6302L.

NGR 6971 Master's Thesis II (3). Implementation through completion of student's research thesis proposal. Prerequisite: NGR 6970.

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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**

Belock, Shirley A., ARNP, Ed.D.

(Nova University), J.D. (University of Miami), Professor

Biais, Kathleen, RN, Ed.D. (Florida Atlantic University), Associate Professor and Director Broward Program

Burkett, Marjorie, ARNP, Ph.D.

(University of Miami), Assistant Professor

Canty, Janie, RN, MS (University of Miami), Assistant Professor

Ellis, Avalla, ARNP, MS (Barry University), Instructor

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

Hayes, Janice, RN, Ph.D. (Purdue University), Visiting Professor

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, M.S.N. (Barry University), Assistant Professor

Lowe, John, RN, MSN (Oral Roberts University), Visiting Instructor

Marchette, Lisa, RN, Ph.D. (University of Texas at Austin) Visiting, Associate Professor

Morris, Linda Gay, RN, MSN (Texas Woman's University), Visiting Instructor

Phillips, Suzanne, RN, Ed.D. (Florida International University), Assistant 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 Agustin, RN, Ph.D., J.D. (Loyola University of Chicago), Professor and Dean
School of Public Affairs and Services

The School of Public Affairs and Services contributes directly to the overall mission of Florida International University as a comprehensive, multi-campus, urban institution for advancing higher education, research, and service in an international community environment.

The School provides education, training, and research that responds to the professional development, problem assessment, policy formulation, and program implementation needs of individuals, public service agencies and other organizations addressing important public policy problems and issues in the state, the nation, and the Latin American regions served by the University.

The School offers degree programs of professional study which provide academic and applied courses for students interested in public and non-profit organizational needs, management, and research. The School is organized into the Departments of Criminal Justice, Health Services Administration, Public Administration and Social Work. Each of these Departments offers both the baccalaureate and master's degrees. In addition, a Doctor of Philosophy (Ph.D.) is offered by the Department of Public Administration, and a Ph.D. in Social Welfare is offered by the Department of Social Work.

Admission

Applicants to the School must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the School and Department.

Graduate Admissions Requirements

Policies on admissions and prerequisites for the graduate programs are described in the appropriate departmental sections of this catalog. At a minimum, a student planning to enroll in one of the graduate degree programs in SPAS 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 department 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 School will be assigned an academic advisor by the Department in which the academic major is desired. Continuing 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 SPAS, 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 Department Director.
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 Department.
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 Department Director to be relevant to the student's graduate program.
5. The credits are transferred 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 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.

SPAS 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 orientation, observation, and practice in the particular program specialty of Public Affairs 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 School of Public Affairs and Services, 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 departments 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 pub-
Criminal Justice

Luis Salas, Professor and Director
Robert Clark, Professor
Jose Marques, Associate Professor
Regina Shearin, Associate Professor
Robert Snow, Associate Professor
Ray Surette, Associate 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 department director. Candidates have the option of two programs of study: the thesis and non-thesis options. Those selecting the thesis option are required to complete 30 semester hours of course work and six semester hours of thesis. The non-thesis option consists of 36 semester hours of coursework. All candidates must take six core courses.

Specific Program Requirements

Six courses in criminal justice are required and the remaining courses are electives, two of which may be thesis requirements, and two may be taken outside of criminal justice if no courses have been transferred into the program from another degree program.

Core Courses: (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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>
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Electives: (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5066</td>
<td>History and Philosophy of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5216</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5235</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5286</td>
<td>Comparative Law</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5287</td>
<td>Legal Aspects of Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5525</td>
<td>Seminar in Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5605</td>
<td>Deviance and Social Control</td>
<td>3</td>
</tr>
</tbody>
</table>
and philosophical background of criminal justice is presented as a basis for a more analytical understanding of the problems and prospects of criminal justice organization, management, and behavior.

CCJ 5105 Police Organization, Behavior, and Administration (3). Analysis of the organization and administration of police departments and their effects on police behavior.

CCJ 5216 Criminal Law (3). A concentrated study of the substantive criminal law written 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 5285 Judicial Process and Policy (3). The functions, roles, and interactions of decision makers will be analyzed and evaluated. The policy decisions and processing of criminal cases within the judicial system will be examined.

CCJ 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 the punishment and/or rehabilitation of the offender.

CCJ 5288 Legal Issues for Criminal Justice Administration (3). The course will focus on a basic understanding of administrative law and procedures in the American system. Topics will include the methods and limitations of the administrative process as it is developed in the American legal system.

CCJ 5347 Correctional Intervention Strategies (3). An overview and critical assessment of treatment and rehabilitation programs in corrections, including prisons, probation and parole, halfway houses, and pre-trial programs. Relevant research will be reviewed.

CCJ 5445 Corrections and Correctional Management (3). The course focuses on current critical issues and problems in the management of adjudicated offenders in correctional systems. The organization and administration of community and institutional corrections agencies will be reviewed and their performance analyzed.

CCJ 5525 Seminar in Juvenile Delinquency (3). Focuses on the nature, scope and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, delinquency, and family law.

CCJ 5605 Deviance and Social Control (3). This course will cover the major theoretical ideas and issues 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 those differences in outcome. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

CCJ 5935 Special Topics (3). An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethnics, 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 perspective of administrative and management theory. Emphasis is upon the identification of organizational and administrative problems and their solutions.

CCJ 6477 Seminar in Information Systems (3). An advanced seminar in the survey and application of electronic data in the criminal justice system. Prerequisite: COC 3300 or permission of instructor.
Health Services Administration

David Bergwall, Associate Professor and Director
Melissa Ahern, Assistant Professor
Fred Becker, 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
Kris Siddharthan, Assistant Professor
Vandon White, Professor

The Department of Health Services Administration offers graduate and undergraduate programs leading to Bachelor's and Master's degrees in Health Services Administration.

The management of health services occurs in an environment of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. Many of the same skills needed for executive management are now also required to provide administrative leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

The graduate program provides professional education to train management executives for administration of complex health care organizations in governmental and private settings.

The Master of Health Services Administration (MHSA) provides professional education for entry management careers in health services delivery organizations. The degree addresses the theories and issues of managing complex organizations in both public and private settings. The program is organized to meet the needs of the working student. Many individuals enrolled are already employed in administrative roles in the field. While enhancing their career, they bring the wealth of their experience to the classroom.

The Master's program is designed so that full-time students may complete all course work in five semesters. The same curriculum can be completed by part-time students within three years. Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytic and policy functions of health services administration.

Since these studies provide a professional emphasis, the Department utilizes a variety of local hospitals, long-term care facilities, payment plans, mental health programs, multi-institutional corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervised field experience and a 'practical laboratory' for operational research in health services administration.

The goal of the Department of 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 Department'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 in 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 program objectives, relevance of work experience, etc. The Departmental Admissions Committee may require a personal interview as a part of the application process.

All applications for admissions should be received by the Department 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 Department 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 department 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 Department students completing the master's program are subject to graduate student regulations and degree requirements governed by the policies of the School of Public Affairs and Services 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: (61)
Core Courses required of all students: (45)

Group I
- HSA 5125 Introduction to Health Services 3
- HSA 6415 Managerial Applications of Social Determinate of Health 3
- HSC 5515 Statistical Methods for Health Services 3
- HSA 6185 Health Care Management Theory and Practice 3

Group 2
- HSA 6175 Financial Management of Health Systems 3
- HSA 6186 Organizational Behavior in Managing Health Institutions 3
- HSA 6187 Personnel Management and Labor Relations 3
- HSA 6756 Applied Program Development and Evaluation Methods 3

Group 3
- HSA 6155 Health, Policy and Economics 3
- HSA 6149 Strategic Planning and Marketing of Health Care Services 3
- HSA 6195 Quantitative Managerial and Applied Research Methods 3
- HSA 6176 Financing and Reimbursement of Health Delivery Systems 3

Group 4
- HSA 6426 Health Law and Legal Aspects of Management 3
- HSA 6717 Advanced Health Services Management and Research Seminar 3

One of the following three:
- HSA 6977 Master's Research Project or
- HSA 6875 Administrative Residency 3
- HSA 5876L Administrative Residency in Nursing Home Settings 6

Field Elective: (3)
Electives should be taken during or after Group 3 courses. One elective must be taken from the following:

- HSA 5225 Organization and Management in Nursing Home Administration 3
- HSA 6215 HMO and Ambulatory Care Administration 3
- HSA 6205 Hospital and Health Facilities 3
- HSA 6245 Mental Health Administration and Planning 3
Open Elective: (3)
Students may select an elective course from the following courses or from other units of the University (i.e., public administrative, business administration, public health, or other disciplines) with an advisor's approval.

HSA 5408 Health Service Consumer Behavior 3
HSA 5935 Special Topics in Health Services 3
HSA 6905 Independent Study 3
HSA 5226 Management in Long Term Care 3
HSA 5227 Applied Management in Long Term Care 3
HSA 5816 Practicum in Long Term Care Management 3
HSA 5455 Ethical Decision Making in Health Administration 3
HSA 5876L Administrative Residency in Nursing Home Settings 3

Nursing Home Administration
Students interested in nursing home administration and seeking licensure as a nursing home administrator in the State of Florida are advised to take the following courses within their program of study:

HSA 5225 Organization and Management in Nursing Home Administration 3
HSA 5226 Management in Long Term Care Systems 3
HSA 5227 Applied Management in Long Term Care 3
HSA 5816 Practicum in Long Term Care Management 3
HSA 5876L Administrative Residency in Nursing Home Settings 6

Administrative Residency
A three-month administrative residency in a health care organization is offered to all students. Students lacking health services administrative experience are encouraged to complete administrative residency.

The residency is considered an integral part of the educational process. It is designed to provide practical experience with the theories, concepts, and administrative skills the students acquired during the first year of academic study. The residency is normally arranged in an agency or institution compatible with the students' area of interest.

The student works full-time with the health agency during this period. The faculty supervises the student during this period.

Students must apply for the administrative residency, be approved and placed in an agency by the Department 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 5225 Organization & Management in Nursing Home Administration (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 Applied Management in Long Term Care (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.

HSA 5408 Health Services Consumer Behavior (3). Course examines the factors affecting consumer choice in the utilization of types of health services, health services delivery locations, and methods of health care delivery. Examines the role of the provider in consumer behavioral model.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision, and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency in Nursing Home Setting (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 care 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 5615, HSA 6185, or permission of instructor.

HSA 6176 Financing & Reimbursement of Health Systems (3). Financing models for health delivery systems are examined. Reimbursement strategies of medicare, medicaid and other third party payers are analyzed. Prerequisites: Accounting and microeconomics or permission of instructor.
HSA 6185 Health Care Management Theory and Practice (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 Organizational Behavior in Managing Health Institutions (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 types of 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 social and biological factors. 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 6617 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 an ongoing 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 (3). Off-campus placement in resi-
Public Administration

Harvey Averch, Professor and
Director
James Carroll, Professor
Milan Dluhy, Professor of Public
Administration and Social Work
Howard Frank, Assistant Professor
and MPA Coordinator
Jean-Claude Garcia-Zamor,
Professor
Donald Klungner, Professor and Ph.D.
Coordinator
Ralph G. Lewis, Associate Professor
Manny Lorenzo, Instructor
Carmen Mendez, Instructor
Gary Roberts, Assistant Professor
Allen Rosenbaum, Professor and
Dean
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 5716 Information Systems for Public Organizations 1
- PAD 601 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 5716, PAD 601, PAD 6706, and PAD 6053 must be taken during the first 16 credit hours of course work. PAD 5716, Information Systems for Public Organizations, is a prerequisite for PAD 6701, Quantitative Methods and Computer Skills. PAD 5256 or consent of instructor 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 Department 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 Department 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:
work, or anthropology may do so under the following the conditions:

1. A written proposal specifying outside courses and concentration rationale must be presented to the Department 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 continues the degree only after demonstrating such knowledge, in course work, in examinations, and in disciplined research. It is an intensive 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 to both. Generally applicants must have a Master's degree prior to program enrollment, though outstanding applicants may also be considered with only a baccalaureate degree. Admission is not restricted to students with prior course work in Public Administration and the Department encourages applicants with diverse academic backgrounds.

Admission into the Ph.D. program will be granted to students of superior ability who have demonstrated a record of previous academic success, good potential for continued success in doctoral studies, and a desire to prepare for a career in which scholarship, research or analysis are major elements. To document these qualities applicants must complete a university application form and submit a written personal statement concerning the reasons for pursuing a Ph.D. in Public Administration, a current resume, official GRE test scores, official transcripts of previous college course work, three recommendations using the department's recommendation form, and samples of written work. The Department may also request an interview with applicants.

Generally, an applicant is expected to have, at minimum, a GPA of 3.5 or better for all graduate coursework and a combined score of 1000 on the GRE quantitative and verbal sections. However, the admission process is competitive and the Department considers all of the evidence in the application file in making its decision. Meeting the minimum requirements does not guarantee admission and applicant's failing to meet the minimum requirements may be admitted based on other evidence of potential.

International students with a non-English native language must have TOEFL scores of 500 or above. International students with scores between 500 and 580 must take an intensive English course approved by the department during the summer prior to enrollment and must pass an oral and written English competency examination authorized by the department. Admitted students may transfer a maximum of six semester credits (not included in another degree) from other institutions toward Ph.D. degree require-
To apply for a departmental 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 at the University’s Financial Aid office of the School of 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 (26 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 and department, advisory committees chaired by a department 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, and department.

Core Curriculum: (17)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PAD 7705</td>
<td>Advanced Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PAD 7707</td>
<td>Applied Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>PAD 7026</td>
<td>Conceptual Foundations</td>
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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 Department.

Comprehensive Examination
After the completion of all course work, students will be given a written examination, or both, testing their knowledge of Public Administration and Policy Analysis and their specialization. Upon passing the components of the comprehensive examination, the student may apply for advancement to candidacy for the Ph.D. Students who fail the Comprehensive Examination twice are automatically dismissed in accord with general University policy.

Dissertation: (24)
Upon successful completion of the comprehensive examination, students select their dissertation guidance committee and begin preparation of their dissertation proposal. Upon the public defense and approval of the proposal, the student will initiate 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 department offers certificates in Human Resource Policy and Management, International Comparative Development Administration, and Public Management. Please refer to the Certificate section under the School 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-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationships 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 material to solve allocation problems in the public sector. A rigorous introduction to applied microeconomic theory is provided as well as an introduction to welfare economics. Market and government failure are analyzed as well as 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). This 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 (1). This course will provide an overview of micro-computer 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 multifaceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous coursework in analytic exercises related to students' areas of specialization. Prerequisite: 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 appropriate methodological design for addressing them. Prerequisites: PAD 6227, PAD 6229, and PAD 6205.

PAD 6225 Comparative Public Budgeting (3). Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

PAD 6227 Public Finance and the Budgetary Process (3). Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in 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 6336 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political factors influencing the implementation of public policy and programs. Prerequisite: PUB 6015.

PAD 6417 Public Personnel Administration (3). This course is designed to focus 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 Management (3). This course analyzes the four key values of social equity, political responsiveness, managerial efficiency, and employee rights and their relationship to the respective mediating functions and core personnel activities. Prerequisite: PAD 6417.

PAD 6419 Seminar in Applied Public Personnel Management (3). Analysis of advanced technique 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 5716.

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 possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 6838 Development Administration (3). The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

PAD 6839 Comparative Public Policy (3). This course addresses policy formulation and implementation as a general process of administrative action that can be investigated among the varying nation-states. It covers the differences in policy and explores patterns implicit in those differences. Prerequisite: PAD 6836 or PAD 6838.

PAD 6907 Independent Study in Public Administration (1-6). (Normally 3 credit hours) Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Department Director required.

PAD 6915 Independent Research in Public Administration (1-6). (Normally 3 credit hours) An individualized research project and report which, if feasible, should include field work with a public organization. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Department Director required.

PAD 6946 Public Administration Internship (1-6). (Normally 3 credit hours) Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. Consent of faculty advisor and Department Director required.

PAD 7026 Conceptual Foundations of Public Administration (3). This course analyzes the conceptual issues which provide the basic foundations for the field of public administration. Emphasis will be placed upon epistemological foundations and the philosophy of science and their implications for public administration as a field of study.

PAD 7055 Scope and Theory of Public Administration (3). An integrative capstone seminar in which traditional Models of Public Administration are explored and employed to analyze the structure and dynamics of public organizations and to develop alternative Models and new theoretical perspectives concerning the scope and theory of the field.

PAD 7102 Advanced Organization Theory (3). Philosophical foundations of contemporary organization theory, with emphasis on dynamic interfaces between the environmental contexts and organizations, critical analysis of both the normative and instrumental orientation of concepts, theories, models, and applications. Prerequisite: PAD 6106 or equivalent.

PAD 7257 Economic Context of Government (3). This course examines interdisciplinary approaches to collective decision making and the delivery of public goods and services. Prerequisite: PAD 5256.

PAD 7607 Legal Context of Public Administration (3). This course analyzes the administrative significance of delegation, judicial review, rule making, freedom of information and sunshine laws, legislative veto, and liability for administrators. Prerequisite: PAD 6033.

PAD 7702 Empirical Methods in Public Administration (3). An advanced research/seminar practicum focusing in the development of theoretical models relevant to public administration and analytical techniques for testing these models. Particular attention is paid to structural equation models and latent measures.

PAD 7705 Applied Quantitative Analysis (4). Application of selected multivariate statistical and quantitative models to the field of public administration. Prerequisites: PAD 6701.

PAD 7707 Advanced Applied Research Methods (4). This course will provide students with an increased understanding of concepts of research methods through applied research projects related to public policy and public administration.
Prerequisites: PAD 6701 and PAD 6706.

PAD 7980 Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in public administration. Prerequisite: Ph.D. candidacy in Public Administration.

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.

Social Work

Scott Briar, Professor and Director
L. Yvonne Bacaris, Associate Professor and Associate Dean
Beverly Black, Assistant Professor
Betty Blythe, Professor
Katharine Hooper Briar, Professor
Milan J. Dluhy, Professor of Public Administration and Social Work
Mary Helen Hayden, Assistant Professor and Director of Field Instruction
Michael Kolevzon, Professor
Rosa Jones, Associate Professor
Monte Koppel, Professor
Sanford Kravitz, Distinguished Professor of Public Affairs
Marla E. Pulg, Lecturer
Magaly Queval, Associate Professor
Antoinette Rodgers, Assistant Professor
Florence Saxford, Associate Professor
Phyllis Singerman, Instructor and Graduate Field Coordinator
Betsy Smith, Associate Professor
Karen Sowers-Hoag, Associate Professor and Coordinator Undergraduate Program
Tony Tripodi, Professor

The Department of Social Work offers graduate and undergraduate studies leading to the Master’s and Bachelor’s degrees in Social Work. The Department 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 Department offers an integrated program that leads to the degree of Master of Social Work. The program is designed to give the student professional education for the advanced practice of social work. All students will be required to acquire or to possess the common base in the areas of professional study considered essential in social work education: human behavior and the social environment, social welfare policies and services, research, and social work practice. The knowledge acquired in the professional courses will be applied in supervised field experiences in social agencies.

All students will be expected to select one of two advanced concentrations: Services to the Elderly, or Services to Children and Families, and to plan a course and field practice program that supports practice in the specialized field. With the help of the 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 Department 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 will be 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 will be 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 Flor-
ida Board of Regents and the graduate Social Work program.

In addition to the school policies governing transfer credit the following regulations apply:

The following regulations govern transfer credits:

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 Department Director for an extension of the time limit.

First Year

Required Courses: (30)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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>
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<tr>
<td>Elective</td>
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Advanced Standing

Required Prerequisite Courses: (11)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>SOW 5125</td>
<td>Human Behavior and the Social Environment III</td>
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</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>
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<tr>
<td>Elective: A Direct Practice Course</td>
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Second Year

Concentration Requirements: (30)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6243</td>
<td>Child and Family Social Policy Issues</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 6351</td>
<td>Intervention Strategies in Marriage and the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6435</td>
<td>Evaluative Research in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6655</td>
<td>Intervention Strategies with Children and Adolescents</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>
<tr>
<td>Elective</td>
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</tr>
</tbody>
</table>

Note: Students interested in administration and supervision must develop a program of studies plan with the concentration coordinator.

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 multiculturally populations and communities. Students will pursue individualized courses of study focused on an area of specialization related to the social problems and levels of intervention of particular interest to the student. Mastery of state of the art research methodologies and data analysis techniques is a key part of the program, and students will have an opportunity to conduct intervention research under the direction of experienced faculty members.

Preparation for teaching is also offered in the program.

Admission Requirements

Admission to the Ph.D. program in Social Welfare will be granted to students of superior ability who have been admitted to the graduate program of Florida International University. Applicants are required to submit:

1. A Master's degree in Social Work from an accredited school of social work, or in a closely related field.

2. An academic transcript showing superior academic ability.

3. Letters of reference from three members of the graduate faculty at the applicant's school of advanced study.

4. A personal statement of professional aims and a plan of study.

5. Evidence of research ability and potential. This may include a research paper, project, or other academic achievement that demonstrates such ability.

6. An interview with the Admissions Committee.
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 Welfare 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>Title</th>
<th>Credit Hours</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 7492</td>
<td>Research Methods in Social Welfare I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 7493</td>
<td>Research Methods in Social Welfare 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>
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<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 5105.

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 interviewing 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 opportu-
nities 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. Prerequisites: 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 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. 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 required in hospitals and communities. Focus on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisite: Graduate or senior standing.

SOW 5624 Feminist Therapy in Social Work (3). Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisite: Graduate standing or permission of instructor.

SOW 5635 School Social Work Practice (3). Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice to improve the functioning of children. Prerequisite: 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 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. Corequisite: 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 6641 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 6435 and an advanced practice course in a concentration.

SOW 6535 Field Practicum II (8). This field practicum is a 516-clock hour supervised educational experience in an agency setting designed to provide the student with an opportunity to develop and practice social work skills in the student's area of concentration. Majors only. Prerequisites: Admission to concentration, SOW 6281 and three graduate courses in concentration. Corequisites: SOW 6543, and an advanced practice course.

SOW 6543 Integrative Field Seminar II (1). This bi-weekly field seminar taken concurrently with the specialization field practicum in the concentration area requires students to analyze their field experience and integrate theory and practice. It provides the framework for a variety of settings to come together in order to provide a rich understanding of social services. Majors only. Prerequisites: SOW 5532 and SOW 5542. 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. Extensive use of video taped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisite: SOW 6351 or permission of instructor.

SOW 6646 Social Work Practice with the Elderly (3). The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society. Prerequisite: SOW 6541 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 5641 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 interventional 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 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 of the community, organizational and societal level. Prerequisite: SOW 7237.

SOW 7492 Research Methods in Social Welfare (3). Research purposes and methods concentrating on design, measurement, hypothesis testing, intervention assessment and analysis. Prerequisite or Corequisite STA 6166 or equivalent. Prerequisite
Admission to Ph.D. program or permission of instructor.

SOW 7493 Research Methods in Social Welfare II (3). This second course in a two-semester sequence focuses primarily on design, measurement, and analysis issues in ethnographic field studies, surveys and group experiments for the evaluation of intervention technology in social welfare. Prerequisites: SOW 7492, and STA 6166, or equivalent.

SOW 7494 Advanced Social Welfare Research (3). Advanced research designs and data analysis techniques for use in developing interventions in social welfare. Prerequisites: SOW 7492 and SOW 7493.

SOW 7916 Supervised Research (3). Directed experience in the conduct of research in social welfare and social work under the guidance of a faculty member. Must be taken twice for a total of six credits. Prerequisite: Completion of first year.

SOW 7935 Advanced Seminar in Social Welfare (3). Course analyzes issues of contemporary interest to the field of social welfare. Emphasis is placed on examination of issues from a multi-level perspective. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493.

SOW 7936 Dissertation Seminar in Social Welfare (3). This course focuses on helping students with the development of the dissertation prospectus. Emphasis is placed on development of an acceptable research protocol in the students' specialization area. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493.

SOW 7939 Seminar on Social Work Education (3). This seminar provides students with an understanding of trends, issues and future prospects in social work education. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493.

SOW 7980 Dissertation (3-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in Social Welfare. Prerequisite: Ph.D. candidacy in Social Welfare.

Certificate Programs

Department of 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 certificate program does not ensure admission to the Master's Degree in Criminal Justice (MSCJ) program. NOTE: Those students who apply for and are admitted to the Master of Science in Criminal Justice degree program may have their Certificate courses with a grade of B or better credited toward the Master of Science in Criminal Justice degree.

Program of Study

A total of 15 successfully completed semester hours is required for the award of the Graduate Certificate in Justice Administration and Policy Making. Students must complete their programs of study within three years from the date of their admission and receive no less than a 3.0 GPA in their program of study.

Core Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5288</td>
<td>Legal Issues for Criminal Justice Administrators</td>
</tr>
<tr>
<td>CCJ 6058</td>
<td>Theory in the Administration of Justice</td>
</tr>
<tr>
<td>CCJ 6456</td>
<td>Administration and Management of Justice Agencies</td>
</tr>
<tr>
<td>CCJ 6716</td>
<td>Planning and Program Evaluation</td>
</tr>
</tbody>
</table>

Optional Courses

Select one of the following courses: substitution may be made with the approval of the faculty adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5605</td>
<td>Deviance and Social Control</td>
</tr>
<tr>
<td>CCJ 5935</td>
<td>Special Topics</td>
</tr>
<tr>
<td>CCJ 6477</td>
<td>Seminar in Information Systems</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 3271</td>
<td>Criminal Procedure</td>
</tr>
<tr>
<td>CCJ 3290</td>
<td>Judicial Policy Making</td>
</tr>
<tr>
<td>CCJ 3291</td>
<td>Judicial Administration</td>
</tr>
<tr>
<td>CCJ 4032</td>
<td>Crime and the Media</td>
</tr>
<tr>
<td>CCJ 4252</td>
<td>Criminal Justice and the Constitution</td>
</tr>
<tr>
<td>CCJ 4280</td>
<td>Law and Criminal Justice</td>
</tr>
<tr>
<td>CCJ 4282</td>
<td>Legal Issues in Corrections</td>
</tr>
<tr>
<td>CCJ 4752</td>
<td>Legal Research</td>
</tr>
<tr>
<td>CCJ 5216</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>CCJ 5235</td>
<td>Criminal Procedure</td>
</tr>
<tr>
<td>CCJ 5286</td>
<td>Comparative Law</td>
</tr>
</tbody>
</table>

Graduate Catalog
Department of 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 Organization and Management in Nursing Home Administration 3
HSA 5226 Management in Long Term Care 3
HSA 5227 Applied Management in Long Term Care 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

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 6466 Cognitive Processes of Aging 3

Social Work Practice with Older Persons

SOW 5605 Medical Social Work 3
SOW 5845C Counseling the Elderly 3
SOW 5905 Individual Study 1-3
SOW 6245 Social Welfare Policy and Services for the Elderly 3
SOW 6247 Housing and Environmental Needs 3
SOW 6359 Social Work Treatment with Families of Elderly 3
SOW 6646 Social Work Practice with Elderly 3
SOW 6647 Advocacy in Social Work Practice 3
SOW 6649 Social Work Practice in Long Term Care and the Elderly 3

Open only to students with MSW degree or students in Master’s degree program in Social Work.

Education

ADE 5195 Designing Education and HRD Programs for Disadvantaged Adults 3

Criminal Justice

CCJ 5935 Special Topics: Crime and the Elderly 3

Department of 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 5026 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 the 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, (e.g. collective bargaining, privatization and contracting out), personnel techniques for productivity improve-
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 a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward an outside specialization in Human Resource Policy and Management. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into the MPA program.

Program of Study: (15)

The following course is required:

PAD 6417 Public Personnel Administration 3

Four of the following 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 Management 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.

ECS 5027 Economic Problems of Emerging Nations 3

Certificate in Public Management

This professional certificate program will provide students with a thorough understanding of the managerial concepts and techniques of public administration and is designed particularly for those who already have a professional field of specialization.

Admission

All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will 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 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.
School of Public Affairs and Services

Dean Allan Rosenbaum
Associate Dean L. Yvonne Bacarisse
Assistant Dean and Director of Administration and Budget Manuel Lorenzo

Department Directors:
Criminal Justice Luis Salas
Health Services Administration David Bergwall
Public Administration Harvey Averch
Social Work Scott Briar

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Klingner, Donald, Ph.D. (University of Southern California), Professor, Public Administration, and Ph.D. Coordinator
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
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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
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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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