1991


Florida International University

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

1991 – 1992 Graduate Catalog

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FIU and Florida International University are registered marks.

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

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

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

This public document was produced at a cost of $19,972 or $0.95 per copy to inform the public about University Programs.

Fees given in this catalog are tentative pending legislative action.
ACADEMIC CALENDAR 1991-1992*

Fall Semester 1991

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 11 - 12 Freshman Orientation Sessions
July 18 - 19 Freshman Orientation Sessions
July 22 - 26 Control Cards available for student pick-up.
        • Short Term Tuition Loan Applications available to students planning to register.
July 22 - 23 Freshman Orientation Sessions
July 24 - 26 Transfer Students Orientation Sessions.
July 29 - August 2 Official Registration Week (Degree-Seeking Students only) by appointment time and day.
August 5 - 9  Open Registration Week.
August 7  Last day to apply for Short Term Tuition Loans for students already registered.
August 9  Last day to pay tuition and fees to retain registered courses by 5 p.m.
        • Last day for Financial Aid recipients to validate class schedules to retain registered courses.
        • Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students already registered.
August 18  Housing Check-in 9 a.m. to 8 p.m.
August 19  Short Term Tuition Loan Applications available to students planning to register on Registration Day.
        • Transfer Students Orientation.
August 19 - 20 Freshmen Orientation Sessions.
August 21  Telephone Registration available.
August 22  Registration Day (10 a.m. to 7:30 p.m.)
August 26  Classes Begin.
        • Last day to apply for Short Term Tuition Loans for students who registered on or after Registration Day.
August 26 - 30 Registration for State Employees using fee waivers.
August 30  Last day to complete Late Registration by 5 p.m.
        • Drop/Add Period ends at 5 p.m.
        • Last day to drop courses or withdraw from the University without incurring a financial liability by 5 p.m.
        • Last day to pay tuition and fees to avoid cancellation of enrollment by 5 p.m.
        • Last day for Financial Aid recipients applicants to validate class schedules to retain registered courses on Registration Day.
August 30  Last day to sign Short Term Tuition Loan promissory notes for students who registered on Registration Day.
September 2  Labor Day Holiday (University closed).
September 6  Last day to register for the October 5th CLAST exam.
September 9 - 10 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 18  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.)
September 20  Last day to apply for graduation by 5 p.m.
        • Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 5 p.m.
October 4  Faculty Convocation.
October 5  CLAST Test.
October 18  Last day to drop a course with a DR grade by 5 p.m.
        • Last day to withdraw from the University with a WI grade by 5 p.m.
November 11  Veterans' Day Holiday (University closed).
November 28 - 29 Thanksgiving Holiday (University closed).
December 6  Classes End.
December 7 - 14 Official Examination Period.
December 17  Grades due.
December 19  Grades Mailed to Students.

Spring Semester 1992

October 1  Last day for International Students to submit applications for Spring Term admission.
November 1  Last day for admission for International Students to submit all required supporting documents for Spring Term admission.
        • Last day to submit applications for Spring Term admission (except international students).
November 12 - 15  Control Cards available for pick-up.
        • Short Term Tuition Loan and Tuition Waiver Applications available to students planning to register for Spring Term.
November 14 - 15  Freshmen Orientation Sessions
November 18  Transfer Students Orientation Session.
November 18 - 22
Official Registration Week (Degree-Seeking Students only) by appointment time and day.

December 2 - 6
Open Registration.

December 4
Last day to apply for Short Term Tuition Loans for students already registered.

December 6
Last day to pay tuition and fees to retain registered courses by 5 p.m.
• Last day for Financial Aid recipients to validate class schedules to retain registered courses.
• Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students already registered.

December 30
Short Term Tuition Loan Applications available to students registering on Registration Day.

January 2
Housing check-in 9 a.m. - 8 p.m.
• Telephone Registration available.

January 3
Registration Day (10 a.m. to 7:30 p.m.)

January 6
Classes Begin.

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

January 8
Last day to apply for Short Term Tuition Loans for students who registered on or after Registration Day.

January 10
Last day to complete Late Registration by 5 p.m.
• Drop/Add Period ends at 5 p.m.
• Last day to drop courses or withdraw from the University without incurring a financial liability by 5 p.m.
• Last day to pay tuition and fees to avoid cancellation of enrollment by 5 p.m.
• Last day for Financial Aid recipients applicants to validate class schedules to retain registered courses on Registration Day.
• Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students who registered on Registration day.

January 20
Martin Luther King Holiday (University Closed).

January 24
Last day to register for the February 22nd CLAST exam.

January 31
Last day to apply for graduation by 5 p.m.
• Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 5 p.m.

February 22
CLAST Test.

February 28
Last day to drop a course with a DR grade by 5 p.m.
• Last day to withdraw from the University with a WI grade.

March 2 - 7
Spring Break.

April 1

April 17
Classes End.
• Good Friday (No examinations or major quizzes may be given during the designated hours.)

April 18 - 19
Passover (Students who observe Passover must make arrangements with their instructors for alternate examination times. Jewish holidays begin 4 p.m. the day before the holiday and end at 7 p.m. the day of the holiday.)

April 18 - 25
Official Examination Period.

April 24 - 25
Passover (Students who observe Passover must make arrangements with their instructors for alternate examination times. Jewish holidays begin 4 p.m. the day before the holiday and end at 7 p.m. the day of the holiday.)

April 27
Commencement Exercises.

April 28
Grades due.

April 30
Grades Mailed to Students.

Complete Summer Semester 1992

February 1
Last day for International Students to submit applications for Summer Term admission.

March 1
Last day for admission for International Students to submit all required supporting documents for Summer Term.
• Last day to submit applications for Summer Term admission (except International students).

March 23
Short Term Tuition Loan Applications available to students registering for the Summer Terms.

March 23 - 27
Control Cards available for pick-up.

March 26 - 27
Freshmen Orientation Complete Summer Term and Summer Term A.

March 30
Transfer Students Orientation Complete Summer Term and Summer Term A.

March 30 - April 3
Official Registration Week (Degree-Seeking Students only) by appointment time and day.

April 6 - 10
Open Registration.

April 8
Last day to apply for Short Term Tuition Loans for students already registered.

April 10
Last day to pay tuition and fees to retain registered courses by 5 p.m.
• Last Day for Financial Aid recipients to validate class schedules to retain registered courses.
• Deadline date for 1990-1991 Financial Aid Application for priority consideration.
• Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students already registered.

'April 30
Short Term Tuition Loan Applications available to students who plan to register on Registration Day.

May 3
Registration Day (10 a.m. to 7:30 p.m.).
• Last day to register for the June 6th CLAST exam.
May 6  Classes Begin.
May 6 - 12 Registration for State Employees using fee waivers.
May 8  Last day to apply for Short Tuition Loans for students who registered on Registration Day.
May 12 Last day to complete Late Registration by 5 p.m.
   • Drop/Add Period ends at 5 p.m.
   • Last day to drop courses or withdraw from the University without incurring a financial liability by 5 p.m.
   • Last day to pay tuition and fees to avoid cancellation of enrollment by 5 p.m.
   • Last day for Financial Aid recipients to validate class schedules to retain registered courses on Registration Day.
   • Last day to sign Short Term Tuition Loan promissory notes and validate class schedules for students who registered on Registration Day.
May 25 Memorial Day Holiday (University closed).
May 29 Last day to apply for Graduation by 5 p.m.
   • Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 5 p.m.
June 6  CLAST Test.
June 26 Last day to drop a course with a DR grade by 5 p.m.
   • Last day to withdraw from the University with a WI grade by 5 p.m.
July 3 - 4 Independence Day Holiday (University closed).
August 17 Grades due.
August 19 Grades Mailed to Students.

**Summer Term A**
March 26 - 27 Freshmen Orientation Sessions.
March 30 Transfer Students Orientation Session All Summer Sessions.
May 4  Registration Day.
May 6  Classes Begin.
May 6 - 12 Registration for State Employees using fee waivers.
May 12 Last day to complete Late Registration by 5 p.m.
   • Drop/Add Period ends at 5 p.m.
   • Last day to drop courses or withdraw from the University without incurring a financial liability by 5 p.m.
   • Last day to pay tuition and fees to avoid cancellation of enrollment by 5 p.m.
   • Last Day for Financial Aid recipients to validate class schedules to retain registered courses.
May 15 Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 5 p.m.
May 25 Memorial Day Holiday (University closed).
May 29 Last day to apply for graduation by 5 p.m.
   • Last day to drop a course with a DR grade by 5 p.m.
   • Last day to withdraw from the University with a WI grade by 5 p.m.
June 6  CLAST Test.
June 23 Classes End.**
August 17 Grades Mailed to Students.

**Summer Term B**
May 29 Last day to apply for graduation by 5 p.m.
June 18 - 19 Freshmen Orientation Sessions.
June 25 Registration Day.
June 29 Classes Begin.
June 29 - July 6 Registration for State Employees using fee waivers.
July 3 - 4 Independence Day (University closed).
July 6  Last day to complete Late Registration by 5 p.m.
   • Drop/Add Period ends at 5 p.m.
   • Last day to drop courses or withdraw from the University without incurring a financial liability by 5 p.m.
   • Last day to pay tuition and fees to avoid cancellation of enrollment by 5 p.m.
   • Last Day for Financial Aid recipients to validate class schedules to retain registered courses.
July 10 Last day to withdraw from the University with a 25% refund of tuition less bonding fees by 5 p.m.
July 24 Last day to drop a course with a DR grade by 5 p.m.
   • Last day to withdraw from the University with a WI grade by 5 p.m.
August 13 Classes End.
August 17 Grades Due.
August 19 Grades Mailed to Students.

*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 13.
General Information

State Board of Education

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

Florida Board of Regents
Hon. Charles B. Edwards, Sr.  Chairman, Fort Myers
Hon. J. Clint Brown  Vice Chairman, Tampa
Hon. DuBoise Ausley  Tallahassee
Hon. Betty Castor  Miami
Hon. Alec P. Courtelis  Fort Lauderdale
Hon. Robert A. Dressier  Miami
Hon. Pat N. Groner  Pensacola
Hon. Cecil B. Keene  St. Petersburg
Hon. Perla Hantman  Miami Lakes
Hon. Thomas P. Petway III  Jacksonville
Hon. Carolyn K. Roberts  Ocala
Hon. Joan D. Ruffler  Orlando
Hon. Ross A. Wolf  Student Regent
Hon. Charles B. Reed  Chancellor, State University System

University Officials

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

Goals

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

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

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

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

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

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

Campuses

The University operates two campuses in Dade County and two educational centers in Ft. Lauderdale. 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 Northwest Biscayne Boulevard and 151st Street. Broward County area is served cooperatively by the FAU/FIU Center, located on the campus of Broward Community College in Davie and at University Tower in Fort Lauderdale.

University Park

The University Park has ten major buildings including a recently completed $12 million Engineering building, a $16 million Chemistry and Physics building, a $7 million College of Business Administration Building (under construction), and a $10 million Student Center expansion. The campus development plan envision four major expansion phases to the Library building, planned as a fourteen-story tower, beginning with the $11 million base construction in 1992; a $10 million Arts Complex to be completed in 1993; a $3 million Baseball Stadium Complex to be completed in 1993; a Student Health/Wellness Services building to be completed in 1992; Labor Studies building to be completed in 1993, a Nautlius/Fitness Center to be completed in 1992; a Biology Greenhouse and Conservatory to be completed in 1993; and major campus infrastructure improvements, including a new major campus entrance mall for Tami Trail access, scheduled for completion in late 1991.

North Miami Campus

The North Miami Campus encompasses 200 acres on Biscayne Bay, including a large natural cypress preserve. Campus facilities include six campus buildings, an Olympicstandard Aquatic Center, apartmentstyle housing for ~52 students, and the Library with a capacity of 500 seats, 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 multipurpose commercial kitchens. 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 $11 million Community Conference Center.

FIU Broward

In collaboration with Florida Atlantic University and Broward Community College, FIU faculty and administrators are working to provide a comprehensive urban university presence in Broward County. Both FIU Broward facilities are staffed to provide full student services including admissions, registration, financial aid, academic advising, student activities, and career counseling.

The University offers full degree programs and a variety of supplementary courses at two major academic centers in Broward County.

The FIU Broward Program, located in western Fort Lauderdale emphasizes undergraduate programs in cooperation with Broward Community College. Under the 2+2 program, students enroll in BCC for the first two years of university study and FIU provides the final two years and awards the bachelor's degree to graduates. The University Tower, in downtown Fort Lauderdale, serves as the administrative headquarters for the FIU Broward programs and as a major instructional facility. The University Tower is primarily utilized to provide graduate programs, research and services to residents and businesses and service industries in the area.

General Academic Information

Florida International University offers a variety of academic programs and courses 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 Nursing, and School of Public Affairs and Services.

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
- 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 Accreditation Board of Engineering and Technology
- The American Dietetics Association
- The American Medical Association
- The American Medical Record 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

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
- Hispanic Studies
- History
- International Studies
- Linguistics
- 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
- Mass Communication
- Mathematical Sciences
- Psychology
- Physics
- Doctor of Philosophy in Biology
- Computer Science
- Economics
- Psychology

College of Business Administration

- Master of Accounting
- Master of Business Administration
- Master of International Business
- Master of Science in Finance
- Master of Science in Management Information Systems
- 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
- Business Education
Counselor Education (School and Community)
Diagnostic Teaching (majors in Emotional Disturbance, Mental Retardation, and Specific Learning Disabilities)
Early Childhood Education
Educational Leadership
Elementary Education
English Education
Health Education
Health Occupations Education
Home Economics Education
Industrial Arts Education
International Development Education
Modern Language Education (majors in Spanish and French)
Mathematics Education
Music Education
Parks and Recreation Management
Physical Education
Reading
School Psychology
Science Education
Social Studies Education
Teaching English to Speakers of Other Languages (TESOL)
Vocational Education (majors in Administration, Supervision, and Technical and Vocational Education)
Education Specialist (Ed.S.)
Curriculum and Instruction
Educational Leadership
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 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)
North Miami Campus Programs
College of Business Administration
Master of Business Administration
College of Education
All College of Education programs are available. Please contact the College for additional information.
College of Health
Master of Public Health
School of Hospitality Management
Master of Science in Hotel and Food Service Management
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)
Broward County Programs
College of Business Administration
Master of Accounting (BC)
Advanced Certificate in Accounting (UT)
Master of Business Administration (BC)
Master of Science in Finance (BC/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)
Elementary Education (BC)
Courses for Teacher Education (BC)
Courses in Vocational Education (BC)
Doctor in Education in Adult Education and Human Resources Development (BC)
Doctor in Education in Community College Teaching
College of Engineering and Design
Master of Science in Construction Management (BC)
School of Hospitality Management
Courses in Hospitality Management
School of Public Affairs and Services
Master of Health Services Administration (BC/UT)
Master of Social Work (UT)
Primary Location:
BC = Broward Program - Davie
UT = University Tower - Fort Lauderdale
In addition to the degree programs, a variety of support courses are offered from the College of Arts and Sciences.
Certificates
Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.
Successful completion of a Certificate Program is entered on the student’s transcript and records. Two types of certificates are awarded:
Academic Certificate
Awarded by an academic unit to a student at the time of awarding a bachelor’s degree; or upon completion of the appropriate coursework to a student who already has a bachelor’s degree.
An academic certificate shall not be awarded to a student who does not possess either a bachelor’s degree or does not complete a bachelor’s degree program. An academic certificate is to be interdisciplinary in nature, to the greatest extent possible.
Professional Certificate
Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with an academic 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
Marine Science
Western Social and Political Thought
Women's Studies

Professional Certificates in:
Labor Studies and Labor Relations
Legal Translation and Court Interpreting
Student Media Advising
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
Management and Consumer Affairs.

College of Health
Medical Record Coding
Occupational Therapy

Prosthetics and Orthotics
School of Hospitality Management
Hotel and Restaurant Management
Travel and Tourism Management

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

School of Public Affairs and Services
Academic Certificate
Law and Criminal Justice

Professional Certificates in
Aging Policy and Administration
Gerontology
Human Resource Policy and Management
International Comparative and Development Administration
Justice Administration and Policy Making
Public Management
Public Personnel Management and Labor Relations

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 in its own country as preparing students for further study at the graduate level. 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 score of 500 or higher on the Test of English as a Foreign Language (TOEFL). For further information, refer to the International Admissions section.

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.

Proficiency in English
Proficiency must be established if the native language is not English. The following is accepted: A minimum score of 500 on the TOEFL. For information, applicants should contact: TOEFL Program, Box 899, Princeton, New Jersey 08540, U.S.A.

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 before the Certificate of Eligibility (Form I-20A) is issued.

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 Uni-
University and have the necessary support funds for the period of enrollment. Applicants should refer to the Annual Estimate of Cost Chart.

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

Refer to the Annual Estimate of Cost table for more information. A married student should plan on an additional $3,500 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than $1,800 for each child.

Health Insurance
All international students are required to purchase and maintain health insurance coverage to help defray the costs in case of catastrophic medical emergency. Coverage must be adequate to provide for costs at U.S. hospitals, usually much higher than costs in many other parts of the world. The University has approved a plan which provides coverage of most expenses and which is adequate for the needs of most students; however, a student may select alternate coverage provided it meets minimum coverage requirements. A copy of the requirements for alternate policies is available from the Office of International Services. Compliance with the insurance regulation is required prior to registration.

Application Deadlines
Please refer to the Academic Calendar for appropriate dates.

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. An undergraduate student is required to take a minimum of twelve credit hours per semester, and a graduate student 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 immigration status may be jeopardized. Full-time enrollment is defined as enrollment every term in, or a minimum of nine semester hours (graduate).

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) of the Immigration and Nationality Act. The University is required to report to the Immigration Office any non-immigrant alien student who: (a) does not register at the University at the time expected; (b) does not carry a full course of study; and (c) terminates attendance.

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

Employment
An F-1 student may not be employed off-campus while attending the University unless permission has been granted by the U.S. Immigration and Naturalization Service. Normally, employment will not be permitted, especially during the student's first year of enrollment; but under very special circumstances, due to unexpected conditions or emergencies arising after the student's arrival, an international student may be recommended for a work permit. Adequate proof must be presented to the International Student Advisor to obtain the necessary recommendation. On-campus employment not exceeding 20 hours per week while school is in session is permitted.

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.

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### Annual Estimate of Costs for Graduate International Students

<table>
<thead>
<tr>
<th></th>
<th>Single Student (24 sem hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$5,678</td>
</tr>
<tr>
<td>Maintenance</td>
<td>$9,300</td>
</tr>
<tr>
<td>Books &amp; Supplies</td>
<td>$750</td>
</tr>
<tr>
<td>Medical Insurance</td>
<td>$450</td>
</tr>
<tr>
<td>Total</td>
<td>$16,178</td>
</tr>
</tbody>
</table>

1 Tuition and fees are subject to change. Fees include the Student Health Fee ($24.50 per semester) and the Athletic Fee ($10.00 per semester). Amounts shown reflect 15 semester hours for undergraduate and 12 semester hours for graduate during Fall and Spring terms only.

2 Maintenance is estimated at $775 per month to cover room, board, clothing, transportation, and incidentals. This cost is for 12 months.

3 All international students are required to carry medical insurance.

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Credit For Non-College Learning

Graduate credit, per semester, will not normally be awarded for experiential learning.

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.
Office of Registration and Records

The Office of Registration and Records 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, off-campus registration, and graduation.

The University Park office is located in PC 130, 348-2363, the North Miami Campus office is located in AC1-160, 940-5750, and the Broward Programs at Broward Community College, Central Campus, 475-4160 and University Tower, 355-9235.

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 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 students subsequently apply for regular admission and are accepted as undergraduate or graduate students.

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

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

4. Non-degree-seeking students will not be allowed to register for more than one term without obtaining admission to a degree program at the University; obtaining admission into a formal Certificate Program; or 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 Admissions. 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 Registration and Records, PC 130, University Park; or ACI-160, North Miami Campus; or at the Broward Program, BCC Central Campus, 475-4160 and University Tower, 355-5236.

Registration for courses is as follows:

Registration Week 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 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 add or drop courses during this period.

Registration Day is held prior to the beginning of the term and is for one day only. Students who have not registered should do so at this time to avoid a 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 (Tower Trailer University Park; TC 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 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 Registration and Records 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 Registration and Records 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 Withdrawal. 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(s) 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 Registration and Records. Non-attendance or non-payment of courses will not constitute a drop. (Refer to the Academic Calendar for the deadline dates.)

The transcript record 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 record of a student who officially withdraws after Drop/Add period and before the end of the eighth week of the term will contain a ‘WI’ for each course.

The transcript record of a student who stops attending the University without officially withdrawing from the University will contain an ‘F’ 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

<table>
<thead>
<tr>
<th>Grade Points</th>
<th>Grades</th>
<th>Credit Hour</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
<td></td>
</tr>
<tr>
<td>C+</td>
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</tr>
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</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>P</td>
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</tr>
<tr>
<td>IN</td>
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<tr>
<td>WI</td>
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<td></td>
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<tr>
<td>WP</td>
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<td></td>
</tr>
<tr>
<td>WF</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>AU</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>DR</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>
DP Dropped after deadline with passing grade N/A
DF Dropped after deadline with failing grade 0
NR Grade Not Reported or Invalid N/A
EM Examination N/A

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

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

Grading Options
The Colleges and the Schools make the determination of the grading option of each course. A course may be offered for a letter grade as listed above or Pass/Fail; or for an optional grade in which the student has a choice of either receiving a letter grade or pass/fail; or the student may choose to audit a course and an 'AU' grade will be recorded on the student's records. 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.

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 Registration and Records. The form must be submitted no later than one year after the semester in which the grade was received. 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 used 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 who 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, register, and pay for the courses in the regular manner. 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 incomplete and NRs, which default at the end of two terms) are final and are subject to change only through a Change of Grade Form to correct an error in computation or transcription, or where part of the student's work has been unintentionally overlooked.

Final Examinations
Final course 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 Registration and Records mails each registered student a copy of his or her end of term grades.

Application for Graduation
Each student who plans to graduate is required to submit to the Office of Registration and Records an Application for Graduation form. This form, supplied by the Office of Registration and Records, must be submitted before the end of the third week of classes of the academic semester in which graduation is expected. A student 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 Registration and Records.

A student denied graduation must complete the remaining requirements needed for graduation and must reapply for graduation.

Academic Warning, Probation, and Dismissal

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

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 appropriately communicate 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 Re-admission) to the University in the same or a different program, or register as a non-degree seeking student. There are no exceptions to the one year waiting period.

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 Registration and Records 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;
3. Performance of services which benefit students.

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

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

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

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

Students have a right to challenge the correctness of their educational records and may file written requests to amend these records. The Office of Registration and Records (PC 130) may be contacted for further information regarding the procedure to follow in filing complaints.

For complete information regarding the policies outlined above, please contact:
Registrar
Office Registration & Records
PC 130
Florida International University
University Park
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 whether the courses are in the major program or not. Once a baccalaureate, master’s, or doctorate degree is earned, the GPA recalculation starts again.

A student must request his or her transcript in writing. There is a processing period. The transcript will not be released if the student has a University financial liability.

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

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.

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

<table>
<thead>
<tr>
<th>Rate of Payment</th>
<th>Number of Dependents</th>
</tr>
</thead>
<tbody>
<tr>
<td>For rate of monthly payment of educational allowances for veterans and dependents, please contact Office of Veteran’s Affairs.</td>
<td></td>
</tr>
<tr>
<td>For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs at University Park, PC 130, 348-2838.</td>
<td></td>
</tr>
</tbody>
</table>

Status Certification
The Veterans Affairs Office also verifies the school status of all past and present students for purposes of Social Security, tuition reimbursement, employment, and loan deferrals.
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 twelve 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 domicile rather than for the purpose of maintaining a mere temporary residence. Abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify).
3. Submit the following documentation (or in the case of a dependent student, the parent must submit documentation) prior to the last day of registration for the term for which resident status is sought:
   a. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:
      (1.) Declaration of Domicile.
      (2.) Proof of purchase of a home in Florida which the student occupies as his or her residence.
      (3.) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment record).
   b. Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which resident status is sought):
      (1.) Declaration of Domicile.
      (2.) Florida Voter's registration.
      (3.) Florida Driver's license.
      (4.) Proof of real property ownership in Florida (e.g., deed, tax receipts).
      (5.) Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.
      (6.) Proof of membership in or affiliation with community or state organizations or significant connections to the State.
      (7.) Proof of continuous presence in Florida during the period when not enrolled as a student.
      (8.) Proof of former domicile in Florida and maintenance of significant connections while absent.
      (9.) Proof of reliance upon Florida sources of support.
      (10.) Proof of domicile in Florida of family.
      (11.) Proof of admission to a licensed practicing profession in Florida.
      (12.) Proof of acceptance of permanent employment in Florida.
      (13.) Proof of graduation from high school located in Florida.
      (14.) Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual.
   c. No contrary evidence establishing residence elsewhere.
   d. Documentation of dependent/independent status (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 twelve-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-established domiciliary status and re-enrolled within a period of twelve 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, 348-2431; and ACI-160, North Miami Campus, 940-5765.

Loans
Perkins Loan (formerly NDSL): This is a federally funded loan in which graduate students are allowed to borrow a maximum of $18,000 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. The repayment period begins at 5% interest nine months after the student ceases enrollment 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 may also 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 (formerly Guaranteed Student Loan): This federal loan program enables students to borrow directly from either a bank, a credit union, a savings and loan association, or other participating lenders to help fund their post-secondary education. 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%.

Depending on the student's need, graduate students may borrow up to $7,500 a year. The aggregate amount that graduates may borrow is $54,750, including any Stafford loans received at the undergraduate level.

Loan repayments begin six to nine months (depending on the interest of the loan) after the student graduates, leaves school, or drops below half-time status.

(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, and other participating lenders. SLS and PLUS loans are disbursed on or after July 1, 1988, will have a variable interest rate, adjusted each year. The interest rate for the 91-92 award year will be determined in June 1991.

PLUS enables parents to borrow up to $4,000 per year, to a total of $20,000, 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 $4,000 per year, to a total of $20,000. This amount is in addition to the GSL.

PLUS and SLS borrowers do not have to show need, although 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 paid 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 be admitted to a degree program, be enrolled on a full-time basis, and have no outstanding debts to 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. 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 CWS 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.

**College Work Study (CWS):** 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 CWS 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 to receive Federal assistance, students must:

1. Be enrolled in an eligible program of study.

2. Be U.S. citizens; U.S. nationals; or U.S. permanent residents or reside in the United States for other than a temporary purpose (supportive documentation is required to verify residency or citizenship status).

### 5% Perkins Loans Repayment Chart

<table>
<thead>
<tr>
<th>Amount Borrowed</th>
<th>Monthly Payments</th>
<th>Total Amount Monthly Payments</th>
<th>Number of Final Payment</th>
<th>Total Interest</th>
<th>Amount Repaid</th>
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<td>$500.00</td>
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<td>$120.00</td>
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</tr>
</tbody>
</table>
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, or 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 file a Need Analysis Form (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 accord with various criteria such as: outstanding academic potential and prior achievement, demonstration 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. Student aid 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 studies and living costs. Student financial support is also provided by external agencies. For example, the Florida Endowment Fund provides doctoral 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 Scholarship: Available for full time graduate students with a 3.5 GPA or higher and financial need.

Felix Memorial Scholarship: Available to graduate music majors with financial need. Contact the Music Department at 348-2696.

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

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.

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 any public high school in the Hialeah, Miami Springs, Miami Lakes, Medley, and Virginia Gardens communities 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. Minimum 3.0 G.P.A.

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.

Pearce Memorial Scholarship: Available to students majoring in Biological Sciences or Environmental Studies who are interested in Plant Science.

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 April 1 of the year preceding the academic year of enrollment.

Need Analysis Document: Students interested in all forms of aid must complete the Florida Financial Aid Form (FAF) and mail it to College Scholarship Service (CSS). The CSS will perform a need analysis based on the information provided on the FAF and send a copy 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 and students who claim to be independent and are under 24 years of age must submit an official (signed) copy of their (and spouse) previous year Income Tax Return (1040, 1040A, or
General information / 17

1040EZ) to the Financial Aid Office. An official (signed) copy of their parents' tax return will also be required. 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 and SLS Applicants: A separate application is required in addition to the other documents. The Financial Aid Office will mail all completed loan applications directly to the student. Unless the applicant specifies a particular lender, he/she must make their own contacts with lenders regarding the completed application.

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 15 days or make an appointment with a financial aid officer to discuss any concerns he/she may have. If the student fails to do this, 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 do this will result in the cancellation of all classes for the semester.

Financial aid checks will generally be available 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 student financial aid (Pell Grant, Supplemental Educational Opportunity Grant, College Work Study, Perkins Loans, Stafford Student Loan/PLUS Loan, SLS Loan, 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 issued warnings, 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, they 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 in the financial aid award and how the need was determined.
5. The refund and payment 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 pro-rated 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 Perkins Loan or Stafford Student 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 1990-91 credit hour fee schedule is as follows:

Credit Hour Fees

<table>
<thead>
<tr>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$41.92</td>
</tr>
<tr>
<td>Graduate, Thesis</td>
<td>$74.63</td>
</tr>
<tr>
<td>or Dissertation</td>
<td></td>
</tr>
<tr>
<td>Student Fees</td>
<td>$10.00</td>
</tr>
<tr>
<td>Health</td>
<td>$24.30</td>
</tr>
</tbody>
</table>

The Health and Athletic fees are non-refundable fees assessed each term.

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

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

Fee Waivers
Students using a fee waiver as part of the fee payment must present the original and the student copy to the Cashier’s Office at the time of payment, on or before the last day to pay fees. Students who are responsible for a portion of their fees in addition to the fee waiver will be required to pay their portion before the fee waiver is applied.

University and State employees using the State employee fee waiver to pay their fees must register on or after the day established in the official University calendar for State employee registration. A properly completed and approved waiver form must be presented at the Cashier’s Office by the date published for the last day to pay fees. 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 Office 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/Payment Fee
Students who register or pay after the published deadline for fee payment will be subject to a Late Fee. The amount of the fee will be published in the schedule of classes for each semester.

Florida Prepaid Tuition Plan Students
All students planning to register under the Florida Prepaid Tuition Plan must present their FFTP 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 right drop or by mail, but must be done in person.

Fee Liability
A student is liable for all fees associated with all courses in which he/she is 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 University by the time specified on the cancellation notice. Each request will be evaluated by the Reinstatement Appeals Committee. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. The decision of the committee is final and all reinstatement activity, including fee payment, must be completed prior to the end of the fourth week of classes. The late registration/payment fee is applicable to all reinstatement approvals.

Application Fee
A non-refundable fee of $15 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 to the vehicle. The decal is required for all vehicles parking on campus. Parking and traffic regulations are strictly enforced.

Other Fees

<table>
<thead>
<tr>
<th>Library Fines</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Per book per library hour</td>
<td>.25</td>
</tr>
<tr>
<td>Maximum fine per book</td>
<td>$5.00</td>
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<tr>
<td>Lost book fine</td>
<td>$35.00</td>
</tr>
<tr>
<td>Intern Certificate of Participation</td>
<td>Per credit hour</td>
</tr>
</tbody>
</table>

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, except the health and athletic 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 (except the health and athletic fees) 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 (except the health and athletic fees) 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 plans and administers 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. 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, Center on Aging, Center for Economic Education, Institute for Judaic Studies, and Women's Studies Center refer to the Center and Institute Section.

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 promulgated:

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 in no way penalize students arbitrarily who are absent from academic or social activities because of religious observances.

Office of Undergraduate Studies
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 awards and the University Honors Program; and ROTC. The office is located in PC 115, University Park, 348-2099; and ACI-180, North Miami Campus, 940-5754.

**Division of Graduate Studies**

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

The Division 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 Division of Graduate Studies is responsible for: (1) the direction and support of all University graduate programs; (2) the development and compliance with University graduate policy, procedures, and planning; (3) graduate financial aid, acquisition and distribution; (4) University faculty felleate linkages for development support and productivity; (5) graduate program external advisory councils; (6) graduate program review and accreditation; (7) budgetary support and facilities for graduate programs; and (8) 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 Division 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.

Graduate students seeking information on general graduate policies and procedures, or instructions on preparing and filing the thesis or dissertation, should contact the Division of Graduate Studies in PC 520, University Park, or call 3482455 for an appointment.

**Libraries**

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

The total library collection comprises 900,000 volumes, in addition to substantial holdings of federal, state, local, and international documents; maps; microforms; music scores, newspapers, institutional archives; and curriculum materials. The Library subscribes to 7,075 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 facsimile 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 Production Centers* are "do-it-yourself" media and graphic arts production labs, providing technical assistance to faculty, staff and students in the creation of visual aids such as slides, overheads, flyers, posters and charts for classroom presentations, papers or projects. Professional help and instruction is available on the premises in the use of Macintosh computers, letter machines, copystand cameras, overhead-makers, laminators, etc. While consumable items such as films, posterboard and transparencies are to be provided by students, there is no fee for either the help provided or the use of the facilities. (AT-134 at University Park; LIB-150 at North Miami).

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

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

Instructional Television Production produces instructional media programs (video and audio recordings, both in-studio and remote, teleconferencing, and multi-media programs) for faculty and staff. (VLI-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; services available to all FIU campuses).

(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; the rental of films for classroom viewings; 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
Carolann 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 non-credit learning opportunities through the Division of Continuing Education. Courses of instruction are developed and offered in a variety of formats. These include conferences, seminars, short courses, workshops, lecture series, certificate programs and courses for academic credit. Learning opportunities are made available at locations throughout Dade, Broward and Monroe counties, the University's campuses and abroad through special arrangements. 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 the following programs: Off-Campus and Weekend Credit Courses and Conferences and Short Courses.

Off-Campus and Weekend Credit Courses
Over 230 courses for academic credit are offered off-campus and on weekends each year through the University's eight 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 contract 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.

For information on how to request a course or to find out more about educational opportunities available through the Department, call 940-5653 in Dade, and 463-2790 in Broward.

Conferences and Short Courses
Noncredit programs to develop professional competence, increase business skills, and provide personal enrichment are offered through short courses, workshops, seminars, and certificate programs. Local, regional, national and international conferences are coordinated in conjunction with the University's goals and objectives.

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, at the above locations, or at the first session of each program on a space available basis.

Certificate Programs
Legal Certificate Programs
Included are the Legal Assistant (Paralegal), Advanced Legal Assistant Studies, 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 workshops, 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.

Continuing Legal Education for Attorneys (CLER)
Seminars focusing on substantive and nonsubstantive topics, approved by the Florida Bar Association for CLER credit are presented in half-day or full-day format. Instructors are University faculty, and professionals in various disciplines.

Professional Education for Realtors and Brokers
Issues of current interest to real estate professionals are presented in seminars approved by the Florida Real Estate Commission (FREC) for continuing education credit.

Certificate for Professional Travel Agents
This comprehensive six-month course develops skills 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.

Video Production Certificate
In conjunction with the School of Journalism and Mass Communication, the Division offers the Certificate in Video Production. Hands-on exercises lead students through all major phases of video production. The program provides preparation for the fields of broadcasting, instructional video, corporate video, and applications in advertising and public relations.

Marketing Communication Certificate
Marketing Communication is designed for individuals who seek a career or wish to develop specific skills for current or prospective employment in the field.

Designed for marketing support staff, designers wishing to expand their base of knowledge, employers assigned to MARCOM tasks, home and small business owners who need greater proficiency in these areas, and government and non-profit employees who are communicating with the public. The courses cover well at work, graphic design and marketing strategies. Any of the courses may be taken for regular continuing education units.

This certificate program recognizes that students come from varying back-
grounds. It is organized to help strengthen specific areas of expertise.

**Independent Study by Correspondence**

The State University System offers a program of over 140 courses with instructors drawn from the University of Florida, Florida State University, and the University of South Florida. The program is administered by the Department of Independent Study by Correspondence, University of Florida, 1938 West University Avenue, Gainesville, Florida 32603, (904) 392-1711.

**Sponsored Research and Training**

Thomas A. Breslin, Vice Provost and Director
Catherine F. Kennedy-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 of the University has served the South Florida community for the last seven years exhibiting shows of local and national importance. Exhibitions from outside the University and the area are intended to display the finest available and affordable examples of contemporary and historical art. These shows are obtained from a variety of sources, primarily professional organizations and lending institutions, individual artists, commercial galleries, and other educational institutions.

The types of exhibitions displayed directly benefit not only the University community, but also the public. Attendance records show that approximately 200 people per day visit the facility and come from Dade, Broward, Palm Beach, and Monroe counties, for the most part. The Museum is open six days a week and one evening.

The Art Museum, which occupies a 4,000 square foot area on the University Park, opened with an internationally acclaimed exhibition of Contemporary Latin American Drawings in April, 1977. Since that date many exhibitions have been displayed including: Alberto Giacometti, Draftsmen and Sculptors; The Texturology Series of Jean Dubuffet; Public Relations: Photographs by Garry Winogrand; Mira, Mira, Mira, Los Cubanos de Miami; Alfred Steiglitz, 1894-1934; William Wiley; A Collector's Eye; The Olga Hirshhorn Collection; Miriam Shapiro, A Retrospective: 1953-1980; Neil Welliver; Treasures of the Norton Gallery; Manuel Neri; Realist Watercolors; English Naïve Painting; Michael Graves Exhibition; Marsden Hartley Exhibition; Anxious Interiors; American Art Today: Still Life; and nationally acclaimed Marcel Duchamp Exhibition.

The Museum has continued to enhance its exhibition program with a lecture series which has included many of the exhibiting artists and scholars, museum curators, and others who have been involved with the particular exhibition. The highly acclaimed Critic's Lecture Series, sponsored by the Museum, has included: Germaine Greer, Robert Hughes, John Cage, Tom Wolfe, Carter Ratcliff, Susan Sontag, Linda Nochlin, John Canaday, John Simon, and Michael Graves.

The Museum is operated by the Director, the Coordinator of University Collections, and 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 and intellectual 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: Admissions, Campus Ministry, Career Planning and Placement, Disabled Student Services, Enrollment Support Services, Financial Aid, Greek Organizations, Intercollegiate Athletics, International Student Services, Minority Student Services, Orientation, Precollege Programs, Public Safety, Student Activities, Student Counseling, Student Government, Student Health Services, Student Judicial Affairs, Student Union, and University Housing.

Student Affairs offices are located at University Park in University House, the first floor of PC, 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 Trade Center, and the third floor of the Library.

**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; ACI 160, North Miami Campus, 940-5760; Trailers, Broward Program, 475-4150.

**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: UH 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 pro-
vides the necessary tools for on-going self-assessment. CP&P provides five services: Career Advisement, Career Mentoring Programs, Cooperative Education, Career Placement and the Job Location and Development Program. Through these services students and alumni learn up-to-date information about the world of work, career major choices, occupational trends, career options, and job search techniques.

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

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

Location: UH 230, University Park, 348-2423; SC 260, North Miami Campus, 940-5813 Trailers, Broward Program, 474-1404.

Disabled Student Services

Disabled Student Services 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, mental or psychological disorders, and temporary disabilities. Services include counseling, coordinating classroom accommodations, providing special equipment, note-takers, readers, interpreters, adapted testing, special registration, and University and community 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.

Location: UH 231, University Park, 348-3532; SC 261, North Miami Campus, 940-5813; Bldg. 9, Room 224, Broward Program, 948-6793.

Enrollment Support Services

Enrollment Support Services 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 Division. 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; ACI-160, North Miami Campus, 940-5765.

Greek Organizations

Greek organizations contribute to the University by promoting leadership, scholarship, service, social activities and brotherhood and sisterhood. There are nine fraternities and five sororities coordinated by a Greek Council. In addition, an Interfraternity Council governs fraternities and a Panhellenic Council governs sororities. A formal rush period is held in the Fall semester, and an informal rush is held during the Spring semester.

Location: UH 219, University Park, 348-2950.

Intercollegiate Athletics

FIU is a member of the National Collegiate Athletic Association (NCAA), the New South Women's Conference (NSWAC), and the Trans America Athletic Conference (TAAC) for men. The University has competed at the Division I-AAA level since September of 1987, having competed successfully at the Division II level since 1972. Programs and services in Intercollegiate Athletics provide an opportunity for student-athletes to develop as skilled performers in an educational setting. Much emphasis is placed on the student in 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, and cross country. Men's programs consist of basketball, soccer, baseball, golf, tennis, 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 towards 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 12 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 towards 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 open recreation and physical fitness facilities, and coordinates intramural leagues, club sports and special events.

Active sport clubs include Bowling, Crew, Cycling, Fitness, Lacrosse, Rowing, Scuba, Shotokan Karate, Tae Kwon Do, Rugby and Badminton. Fourteen intramural sports include bowling, basketball, flag football, golf, soccer, softball, co-recreational softball, volleyball, tennis, racquetball, floor hockey, wallyball, baseball, and slam dunk. 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. Credit classes are offered each semester in the College of Education.

Athletic and Recreational Facilities

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

The Baseball and Soccer Fields are lighted and each has 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 tanning. 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
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 visa 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: UH 217, University Park, 348-2421; SC 260, North Miami Campus, 940-5813.

Minority Student Programs and 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 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: UH 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 freshmen 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: UH 350, University Park, 348-3828.

Precollegiate Programs

Precollegiate Programs provides information on educational opportunities and campus resources, and prepares promising minority high school students for college through partnership programs with educational, civic, religious, business, and government agencies and organizations. Staff work closely with the Admissions office to assist participants gain entry into the University.

Location: UH 216, University Park, 348-2436.

Public Safety

Public Safety is a full service Public Safety organization which maintains a peaceful and safe environment throughout the University community. The department is a unit of the State of Florida law enforcement agencies and its members have full police authority to enforce state and local laws and University regulations.

Public Safety also enforces University Park 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. 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. 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 1, North Miami Campus, 940-5555 (Information), 940-5911 (Emergency).

Registration and Records

The Office of Registration and Records 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 130, University Park, 348-2383; AC 160 North Miami Campus, 940-5750; Broward Program, 475-4150.

Student Activities

Student Activities provides learning opportunities in which students can practice and develop leadership,
communication, problem-solving, pro-
gram planning, organization, implementa-
tion, and evaluation skills. Activities are co-curricular and cover all aspects of the educational experience. Over 125 registered student organizations exist to en-
rich campus life and contribute to the social, cultural, and academic growth of students. Students may organize addi-
tional groups that promote the University's educational mission.

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

Various informational materials are pub-
lished and distributed on housing rental practices, landlord/tenant regulations, and other campus resources for com-
muter students.

Location: UH 340, University Park, 348-2137; SC 363, North Miami Cam-
pus, 940-5813; Modular 12.1, Broward Program, 475-4167.

Student Counseling Services

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

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: UH 211A, University Park, 348-2434; SC 260, North Miami Cam-
pus, 940-5813.

Student Government Association

The Student Government Association is comprised of senators from all Schools and Colleges who are elected by the stu-
dent body. SGA appropriates an annual budget generated by the Activity and Service fee which is paid by all students at the time of registration. Bills, appropri-
tations, and resolutions come before the senate for discussion, support, fund-
ing, 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 repre-
sentation at the administrative level. Stu-
dents are encouraged to become involved in all aspects of Student Gov-
ernment.

Location: UH 311, University Park, 348-2121; SC 363, North Miami Cam-
pus, 940-5680; Modular 12.1, Broward Program, 475-4167.

Student Health Center

The Student Health Center provides ac-
cessible primary health care resources to enable students to maintain a positive state of health. The department holistic promotes health education, wellness programs and preventive medicine. The Health Center stimulates student awareness of health behaviors which may be integrated into lifestyle practices for future health and wellness.

Services include routine medical care; physical examinations, family planning, diagnosis and treatment, 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 a valid identification card. Labo-
atory and pharmacy services are pro-
vided for a nominal fee. The University strongly recommends the purchase of student health insurance. Brochures de-
scribing insurance coverage in detail are available at the Student Health Center on both campuses.

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

Location: Student Health Center, Uni-
viersity Park 348-2401; HM 110, North Miami Campus, 940-5620.

Student Judicial Affairs

University policies and procedures re-
garding the rights and responsibilities of students, and a Code of Conduct assuring that these rights can be freely exer-
sised without interference or infringement by others, are handled in this department.

Students are subject to Federal and State laws, local ordinances, and regula-
tions of the University and the Florida Board of Regents. A breach or violation of any of these laws or regulations may result in judicial or disciplinary action.

Complaints on academic matters should be directed to the Office of the Provost for Academic Affairs. Complaints on non-academic matters should be directed to Judicial Affairs.

If an individual is involved in an of-
fense resulting in criminal charges prior to admission to the University, the cir-
cumstances of the case may be re-
viewed to consider the individual's eligibility for admission and participation in extracurricular activities.

For more specific information on the Student Code of Conduct, please refer to the "Student Handbook."

Location: SC 260, North Miami Cam-
pus, 940-5817.

Student Union

The Student Unions on each campus provide direct services to students and the University community. University House (UH) at University Park, and the Student Center (SC) at North Miami are the local 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 bookstore, cafeteria, grill, tick-

tomastor, vending machines, automatic banking facilities, lounges, meeting rooms, and a gameroom. SC also houses a post office and theatre. UH also houses a radio station, ballroom, and an overnight lodging facility.

Services include lost and found, locker rental, vending refunds, non-
credit courses, and student identification card distribution.

Staff in the unions also coordinate the scheduling of space and assist with the production of Student and university-
wide events.

Location: UH 314, University Park 348-2297; SC 125, North Miami Cam-
pus, 940-5800.

University Housing

Apartment style housing is available for single and married, undergraduate and graduate students on both campuses. Services and programs are designed to be responsive to student needs and support the educational goals of the Univer-
sity.

The residential environment pro-
vides an opportunity to meet and to in-
teract with others in ways that
sonal growth, and increase awareness of the rich cultural diversity within the University. Students residing on campus have ready access to academic and recreational facilities.

Cooking and refrigeration appliances are provided in each room, however a meal plan may be purchased through the cafeteria on either campus.

All housing is assigned on a space available basis without regard to race, ethnic origin, or religious preference. Modified space is available to students with physical disabilities. Contracts are issued for the Fall and Spring semesters. Summer housing is available on request. For further Information and rates, write the University Housing Office, H-101, FIU, University Park, Miami, Florida, 33199.

Location: H-101, University Park, 348-4190; Residence Hall Lobby, North Miami Campus, 940-5587.

Business and Finance

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

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 PC 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 has prepared 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, UH 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 natural origin. Under the policies, it does not matter whether the discrimination was intended or not; rather the focus is on whether students or employees have been treated differently or subjected to an intimidating, hostile or offensive environment as a result of 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.

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.

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.
Environmental Health and Safety

The Environmental Health and Safety Department is 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.

Legal Affairs

Legal services are provided to the university under a contract with the law firm of Valdstra-Faula, 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.

Personnel Relations

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.

University Physical Planning

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.

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 Mall. 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.

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.

North Miami, Budget, and Information Resource Management

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 divisions of IRM are University Computer Services (UCS), the Southeast Regional Data Center (SERDAC), and Telecommunications.

University Computer Services (UCS)

University Computer Services (UCS) provides instructional and research computing support to the faculty and students of all FIU academic departments on the University Park, North Miami, and Broward campuses. Computer hardware accessible to students includes a DEC VAX 8600 superminicomputer running VMS, a SUn 4/280 minicomputer and a 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; numerous phone lines and several public terminal labs for 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 Applications Systems and User Services Groups, provides support for the administrative functions of the University, including Admissions, Registration, and Financial Aid.

Lab Use: Students are required to have a valid FIU picture ID card in order to use UCS terminal and micro labs. Occasionally, during the peak periods before midterm and final exams, lab hours are extended to meet increased demand. Nevertheless, users are advised to complete assignments early; time limits may be imposed during periods of high demand. Ethical computing practices are stressed. The University Park student lab facility is located in PC-411, PC-413, PC-414, PC-415, PC-416, PC-419, and PC 322. For a recorded message with current University Park student lab hours, call 348-2174. 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 students and faculty workstations to the Data Center’s Unix/SUN and VMS/DEC VAX cluster services.

SERDAC’s computers allow convenient access to the Internet and Bitnet international computer networks. The Data Center also provides FIRMCOM electronic mail and bulletin board services to the State Department of Education’s Florida Information Resource Network (FIRN), which connects virtually all public educational entities in Florida. Information on these services may be obtained by calling 348-2695.

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

Primary operations and dispatch services for faculty, student, and administrative printout are located in University Park, PC-436. Please call 348-2109 for information concerning this facility.

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 inter-campus 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 Campuses (940-5500).

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.

University Budget Planning Office
The University Budget Planning Office is responsible for the development of all operating and biennial budgets in all budget entities, including the five year plan, legislative budget request, operating budget request and internal operating budget plan. The office is staffed by a director, a staff assistant, 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:

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.

Alumni Affairs
The Office of Alumni Affairs seeks to maintain contact and encourage communication with and participation in special events with the more than 45,000 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, career development programs, speakers and workshops.

University Relations
University Relations is comprised of three offices providing professional staff and resources to support university advancement activity.

The Office of University Events seeks to strengthen university and community ties, and to coordinate community events held on the university campuses. This office manages university events such as commencement, convocation, Presidential lectures and receptions, and hosts special campus visitors.

The Office of Publications is charged with the responsibility of producing effective, attractive, and informative publications which are consistent with the University’s mission and goals and are in conformance with the requirements of the State University System. Publication staff provide editorial, graphic, design, typesetting, and production assistance for all university publications. This office produces the monthly faculty/staff newspaper, INSIDE.

The Office of Media Relations is the University’s primary linkage with representatives of the print and broadcast media. News releases on university programs and on faculty, administrators and students are issued from this office. This office also provides assistance in promoting university events and activities in the media.

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 effec-
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 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 W4-202, University Park, 348-2771.

Center of Economic Research and Education

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

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

Center for Educational Development

The Center for Educational Development (CED) is a multidisciplinary unit based in the College of Education whose mission includes: (1) planning, technical assistance, training and research in support of educational systems development internationally and domestically; (2) increased minority group access to and achievement in educational systems; (3) acquisition of state and external resources for development of educational systems; and (4) multi-institutional collaboration in educational development projects and research.

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

For more information call 940-5820, or Telex 956-5494, or write to the Executive Director, Center for Educational Development, College of Education, ACI-370, North Miami Campus, Florida International University, North Miami, FL 33181.
Center for Labor Research and Studies

The Center for Labor Research and Studies (CLR&S) was established in 1971 to promote research, curriculum development and community service in labor relations at the University. Accredited through the University and College Labor Education Association (UCLEA), the Center is one of 51 accredited labor centers in the United States. Its broad mission is to provide "services to workers and their organizations." This broad mission translates into three specific objectives: 1) to provide comprehensive, statewide labor education service; 2) provide internal and applied research programs designed to support faculty research in labor relations, the changing nature of work, and labor education issues; and 3) develop 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 a 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 training programs. These educational activities, which serve over 2,000 students a year, have helped to educate labor and management participants not only in labor relations but have introduced innovations in pension fund administration, dynamics of privatization, and international labor perspectives to local and national audiences.

The Center houses several projects which serve to carry out its research and training functions. Among them are the Minority Workers Project, the Contemporary Labor Issues Conference Series, the Labor and Community Program, and the Applied Research Program. Faculty research is distributed through its various publication series.

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 TR-2, University Park, 348-2371.

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 at the North Miami 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.

Microcomputer Workshops

Located in North Miami Campus, this lab is equipped with IBM personal computers. The programs offered include:

- Introduction to Microcomputers
- Spreadsheets
- Word Processing
- Business and Accounting Applications
- Data Base Management

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.

Certificate Programs

Professionals who desire to upgrade their knowledge and skills will benefit from participating in the appropriate Certificate program. Currently non-credit certificates may be earned in:

- Personnel Administration
- Training & Human Resource Development
- Management
- Marketing

The Center is located in ACII 310, North Miami Campus 940-5825.

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 Bis-cayne 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 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.
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 is located in ACI-383B, North Miami Campus, 940-5910.

English Language Institute

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

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

Testing and Placement

The English Language Institute offers proficiency testing of both written and oral proficiency in English as a support service for academic units throughout the University. Evaluative procedures are designed to fit the needs of individual programs or schools, to assist them in the identification of individual students' level of proficiency in English, and to place students in appropriate programs of study when needed. In addition, the Testing and Placement Center regularly administers the Test of English as a Foreign Language (TOEFL) and the Test of Spoken English (TSE) for members of the University and Dade County school communities. Finally, the Center provides certification in oral English proficiency through the FIU Oral English Proficiency Exams in cooperation with English language agencies abroad.

ESL Evening and Saturday Program

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

Accent Reduction

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

The English Language Institute is located in PC 316, University Park, 348-2222.

FAU-FIU Joint Center for Environmental and Urban Problems

The establishment in July 1972 of the Joint Center for Environmental and Urban Problems at Florida International University and Florida Atlantic University was based on the premise that many of Florida's environmental and urban problems are interrelated growth management problems. The headquarters of the Joint Center are located on the Broward campus of FAU at the University Tower in Fort Lauderdale with branch offices on FIU's North Miami Campus and FAU's Boca Raton campus.

An associate director, research associate, and secretary staff the FIU office. Part-time research associates and assistants supplement the full-time staff, as do University faculty members on individual research projects.

The Joint Center functions as an applied research and public service facility that carries out programs supportive of local, regional and state agencies, educational institutions, and non-profit organizations. The Center achieves its purposes through activities in the following program areas: (1) in-house research with application to state, regional, and local governments; (2) research projects, supported by grants and contracts with public and private agencies, that address environmental and urban problems; (3) applied research grants awarded to faculty at the two universities; (4) publication of the Joint Center's quarterly publication, 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 topics; and (6) workshops, assemblies, conferences and lectures.

Research

Recent research undertaken at the FIU office of the Joint Center includes: a study of East Everglades environmental management for the Environmental Protection Agency and Urban Land Institute; analysis of public opinion on transportation issues for the Florida Department of Transportation; development of an implementation strategy for an affordable housing density bonus program in Palm Beach County; and development of a housing impact assessment model for large, regional developments.

Each year the Joint Center provides grants to support faculty research in urban and environmental problems. Recent awards to FIU faculty have supported research in database design for geographic information systems and economic modeling of the Miami-Fort Lauderdale economy.

Service

In cooperation with local, regional and state agencies, and with private organizations, the Joint Center has organized, directed, and staffed conferences for public officials and community leaders 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 AC-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 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.

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. The objective of the Institute is to infuse Jewish content into the curriculum of the University at all appropriate levels. Contemporary issues and problems provide focal points for study, dialogue, exchange and travel. 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 PC 242, 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 90 language and area studies faculty regularly offer nearly 100 courses on diverse topics. 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 PC 237, University Park, 348-2954.

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 public policy decision-makers with timely and relatively inexpensive information on how a scientifically selected cross-section of the public stands on various policy 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 before available. The publication in book form of the results 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 long-standing interest in the area of public-policy communication. That may, for example, include the development of an annual South Florida survey, development of a standard metropolitan area assessment instrument which would be readily available to major cities and counties in the state, or development of a standard instrument by which state and local legislators can quickly and inexpensively gauge the sentiments of their constituents on policy issues.

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

IPOR is located in Academic One, Room 286, on the North Miami Campus. For more information call 940-5991.

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 history 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 service 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 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, 967-0100.

Southeast Florida Center on Aging

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

Objectives

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

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

The Center consists of three components:

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

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

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

Program Development and Technical Assistance: Design of innovative concepts and programs that further public policy objectives to expand opportunities for older people or to improve 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.

Women’s Studies Center

The Women’s Studies Center serves as a University resource on the specialized concerns and academic interests of women. A major focus of the Center is the interdisciplinarity Certificate Program in Women’s Studies which provides support for the certificate faculty committee and the development of the program.

The Certificate in Women’s Studies was established to provide an opportunity for the interdisciplinary study of the historical, political, economic, literary, social, and cultural roles of women; and of the function of gender in various societies and cultures. The program is directed toward specialists and generalists alike: it offers a plan of study for students in the various departments 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 provides a place and opportunity to foster women’s progress through such activities as referrals, counseling, peer groups, access to studies and research on women’s learning and culture, and assistance on issues of gender inequality. The Center offers seminars, conferences, lecture series, and related events on both academic and women’s issues topics.

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

Florida’s Statewide Course Numbering System

The course numbers appearing in the catalog are part of a statewide system of prefixes and numbers developed for use by all public post-secondary and participating private institutions in Florida. One of the major purposes of this system is to make transferring easier by identifying courses which are equivalent, no matter where they are taught in the state. All courses designated as equivalent will carry the same prefix and last three digits.

The classifying and numbering of courses is done by faculty in each academic discipline. Their work is reviewed by all of Florida’s postsecondary institutions who make suggestions and criticisms to be incorporated into the system.

The course numbering system is, by law, descriptive and not prescriptive. It is not in any way limits or controls what courses may be offered or how they are taught.
It does not affect course titles or descriptions at individual schools. It seeks only to describe what is being offered in post-secondary education in Florida in a manner that is intelligible and useful to students, faculty, and other interested users of the system.

The course numbering system was developed so that equivalent courses could be accepted for transfer without misunderstanding. Each public institution is to accept for transfer credit any course which carries the same prefix and last three digits as a course at the receiving institution. For example, if a student has taken SYG 000 at a community college, he cannot be required to repeat SYG 000 at the school to which he transfers. Further, credit for any course or its equivalent, as judged by the appropriate faculty task force and published in the course numbering system, which can be used by a native student to satisfy degree requirements at a state university can also be used for that purpose by a transfer student regardless of where the credit was earned.

It should be noted that a receiving institution is not precluded from using non-equivalent courses for satisfying certain requirements.

General Rule for Course Equivalencies

All undergraduate courses bearing the same alpha prefix and last three numbers (and alpha suffix, if present) have been agreed upon to be equivalent. For example, an introductory course in sociology is offered in over 40 post-secondary institutions in Florida. Since these courses are considered to be equivalent, each one will carry the designator SYG 000.

First Digit

The first digit of the course number is assigned by the institution, generally to indicate the year it is offered: 1 indicates freshman year, 2 indicates sophomore year, etc. In the sociology example mentioned above, one school which offers the course in the freshman year will number it SOC 1000; a school offering the same course in the sophomore year will number it SOC 2000. The variance in first numbers does not affect the equivalency. If the prefix and last three digits are the same, the courses are substantively equivalent.

Titles

Each institution will retain its own title for each of its courses. The sociology courses mentioned above are titled at different schools 'Introductory Sociology', 'General Sociology', and 'Principles of Sociology'. The title does not affect the equivalency. The courses all carry the same prefix and last three digits; that is what identifies them as equivalent.

Lab Indicators

Some courses will carry an alpha suffix indicating a lab. The alpha suffixes 'L' and 'C' are used as follows to indicate laboratories: 'L' means either (a) a course, the content of which is entirely laboratory or (b) the laboratory component of a lecture-lab sequence in which the lab is offered at a different time/place from the lecture. 'C' means a combined lecture-lab course in which the lab is offered in conjunction with the lecture at the same time/place.

Examples

Marine Biology OCB 013 (lecture only)
OCB 013L (lab only)
Marine Biology OCB 013G (lecture and lab combined)

Therefore, OCB 013G is equivalent to OCB 013 plus OCB 013L.

Equivalency of Sequences

In certain cases, sequences of courses in a given discipline are equivalent rather than the individual courses which make up these sequences. For example, CHM _045 plus CHM _046. In several institutions students have completed substantively equivalent content. These sequences are clearly identified in the Course Equivalency Profiles.

Explanation of Prefixes and Numbers

Prefixes and numbers in the course numbering system are not chosen at random; they are designed to describe course content in an organized fashion within a classification system developed for each subject matter area.

Generally, each of the major classifications in a discipline is represented by a three-alpha prefix. In some cases, one three-alpha prefix has been sufficient for the entire discipline. A discipline may use as many prefixes as necessary to accommodate its major classifications. The logic of the system allows it to be infinitely expandable with minimal disruption to existing numbers.

History, for example, has seven prefixes: AFH, African History; AMH, American History; ASH, Asian History; EUH, European History; HIS, History - General; LAH, Latin American History; and WOH, World History. All history courses in the state will carry one of these prefixes.

A complete inventory of taxonomic listings, equivalent and unique courses has been made available to each academic department of every institution in the state. Students, through their local advisors, should use this information in designing programs which will transfer smoothly.

A more specific example is AMH 3421 (Early American History)

AMH Broad Area of American History; part of discipline of History
3 Junior level offering (at this particular Institution)
4 In Taxonomy for AMH 400 series indicates 'Areas in American History'
1 Last digit in this case refers to group of equated courses dealing with 'Early History of Florida'

Exception to the Rule for Equivalencies

The following are exceptions to the general rule for course equivalencies:

1. All numbers which have second digit of 9 (Ex: ART 2906) are 'place keeper' numbers for such courses as directed independent study, thesis hours, etc. Courses with 900 numbers must be evaluated individually and are not automatically transferable.

2. All internships, practicum, clinical experiences and study abroad courses, whatever numbers they carry, are not automatically transferable.

3. Performance or studio courses in Art, Dance, Theatre, and Music are not automatically transferable, but must be evaluated individually.

Authority For Acceptance of Equivalent Courses

Authority for acceptance of equivalent courses is State Board of Education Rule 6A-10.24(16) which states:

(16) When a student transfers among postsecondary area vocational-technical centers, community colleges, and universities, the receiving institution shall award credit for courses satisfactorily completed at the previous institutions when the courses are judged by the appropriate common course designation and numbering system faculty task force 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 certificate and degree requirements in these institutions on the same basis as native students.
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University Relations and Development

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Executive Director, Southeast Florida Center on Aging - Max B. Rothman
Director, Women's Studies Center - Marilyn Hoder-Salmon
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, the School of Journalism and Mass Communication, 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 Applied Sciences), geology, hispanic studies, history, international studies, linguistics, mass communication, mathematical sciences, physics, and psychology.

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

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

Biological Sciences

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Helen Correll, Research Scientist

Leon A. Cuervo, Professor

George H. Dalrymple, Associate Professor

Kelsey Downum, Associate Professor

Jack B. Fisher, Research Scientist

Kenneth Gordon, Associate Professor

Rene Herrera, Assistant Professor

William Houghton, Research Scientist

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John Makemson, Professor

Gerald L. Murison, Professor

Knut W. Norstog, Research Scientist

Steven F. Oberbauer, Assistant Professor

Case K. Okubo, Associate Professor

John Popenoe, Research Scientist

L. Scott Quackenbush, Assistant Professor

Jennifer Richards, Associate Professor

Laurie L. Richardson, Assistant Professor

Roger Sanders, Research Scientist

Martin L. Tracey, Professor

Ophelia I. Weeks, Assistant Professor

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. 1

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.

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 graduate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses

BSC 5408 Experimental Biology 4

BSC 6457 Introduction to Biological Research 3

BSC 5931 Graduate Seminar (a 1 credit course taken twice) 2

BSC 6971 Master's Thesis 6

Electives 1 21

Foreign language competency 2

1These 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 5000-level beyond six, or at a lower levels, will not count towards graduation.

2Competency 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;

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

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
Required Courses

BSC 5408 Experimental Biology 4
BSC 6457 Introduction to Biological Research 3
BSC 5931 Graduate Seminar (a one credit course taken twice) 2
BSC 5945 Supervised Teaching in Biology 2
BSC 7980 Ph.D. Dissertation 24
Electives 1 55

Foreign Language Competency 2
1 No more than 36 credits may be transferred from another graduate program, subject to the approval of the Graduate Committee.
2 Competency will be determined by examination consisting of a clear translation of the technical material in a foreign language. Credits taken to gain such proficiency will not count toward graduation. As an alternative, students may substitute either six credits of computer programming or mathematics beyond Calculus II.

Graduation Requirements

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

Course Descriptions

Note: Laboratories should be taken concurrently 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.

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

BSC 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 6507C Workshop in Spectroscopy and Enzyme Assay (1). Interaction of light with matter (absorption, fluorescence, light scattering) and emission (chemiluminescence, bioluminescence); analysis of spectra and enzyme kinetics. Prerequisite: 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.

BCH 6131C Workshop in Radioisotope Use and Safety (1). Workshop in the safe use of radioisotopes in biological and biochemical experimentation, labeling of biochemical compounds, purification of labeled compounds, and instrumentation involved in detecting of radioisotopes. Prerequisite: Graduate status.

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.

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.

BOT 5405 Phycology (3).

BOT 5405L Phycology 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 5605 Plant Ecology (4). In-depth study of plant ecology at 3 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 6757 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 6920C 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 6921C 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 6935 Advanced Topics in Botany (3). An intensive study of particular plant topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

BSC 5215 Introduction to the Mechanics of Biological Systems (3). Mechanical principles are used to analyze the structure and function of plants and animals; especially the statics of bone systems, and support structures of plants. Prerequisite: Permission of instructor.

BSC 5345 Techniques in Scientific Diving (4). Planning and conducting safe scientific diving operations and research. Prerequisite: Civilian Diving Certificate (NAUI/PADI) or equivalent.

BSC 5408C Experimental Biology (4). Laboratory techniques used in biological research.
logical 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 Visitaton (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 8980 Ph.D. Dissertation (1-12).**

**MCB 5405 Photosynthetic Bacteria**

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

**MCB 5505 Virology**

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

**MCB 6418 Bacterial Mineral Cycling**
Energy and metabolic processes; detrital food chains; carbon, nitrogen, sulfur and trace mineral cycling; chemotrophy; global element cycles. Prerequisite: Permission of Instructor.

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

**MCB 6735 Marine Microbiology**

**MCB 6735L Marine Microbiology Lab**
Physiological-ecological study of the distribution in situ activity and biology of marine bacteria; public health significance of pathogens and microbial toxins conveyed in man; diseases of marine animals. Prerequisites: MCB 3023 & L and BCH 3023 & L or PCB 3023 & L.

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

**PCB 5195L Histochemistry/Microtechnique Lab** (1). Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathology labs including techniques for enzymes, protein, carbohydrate, nucleic acids and lipids. Prerequisite: Biochemistry or Cell Physiology.

**PCB 5205 Cell Physiology and Biophysics**
Fundamental biophysical properties of membranes, transport of passive and active electrical phenomena. Biochemistry and biophysics of contractile mechanisms and information transfer. Prerequisites: Calculus and Physical Chemistry or permission of instructor.

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

**PCB 5344 Tropical Ecology Field Lab**
Field course in Costa Rica with fieldwork in two or more diverse habitats (rainforest, and dry forest). Emphasis on diversity and interactions between species. Visits to selected sites of deforestation, conservation and restoration.

**PCB 5358 Everglades Research and Resources Management**
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 Organisms Evolution**
The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisites: Genetics and Biochemistry.

**PCB 5665 Human Genetics**
Principles and techniques in the analysis of the human race. Prerequisite: PCB 3513.

**PCB 5676 Evolution and Development of Sex**
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**
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 disturbance. Includes field problems and computer exercises. Prerequisite: A course in genetics, evolution, or permission of instructor.

PCB 5687 Evolutionary Ecology (3). Adaptations and interactions of plants and animals in natural and disturbed habitats. Prerequisite: PCB 3043 or equivalent.

PCB 5835 Neurophysiology (3)
PCB 5835L Neurophysiology (1). Comparative neurophysiology; physio-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: APB 4240 or PCB 3703 and PCB 3203 or BCH 3203.

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, molecular strategies 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 eukaryotic chromosome: euchromatin/heterochromatin, replication, repair, DNA sequence organization. Prerequisite: Permission of instructor.

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

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

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

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

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

PCB 7689 Advanced Topics in Population and Evolutionary Genetics (3). Comparison of the synthetic and mutational drift hypotheses; relationships between molecular and phenotypic evolutionary rates and the phenotypic effects of various forms of mutation. Prerequisite: Permission of instructor.

ZOO 5256 Biology of Crustaceans (3). ZOO 5266L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5376 Animal Design and Movement (3). 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 8 credits. Prerequisite: ZOO 3733L and ZOO 3734L.

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 6376C Experimental Approaches to Functional Morphology (4). The use of mechanical analysis, electromyography, high-speed cinematography and other experimental techniques to solve problems in functional morphology. Prerequisite: A course in Anatomy.

ZOO 6393 Advanced Topics in Zoology (3). An intensive study of particular topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate standing.

Chemistry

Leonard S. Keller, Professor and Chairperson
Milagros Delgado, Assistant Professor
Kenneth G. Furton, Assistant Professor
Arthur W. Herriott, Professor and Acting Dean
Gary G. Hoffman, Assistant Professor
Jeffrey A. Joens, Associate Professor
John T. Landrum, Associate Professor and Graduate Coordinator
Ramon Lopez de la Vega, Associate Professor
Howard E. Moore, Professor
John H. Parker, Professor
J. Martin Quirke, Professor
Stephen Winkle, Associate Professor

Master of Science in Chemistry

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

A core curriculum of nine semester hours plus a minimum of three elective courses in chemistry or suitable cognate areas (including but not limited to, physics, geology, biology, and mathematics) to be taken at the discretion of the student and at the direction of the Student's Thesis Advisory Committee. Each
graduate student must also register for Graduate Seminar during each semester of study and must complete a minimum of 2 semester hours of graduate seminar, 4 semester hours of graduate research and 8 semester hours of thesis research. A grade of 'C' or higher must be obtained in all courses with a cumulative grade point average of 3.0 or higher, and a thesis must be completed and accepted after presentation to the Thesis Committee.

Core Curriculum

CHM 5181 Special Topics in Analytical Chemistry 3
CHM 5380 Special Topics in Organic Chemistry 3
CHM 6430 Advanced Thermodynamics 3
CHM 6935 Graduate Seminar (min 2)
CHM 6910L Graduate Research (min 4)
CHM 6970 Thesis Research (min 8)

Elective courses: (minimum 3 required)

CHM 5440 Kinetics and Catalysis 3
CHM 5280 Natural Products and Biosynthesis 3
CHM 5250 Organic Synthesis 3
CHM 5280 Physical Organic Chemistry 3
CHM 6511 Polymer Chemistry 3
CHM 6490 Quantum Chemistry 3
CHM 5681 Special Topics in Inorganic Chemistry 3
CHM 5581 Special Topics in Physical Chemistry 3
CHM 5490 Spectroscopy and Molecular Structure 3
CHM 5506 Physical Biochemistry 3
CHM 6461 Statistical Thermodynamics 3

Financial Support

Full-time graduate students who are in good academic standing are eligible for financial support. Teaching and research assistantships are available on a competitive basis. Students may also apply for waiver of both In-State and Out-of-State tuition. Inquiries concerning application to the program and availability of financial support should be directed to the Chemistry Graduate Coordinator.

Course Descriptions

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

Definition of Prefixes

CHM-Chemistry; CHS-Chemistry-Specialized; ISC-Interdisciplinary Natural Sciences; OCC-Oceanography-Chemical.

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

CHM 5156 Advanced Chromatography (3). Intensive examination of the contemporary practice of chromatography including available chromatographic techniques, their selection and application. Prerequisite: CHM 4130 or permission of instructor.

CHM 5181 Special Topics in Analytical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Core course Prerequisite: CHM 4220 and physical chemistry or permission of instructor.

CHM 5425 Graduate Physical Chemistry (4). Prequantum physics, the Schrödinger 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 Spectroscopy and Molecular Structure (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, microwave, nmr, photoelectron, and mass spectroscopies, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisites: Physical Chemistry.

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

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 3211, MAC 3311, and physical chemistry 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 5580 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, acetalogens. 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. Pre-
requisite: CHM 4610 or permission of instructor.

CHM 5931 Special Topics (3). A course covering selected special topics in chemistry.

CHM 6157 Advanced Analytical Chemistry (3). Modern analytical methods, applications, and instrumentation. Topics include spectroscopy, chromatography, electrochemistry, optimization theory, and computer-assisted instrumentation. Prerequisite: CHM 4130 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 6461 Statistical Thermodynamics (3). Principles of statistical thermodynamics. Ensembles, classical and quantum statistics, ideal and non-ideal gases, equilibrium, crystals, liquids, and polymers. Prerequisite: CHM 3411 or permission of instructor.

CHM 6480 Quantum Mechanics (3). Introduction to quantum mechanics. The Schrodinger equation and its solutions, approximation methods, spin, symmetry, structure of atoms and molecules. Prerequisite: CHM 3411 or permission of instructor.

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

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

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

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

CHM 6940 Supervised Teaching (1-3). Graduate student serves as lecturer and demonstrator in undergraduate laborator-

ries 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.

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School of Computer Science

Jalnendra K. Navlakha, Professor and Director

Farah Arefi, Assistant Professor
Toby S. Berk, Professor and Associate Director
David S. Barton, Professor
John C. Comfort, Professor
Luis L. Cova, Assistant Professor
Rasmund Ege, Assistant Professor
Carol D. Henley, Instructor
Harry Hoffman, Instructor
William T. Kraynak, Associate Professor
Wesley F. Mackey, Lecturer
Masoud Milan, Assistant Professor
Ana Pasztor, Associate Professor
Alexander Pellin, Associate Professor
Norman Pestina, Instructor
N. Prabhakaran, Assistant Professor
Napthail Rishe, Associate Professor
Orlando Sauleda, Instructor
Wel Sun, Assistant Professor
Doron Tal, Assistant Professor
Mark Weiss, Assistant Professor

The School of Computer Science offers both a Masters of Science degree and a Doctor of Philosophy degree. The Master of Science degree provides study in state-of-the-art computer applications as well as an introduction to the theoretical foundations of computer science. The Doctor of Philosophy in Computer Science is designed to provide study in all major areas of computer science while leading to the frontiers of knowledge in a chosen field of concentration.

Master of Science in Computer Science

Admission

The following are in addition to the University's graduate admission requirements:

1. A Bachelor's Degree in Computer Science or equivalent degree in a related field from an accredited university or college as judged by the School's Graduate Committee.

2. A "B" average or better in all coursework attempted while registered as an upper-division student in the Bachelor's degree.

3. Acceptable courses in Calculus and Statistics.

4. GRE score of at least 550 quantitative and 500 verbal taken within the last three years; the score of the analytic portion of the GRE exam will be considered.

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

6. Approval of the Graduate Committee.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 5611</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>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5602</td>
<td>Introduction to Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5680</td>
<td>Expert Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5701</td>
<td>Advanced Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CDA 6501</td>
<td>Distributed Processing</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6100</td>
<td>Statistical Computer Performance Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>COP 5621</td>
<td>Compiler Construction</td>
<td>3</td>
</tr>
<tr>
<td>COT 5421</td>
<td>Theory of Computation II</td>
<td>3</td>
</tr>
<tr>
<td>COP 6545</td>
<td>Advanced Topics in Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CDA 5312</td>
<td>Micro Processing for Software Designers</td>
<td>3</td>
</tr>
</tbody>
</table>
Required Courses
All students must complete the following courses and receive a grade of 'B' or higher in each.

- CDA 5312 Micro Processing for Software Designers
- CDA 6501 Distributed Processing
- CIS 5611 Software Engineering
- COP 6545 Advanced Topics in Database Management
- COP 6611 Advanced Operating Systems
- COT 5420 Theory of Computation I
- COT 6400 Analysis of Algorithms
- COT 6421 Theory of Computation II
- MAD 5405 Numerical Methods
- STA 6807 Queuing and Statistical Models

In addition, all students must:
1. Successfully pass a Qualifying Examination based on the required coursework.
2. Take at least 12 hours of 6000-level courses approved by the Graduate Committee.
3. Write a dissertation on their research and successfully defend it orally.
4. 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, please contact:
Dr. David Barton
Graduate Program Director
School of Computer Science
Florida International University
Miami, Florida 33199

Course Description

Definition of Prefixes
- CAP: Computer Applications
- CDA: Computer Design/Architecture
- CIS: Computer Information Systems
- CGS: Computer General Studies
- COC: Computer Concepts
- COP: Computer Programming
- COT: Computing Theory

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

CAP 5680 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.

CDA 5312 Micro Processing for Software Designers (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 6501 Distributed Processing (3). Study of distributed systems of user 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, CDA 4500 and STA 6807.

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

CIS 5611 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.

CIS 6100 Statistical Computer Performance Evaluation (3). An introduction of the tools for quantitative, statistical and rational design, analysis, and optimization of complex computer systems. Prerequisites: STA 6807 and COP 6611.

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

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

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

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

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

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

CIS 7980 Ph.D. Thesis (1-10).
Ph. D. Thesis. 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.

COT 6400 Analysis of Algorithms (3).
Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530.

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

COT 6930 Special Topics: Advanced Topics In Theory (3).
This course deals with selected special topics in computing theory. Prerequisite: Permission of Instructor.

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

Creative Writing
Asher Z. Milbauer, Associate Professor and Chairperson
Lester Standiford, 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/South Beach Writers Workshop, the Miami Book Fair 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>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature</td>
<td>15</td>
</tr>
<tr>
<td>Writing Workshop</td>
<td>18</td>
</tr>
<tr>
<td>Form and Theory</td>
<td>3</td>
</tr>
<tr>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

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

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

Course Descriptions

Definition of Prefixes
CRW-Creative Writing.

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 spe-
cial studies in aspects of creative writing not otherwise offered. May be repeated.

CRW 5935 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisite: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 5940 Advanced Independent Study in Creative Writing (1-5). Development and completion of a graduate level independent project in creative writing undertaken with the consent of the instructor. Prerequisite: Graduate standing and instructor permission.

CRW 6971 Creative Writing Thesis (3). Research and writing for the creative writing thesis. May be repeated. Prerequisite: 12 hours graduate CRW coursework.

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

Economics

Raul Moncarz, Professor and Chairperson
Hassan Arvin-Rad, Assistant Professor
Manuel J. Carvajal, Professor
Robert Cruz, Assistant Professor
Irma de Alonso, Associate Professor
Marla Dolores Espino, Assistant Professor
Timothy Goodspeed, Assistant Professor
Antonio Jorge, Professor of Political Economy
Ali Cam Karayalcin, Assistant Professor
Bruce Kelley, Assistant Professor
Panagis Llossatos, Professor
J. Kenneth Lipner, Assistant Professor
Jorge Salazar-Carrillo, Professor and Director, Center for Economic Research and Education
Carlos Seville, Assistant Professor
Jong-Shin Wel, Assistant Professor
Mira Wilkins, Professor
Marla Williamsen, Assistant Professor

The major in economics provides the student with an understanding of economic problems and institutions, and analytical tools to apply this knowledge to contemporary problems. The program is designed for the student desiring a career in business, government, international agencies, or multinational corporations; and for those planning graduate study in economics, business, law, public administration, urban studies, or international relations.

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 analytical) 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 re-take 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
ECO 7115 Microeconomic Theory I 3
ECO 7206 Macroeconomic Theory I 3
ECO 7424 Econometric Methods I 3

Additional Requirements: (12-15 semester hours)

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 semester hours) 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 in Mathematics, International Studies, the College of Business Administration, the School of Public Affairs and Services, or in the other college or schools of the University. The graduate committee must approve courses taken outside the department.

Graduation Requirements

To receive the Master's degree in Economics, the student must complete 30 hours of course work with a 'B' (3.0) average or higher; must receive a least a 'B' (3.0) in the core courses; and must receive a grade of 'C' or higher in each course. If the student decides to write a thesis, he 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
1. Requirements: Students must complete 48 hours (16 courses) of graduate level coursework. Supervised research, independent studies, seminars, and dissertation credit do not count towards this objective.

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

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

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

2. 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.

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

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

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 enroll 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 5936 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 5945 Internship (3).
Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the instructor.

ECO 6936 Special Topics (3).
A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 6938 Individual Graduate Study (6-9). Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

ECO 6939 Advanced Seminar in Applied Economics (3). Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students.

ECO 6971 Thesis (6).
Writing and completion of thesis by candidate for a Master of Arts. Prerequisites: Student must be a Master's degree candidate, have had at least 15 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and permission from the instructor.

ECO 7115 Microeconomic Theory I (3).
Models of consumer and producer behavior, partial equilibrium analysis of product and factor markets, two-sector models of general equilibrium and welfare economics. Prerequisites: ECO 3101 or equivalent, Calculus I; Calculus II recommended.

ECO 7116 Microeconomic Theory II (3).

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

ECO 7135 Growth, Distribution and Prices (3).
Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo/Marxian, neo Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.
ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisites: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, 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 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 7315 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

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; Calculus I; Calculus II recommended.

ECO 7425 Econometric Methods II (3). A continuation of ECO 7424. Advanced single equation estimation, estimation of distributed lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 7424 and MAS 3103 or equivalent.

ECO 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 and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Completion of field examination requirements.


ECP 6705 Managerial Economics (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011.

ECP 6715 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705.

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

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

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

ECP 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 4638.

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.

ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of instructor for undergraduates.

ECS 5025 Economic Planning (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agricul-
ture, industrialization, foreign trade, and manpower. Prerequisite: Graduate standing or permission of the instructor.

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 7025 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, ECO 5025, 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 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.

Maneck Daruwala, Associate Professor
John Dufresne, Assistant Professor
Richard A. Dwyer, Professor
Charles Elkins, Professor and Vice Provost
Mary Jane Elkins, Associate Professor
Peggy Endel, Associate Professor
John Ernest, Assistant Professor
Mary Free, Associate Professor
Virginia Gathercole, Associate Professor
Peter Hargatal, Instructor
Jeffrey Knapp, Instructor
James Hall, Professor
Tometro Hopkins, Instructor
Kenneth Johnson, Associate Professor
Kathleen McCormack, Associate Professor
Carmela Pinto McIntyre, Associate Professor
Sheila Poat-Laura, Assistant Professor
Robert Ratner, Instructor
Merl-Jane Rocheison, Assistant Professor
Richard Schwartz, Associate Professor
Ronn Silverstein, Instructor
Ellen Sprechman, Lecturer
Laster Standford, Professor
Richard Sugg, Professor
Donald Watson, Professor
Butler H. Waugh, Professor
Robert Weinberger, Instructor
Barbara Welts, 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-General; ENL-English Literature; LIN-Linguistics; LIT-Literature.

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

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

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

ENG 5019 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 aesthetic. 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 5909 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENL 5220 Major British Literary Figures (3). Each section will consider the life work 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.

LIT 5363 Literary Movements (3). Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Manerism, 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 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.
Geology
Florentin Maurrasse, Professor and Chairperson
Bradford Clement, Assistant Professor
Charles Connor, Assistant Professor
Granville Draper, Professor
Rosemary Hickey-Vargas, Assistant Professor
Claudia Owen, Lecturer
Gautam Sen, Associate Professor
Edward Robinson, Visiting Lecturer

The Geology Program is designed to prepare students for careers in research, teaching, and other governmental or private agencies. The main objectives of the Department is to contribute to the search for a better understanding of local geological problems, focusing especially on those related to ground water supply; and to conduct research on the geology of the Caribbean region. Well-equipped laboratories expose students to the major techniques of the sciences. The program offers both a rigorous B.S. degree in Geology and a broader-based interdisciplinary B.A. in Geology. Grades of "D" will not be accepted for required courses in either program option.

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

1. Satisfactorily meet the University's general requirements for admission.
2. Hold a Bachelor's degree, or equivalent in a relevant discipline of Sciences or Mathematics. A maximum of 4-credit hours of advanced undergraduate course work will be allowed to count toward the Master's degree.
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 score of 1000 in the Graduate Record Examination.
4. Submit at least three letters of recommendation, preferably from persons in the academic community who are in a position to comment on the applicant's potential for graduate work.
5. 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. Foreign students who have not met this requirement may be conditionally admitted and allowed to enroll in an intensive English Program prior to beginning course work in Geology. Satisfactory English proficiency must be demonstrated within the first year of study.

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 English Proficiency, 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:

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<th>Course Code</th>
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<tr>
<td>GLY 5931</td>
<td>GLY 6931 Graduate Seminars</td>
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<th>Course Code</th>
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<tr>
<td>GLY 5286</td>
<td>Research Instrumentation and Techniques in Geology</td>
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Courses in field of specialization

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<th>Course Code</th>
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<td>Courses in field of specialization</td>
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<tr>
<td>GLY 6971</td>
<td>Thesis</td>
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<tr>
<td>Electives</td>
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Courses in the field of concentration and electives are chosen by the student in consultation with an advisor. All such courses are selected to fit the student's particular professional goals.

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

Fields of Concentration

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

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

Stratigraphy - Sedimentation
Research on lithostratigraphy and facies analysis of sedimentary rocks of South Florida and the circum Caribbean region. Tectonic evolution and paleoecology of sedimentary basins of these regions and their relationships to global and regional tectonic processes. Hydrocarbon assessment of potential source of rocks.

Structural Geology - Tectonics
Analysis of geologic deformation as it occurs from the microscopic to the re-
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 reconstruction, geophysical volcanology. Coursework will cover topics in geophysical principles, field methods and data analysis.

Regional 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 36 credits toward 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-Geology/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, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry.

GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling. Prerequisite: Graduate standing or permission of instructor. Corequisite: GLY 5286L.

GLY 5286L Research Instrumentation and Techniques in Geology 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 meta-
morphic rocks; pressure-temperature determinations; metamorphic textures; modeling and determination of P-T-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-t paths.

GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetic aspects, geochemistry, paleontology, mineralogy, and microfacies. Emphasizes microscopic study. Prerequisite: GLY 4555. Corequisite: GLY 5346L.

GLY 5346L Sedimentary Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4555 and GLY 4555L. Corequisite: GLY 5346.

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems related to natural rock deformation. Prerequisites: GLY 4400, MAC 5413, 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. Prerequisites: 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 (2). 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 5346.

GLY 5608 Advanced Paleontology I (3). Discussion of current literature and research projects on evolution, systematical 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. Deepsea stratigraphy from both piston-cores and Deep-Sea Drilling Project samples. Emphasis is placed on planktonic foraminifera and radiolaria species used as index species in the equatorial-tropical biozonation typified in Cretaceous and Cenozoic Caribbean sediments. Paleobiogeographic and paleoecologic considerations. Considerable time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GLY 4650 or permission of instructor.


GLY 5826 Hydrogeologic Modeling (3). Introduction to the techniques used in modeling groundwater flow and solute transport in geological 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 6150 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 isotopic data in solving geologic problems. Prerequisite: GLY 5246 or permission of instructor.

GLY 6328 Advanced Igneous Petrology (3). Interpretation of igneous rocks; chemistry and physics of magma generation and crystallization; origin of major igneous rock series with emphasis on tectonic controls. Prerequisite: Permission of instructor. Corequisite: GLY 6328L.

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

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

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

GLY 6447 Advanced Topics in Structural Geology and Tectonics (3). Detailed exploration of selected research topics in structural geology and tectonics. Prerequisites: GLY 5446 or permission of instructor.

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

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

GLY 6485 Physics of the Earth (3). Properties and dynamics of the Earth's interior studied from a physical perspective. Topics include heat flow, fluid flow, earthquake seismology. Prerequisites: GLY 4450 and MAC 3313.

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

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and 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 DSDP/ODP 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 DSDP/ODP sites. Prerequisites: GLY 5621 or permission of instructor.

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

GLY 6690 Topics In Paleontology (3). Oral presentation and discussion of current research projects and relevant literature, with reports by members of the seminar. Prerequisite: GLY 5608 or permission of instructor.

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

OCG 6105 Advanced Marine Geology (3).

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

OCG 6280 Marine Sedimentary Petrology (3).

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

OCG 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 Cohen, Assistant Professor
John D. French, Assistant Professor
Howard Kaminsky, Professor Emeritus
Eric J. Leed, Associate Professor
Alex Lichtenstein, Assistant Professor
Felice Lifshitz, Assistant Professor
Brian Peterson, Associate Professor
Joyce S. Peterson, Associate Professor
Gerald Poyo, Assistant Professor
Darden Asbury Pyron, Associate Professor
Howard B. Rock, Professor
Warren T. Treadgold, Associate Professor

Master of Arts in History

The Department of History offers the M.A. degree, with concentration in one of the three culture areas: United States History, European History and Latin American History. 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 whatever additional requirements the University sets for admission to graduate work. Applications should include transcripts from any postsecondary institutions attended, GRE scores, and two (2) letters of recommendation.

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

Application materials from individuals seeking entrance for the Spring Term must be received by the Department of History no later than October 15. Applicants will be notified of the Department's decision no later than November 15.

1. Applicants to the M.A. degree program in History must have an undergraduate average of 3.0 (on a 4.0 scale) or 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.

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. A minimum of one Research Seminar (3 semester-hours).

4. Reading competence in a foreign language. Language competency is assessed in cooperation with the Department of Modern Languages. Courses required to meet the language competency requirement do not count toward the degree. The Latin American concentration requires proficiency in Spanish or
Graduate Research

A degree.

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).

b. Students must receive the grade of ‘B’ (3.0) or better for any course to count toward the degree.

c. A maximum of six semester-hours of HIS 5930 (Special Topics).

6. All students are required to take HIS 6128 (Historical Methods).

7. 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.

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

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

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

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

Report Option

1. A 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.

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.

3. The following limits are placed on accumulating credits towards the Master's degree:

   a. Students must receive the grade of ‘B’ (3.0) or better for the course to count toward the degree.

   b. HIS 5908 (Independent Study) is limited to three semester-hours.

   c. HIS 5930 (Special Topics) is limited to six semester-hours.

4. HIS 6128 (Historical Methods) is required of all students.

Core Courses

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

- AMH 5905 Readings in American History
- AMH 5915 Research in American History
- EUH 5905 Readings in European History
- EUH 5915 Research in European History
- LAH 5905 Readings in Latin American History
- LAH 5915 Research 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 6128 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.

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.

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 professors. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 5935 Topics In European History (3). An examination of specific themes or topics in European history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedules.) Prerequisite: Graduate standing.

HIS 5289 Comparative History (3). A study of specific topics in history that cut across regional, national, and chronological lines. The topics will change from semester to semester, and with a change in content, the course may be repeated. (The topic of the course will be announced in the yearly schedule).

HIS 5908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor.

HIS 5910 Advanced Research Seminar (3). Small group sessions will analyze particular subject areas in history, with the consent of the instructor.

HIS 5930 Special Topics (3). An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate Standing.
HIS 5940 Supervised Teaching (3). The students will work under the close supervision of a regular member of the faculty in a mentorial fashion. The supervision will cover various aspects of course design and delivery in History.

HIS 6128 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.

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.

LAH 5935 Topics In Latin American History (3). An examination of specific themes or topics in Latin American history. The topic 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.

International Relations

Ralph S. Clem, Professor and Chairperson
Ken I. Boodhoo, Associate Professor
Thomas A. Breslin, Associate Professor
Peter R. Craumer, Assistant Professor
Nancy E. Erwin, Assistant Professor
Damian J. Fernandez, Assistant Professor
Farrokh Jhabvala, Professor
Antonio Jorge, Professor

Charles G. MacDonald, Professor
Mohaddin Mesbahi, Assistant Professor
Susan 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
CPO-Comparative Politics; GEA-Geography-Regional (Area); GEO-Geography-Systemic; HFT-Hospitality, Food, Tourism; INR-International Relations; POS-Political Science; 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: GEA 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 5035 and ESC 5025.

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

International Studies

Susan Waltz, Director, International Studies

Participating Departments:
Lisa Perez, Chairperson, Anthropology / Sociology
Raul Moncarz, Chairperson, Economics
Mark Szuchman, Chairperson, History
Ralph Clem, Chairperson, International Relations
Joel Gottlieb, Chairperson, Political Science

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 semester hours)

CPO 5035 Politics of Development 3
EGS 5025 Economic Problems of Emerging Nations 3
INR 5607 International Relations and Development 3
P5706 Research Methodology 3
SYP 5447 Sociology of International Development 3

Electives

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

Thesis (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.

School of Journalism and Mass Communication

J. Arthur Heise, Professor and Director
Lillian Lodge Kopenhaver, Professor and Associate Director
William Adams, Associate Professor
Gerardo Botas, Deputy Executive Director, CAJP
James E. Couch, Associate Professor
Humerto Delgado, Assistant Professor
Charles Fair, Associate Professor
Alvin Goldstein, Associate Professor
Charles Green, Executive Director, Central American Journalism Project
Kevin Hall, Editor-in-Residence
David L. Martinson, Associate Professor
Debra Miller, Assistant Professor
Agatha Ogazon, Program Coordinator, CAJP
Patricia B. Rose, Associate Professor
Robert Rutenberg, Associate Professor

Mel Stein, Creative Director-In-Residence
Lorna Veraldi, Assistant Professor
Jack Virtue, Associate Executive Director, CAJP
William F. Wright, Associate Professor

Master of Science in Mass Communication

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
   b. Minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the junior and senior undergraduate years.

Graduate Record Examination (GRE): The GRE or, upon request from the candidate in certain cases, the Graduate Management Admission Test (GMAT) is required. Passing score for the GRE is at least 1000; passing score for the GMAT is 450. However, if the undergraduate GPA is higher, a lower GRE score can be accepted. No applicant will be fully admitted to the master's program if his or her GRE score is lower than 550.

Applicants who have taken the GRE more than five years from the date of admission have to repeat the GRE examination.

b. Professional experience in a field directly related to the specialization the student plans to pursue is an advantage. Applicants without such professional experience must complete additional undergraduate coursework. Some may be required to serve an internship with a professional organization. Applicants should contact the graduate coordinator in the appropriate area of specialization to find out what they must do to meet this requirement.

c. Three letters of recommendation sent to the student services coordinator. These letters should be from persons competent to judge the applicant's academic or professional record and potential for success as a professional in mass communication.

d. A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.

e. Competence in the fundamentals of statistics. Undergraduate coursework in statistics or quantitative social research may demonstrate this competence. Students without coursework in statistics will not be admitted to the graduate research course, MMC 5445.

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).

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 advisers, 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 adviser.

Writing Proficiency

During the first week of the first semester, students must take a writing proficiency exam, which includes grammar. 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.

Transfer Credit

Students may petition to transfer up to six hours of graduate credit toward the
degree. To be approved for transfer, the courses must have been taken at a regionally accredited college or university; the student's advisor must judge the courses relevant to the student's plan of study; the student must not have used the credits toward another degree; and the student must have earned a 'B' or higher in the courses. No transfer courses will substitute for the school's core courses.

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.

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 center around the Professional Project Seminar, to be taken during the final semester. Projects will be graded by an evaluation committee. Students must receive a 'B' or higher on the project. Students may also opt to do a thesis.

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. (Students receiving three credit hours for the Professional Project will be required to take one or two 3-credit electives, depending on the specialization.) No undergraduate credit in the field of journalism and mass communication may count toward these 36 hours.

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 must be at the graduate level (5000 or 6000 level).

3. Foreign students who have passed the TOEFL test with a score of 500 or higher but who are unable to use the English language on a professional level may substitute one advanced writing course with a course approved by their advisor.

In addition, to qualify for this rule, the foreign student has to demonstrate an acceptable level of skills in the language of origin.

Core Curriculum
All students, in all areas of specialization, must take 12 to 15 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 3-6

Journalism
The sequence 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 latter two categories will be required to complete necessary undergraduate journalism skills courses. They must complete a professional internship as part of their preparation 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 (print majors only) 3
- JOU 6197 Advanced Reporting Techniques 3
- JOU 6199 Advanced Public Affairs Reporting 3
- JOU 6931 Seminar on Special Topics 3

Student Media Advising
In addition to the core courses, students in the student media advising sequence must take the following courses:

- JOU 5806 Student Publications Supervision 3
- MMC 5207 Ethical and Legal Foundations of the Student Press 3
- VIC 5205 Trends in Graphics and Design 3

Students specializing in student media advising must take one or two additional 3-credit graduate courses in the school 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

Student Media Advising Certificate Program
This professional certificate program is designed primarily for journalism teachers and for student media advisers on all levels and for those aspiring to the profession. This program will satisfy the requirements of the certificate, re-certification or incentive credits for current public school teachers in the field.

The Certificate in Student Media Advising requires 15 credits to be taken as follows:

Required Courses:

- JOU 5806 Student Publications Supervision 3
- MMC 5207 Ethical and Legal Foundations of the Student Press 3
- VIC 5205 Trends in Graphics and Design 3

Elective Courses
Students must take two of the following:

- RTV 5936 Seminar in New Communication Technologies 3
- MMC 6402 Theories of Mass Communication 3
- MMC 6635 Contemporary Issues in Mass Communication 3
- JOU 6196 Advanced Writing Techniques 3
- PUR 4101 Publications Editing and Design 3
- JOU 4208 Magazine Editing and Production 3

or other courses upon approval of faculty advisor.
Course Descriptions

Definition of Prefixes

ADV-Advertising; FIL-Film; JOU-Journalism; MMC-Mass Media Communication; PGY-Photography; PUR-Public Relations; RTV-Radio-Television; VIC-Visual Communication.

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues.

ADV 6905C Advanced Creative Strategy and Tactics (3). Writing and visualization relevant to developing creative strategies for different media, clients and campaigns.

JOU 5806 Student Publications Supervision (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 of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication.

MMC 6402 Theories of Mass Communication (3). Examines theories and processes of mass communication. 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 media responsibility to society and the social responsibility of communicators. Analysis and evaluation of media ethics and performance. Prerequisite: Graduate standing.

MMC 6950 Mass Communication Professional Project (1-6). 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. Prerequisite: 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.

RTV 5606 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 society. Prerequisite: Graduate standing.

RTV 6309 Advanced Broadcast News (3). Advanced techniques, principles and issues of reporting for the electronic media, from spot news to documentaries. Prerequisite: Graduate standing.

RTV 6465C Field Production Practicum (3). The student will be responsible for the organization and complete pre-production, production, and post-production of his/her project(s). Prerequisite: Graduate standing.

RTV 6466C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

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.
Linguistics

Asher Z. Milbauer, Associate Professor and Chairperson, English
C. Kemp Williams, Assistant Professor and Director, English
Lynn M. Berk, Associate Professor, English
Isabel Castellanos, Associate Professor and Chair, Modern Languages
Virginia Gathercole, Associate Professor, English
Tometro Hopkins, Instructor, English
John B. Jensen, Associate Professor, Modern Languages
Peter A. Machonis, Associate Professor, Modern Languages
Mehmet Yavas, Associate Professor, English

Master of Arts in Linguistics

Admission Requirements

Applicants must meet the University’s graduate general admission 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:

1. Required Courses: (21)
   - LIN 5018 Introduction to Linguistics 3
   - LIN 5501 English Syntax 3
   - LIN 5206 Phonetics 3
   - LIN 6323 General Phonology (Prerequisite: LIN 5206) 3
   - LIN 6510 Generative Syntax I 3
   - LIN 6805 Semantics (Prerequisite: LIN 6510) 3
   - LIN 5146 Historical and Comparative Linguistics (Prerequisite: LIN 5206) 3
   - LIN 5107 History of the English Language
     or
   - FRE 5840 History of the French Language
     or
   - SPN 5840 History of the Spanish Language

2. The remaining hours must be selected from any graduate Linguistics offerings, including courses in the following areas:
   - Acoustic Phonetics
   - General Morphology and Syntax
   - Dialectology

3. Sociolinguistics
4. Psychology of Language
5. Language Acquisition
6. Second Language Acquisition
7. Language Contact
8. Studies in Bilingualism
9. Applied Linguistics
10. Language Universals
11. Cognitive Linguistics
12. Speech Errors and Linguistic Knowledge
13. Research Methods in Linguistics
14. Structure of a Non-Indo-European Language
15. Special Topics in Linguistics
16. Seminar (various topics)
17. Thesis (maximum of six hours)

Linguistic courses are taught in the Departments of English and Modern Languages. See those sections for specific course descriptions.

Foreign Language Requirement

Each student will be required to take a minimum of five semester hours of formal study of a foreign language not already known by the student or of Middle or Old English. The language to be studied will be decided on in consultation with the student’s advisor.

Examination Requirement

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

Thesis/Non-Thesis Options

Students may elect to follow a thesis or a non-thesis option. Those electing to write a thesis will take up to six credit hours in thesis research as part of their required 36 hours. When completed, the thesis will be defended orally before a committee made up of three faculty members, including the thesis director. Those electing to follow the non-thesis option will take all 36 hours in non-thesis courses.

Course Descriptions

Definition of Prefixes

LIN - Linguistics

LIN 5017 Cognitive Linguistics (3). Explores the nature of human reason and categorization as revealed by language. Examines the role of the 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 languages and modern approaches to their analysis.

LIN 5019 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. Diachrony and synchrony and their 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 the acoustic properties. Ear training in the phonetic transcription of speech sounds produced 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 speak-
ers 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 & practical approaches to second-language acquisition. Examination of hands-on 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 6378 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 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 taken for credit when content changes. Prerequisite: LIN 5501, English 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 who are 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 considered. Recent debate and theoretical aspects, including those concerning the nature of word meaning, presuppositional-assertional grammar, and Speech-Act theory, will be read and discussed. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 6905 Independent Study (VAR). This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Introductory course in Linguistics or permission of instructor.

LIN 6937 Seminar in Linguistics (3). Topics vary each semester. Prerequisite: A previous course in the same sub-area of Linguistics.

LIN 6971 Thesis (1-6). Prerequisite: Completion of all other requirements for the M.A. degree in Linguistics.

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Mathematics
Dev K. Roy, Associate Professor and Chairperson
Gerardo Aladro, Assistant Professor
William Calbeck, Assistant Professor
Mark L. Cooper, Assistant Professor
Domitilla Fox, Instructor
Susan Gorman, Instructor
Peter Holden, Assistant Professor
Steven M. Hudson, Assistant Professor
George Kaffkoulis, Assistant Professor
Mark Leckband, Associate Professor
Diana McCoy, Instructor
Abdelhamid Meziani, Assistant Professor
Richard Nadel, Instructor
J. Michael Pearson, Assistant Professor
Thanases Pheldas, Assistant Professor
Tage Ramsamujh, Assistant Professor
David Ritter, Associate Professor
Michael Rosenthal, Instructor
Richard L. Rubln, Associate Professor
Anthony C. Shershlin, Associate Professor
Minna Shore, Instructor
James F. Slifker, Associate Professor
W. Jay Sweet, Assistant Professor
Enrique Villamor, Assistant Professor
Willie E. Williams, Associate Professor
John Zwebel, Assistant 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 Queuing 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: (6 semester hours)
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. Successful completion of the master's project requires a grade of 'B' or higher, as well as approval of a committee consisting of three mathematics faculty (including the director).

Remarks: The coursework must be completed with a '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.

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Course Descriptions

Definition of Prefixes

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

COT 6400 Analysis of Algorithms (3). Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530.

MAA 5616 Introduction to Real Analysis (3). Lebesgue Measure and Integral with applications to Integral Transforms. Prerequisite: MAS 3105, MAA 4211, MAP 4401 or MAA 4212.

MAD 5405 Numerical Methods (3). Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and non-linear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3105 and MAP 3302.

MAP 5236 Mathematical Techniques of Operations Research (3). This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisite: MAP 5117 and MAS 3105 and either CGS 3420 or COP 2210.

MAP 5407 Methods of Applied Analysis (3). Convergence, fixed point theorems, application to finding roots of equations, normed function spaces, linear operators, applications to numerical integration, differential and integral equations. Prerequisites: MAA 4211, MAP 3302, and MAS 3105.

MAS 5145 Applied Linear Algebra (3). Concepts of finite dimensional vector spaces. Theorems that have infinite dimensional analogues and those with important applications are emphasized. Prerequisites: MAS 3105 and MAA 3200.

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.

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 designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 3313.

STA 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

Isabel Castellanos, Associate Professor and Chairperson
Irene Aragon, Instructor, (North Miami Campus)
Aurelio Baldor, Instructor
Rodolfo Cortina, Professor
James O. Crosby, Professor
Leonel A. de la Cuesta, Associate Professor
Lucia Helena, Visiting Associate Professor
Danielle Johnson-Cousin, Associate Professor
Elena de Jongh, Assistant Professor
Yvonne Guers-Villata, Professor Emeritus
John B. Jensen, Associate Professor
Peter A. Machonis, Associate Professor
Ramon Mendoza, Professor (North Miami Campus)
Ana Roca, Assistant Professor
Reinaldo Sanchez, Professor
Andree Stayman, Instructor
Marcella Welch, Associate Professor
Florence Yudin, Professor
Malda Watson Espener, Associate Professor

Master of Arts in Hispanic Studies

To be admitted into the Master's degree program, a student must:

1. Hold a Bachelor's degree in Modern Languages, Linguistics or one of the Social Sciences as related to the Hispanic world from an accredited university or college, or its equivalent;

2. Have a 3.0 GPA or higher during the last two years of the student's undergraduate program and a combined score (quantitative and verbal) of 1,000 or higher on the GRE. Students who have not taken the GRE may enroll in graduate courses in the cooperating departments; however, admission to the graduate program is conditional upon taking and receiving a score of 1,000 on the GRE within six months of the beginning of study;

3. Have the ability to speak both Spanish and English with near-native fluency;

4. 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;

5. Receive approval of the departmental graduate committee. Students with deficiencies will be advised to complete certain course work before beginning graduate work.

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.

Core Courses

LIN 5934 Special Topics in Linguistics 3
FOT 5805 Translation and Interpretation Arts 3
SPN 6505 Spanish Culture 3
SPN 5525 Spanish American Culture 3
SPN 6535 The Hispanic Presence in the United States 3

One course at the graduate level on Latin American sociology, anthropology, political science, or history, to be taken outside of the department.

The following are examples of courses that will satisfy this requirement. Each semester the department prepares a list of appropriate courses from among the offerings of the cooperating departments, which should be consulted prior to registration.

SOC 5338 Sociology of International Development 3
CPO 5035 The Politics of Development 3
HIS 5910 Urbanism in Latin America 3
ECS 5005 Comparative Economic Systems 3
ECS 5025 Economic Problems of Emerging Nations 3
ECS 5405 Economics of Latin America 3
CYP 6055 Theories and Research in Acculturation and Multiculturalism 3
CYP 6076 Psychology of Crosscultural Sensitization in a Multicultural Context 3
DEP 6145 Culture and Childhood 3
DEP 6450 Culture and Aging 3

Electives
A student must take at least nine graduate credits of electives from courses offered by the department, such as French or Spanish linguistics, literature and translation/interpretation, or from those offered by the departments of History, Political Sciences, Sociology/Anthropology, Economics, and Psychology.

Third Language
Students will be required to speak either French, Portuguese, or Haitian Creole at a level of general communication. Students who do not meet this requirement upon admission must begin their study of the third language in their first semester of study.

Graduation Requirements
To receive the Master's degree in Hispanic Studies, students must complete all the course work with a 3.0 GPA or higher, and must receive at least a 'B' in each of the core courses. After having completed 27 graduate credits (core and elective courses), students will have the option of writing a thesis (equivalent to six credits) or taking two courses or more and submitting a research paper. The thesis will be presented to an ad hoc committee chosen by the student and his or her advisor.

Course Descriptions
Definition of Prefixes
ARA-Arabic Language; CHI-Chinese Language; 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; GET-German Translation; HBR-Hebrew; ITA-Italian Language; ITT-Italian Translation; JPN-Japanese Language; LIN-Linguistics; POR-Portuguese Language; POW-Portuguese Literature (Writings); PRT-Portuguese Translation; RUS-Russian Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings).

(See English listing for additional Linguistics courses.) Application of basic language skills.

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 5557 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

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

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

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

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

FRE 5565 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals.

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 5906 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 5760 Research Methods in Linguistics (3). The collection and analysis of linguistic data: sampling techniques,
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 The Hispanic Presence in the United States (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.)

SPW 5426 Quevedo: Prose Satire (3). Close reading of selected satires 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 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 Martí, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

College of Arts and Sciences / 63
Physics

Richard A. Bone, Associate Professor and Chairperson
Yesim Darici, Assistant Professor
Rudolf Flebig, Associate Professor
Bernard Gerstman, Associate Professor
Kenneth Hardy, Professor
Wal Leung, Assistant Professor
Oren Maxwell, Associate Professor
Stephan L. Mintz, Professor
John W. Sheldon, Professor
Walter van Hamme, Assistant 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:

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

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

Course Descriptions

Definition of Prefixes

AST-Astronomy; PHS-Physics/Specialized; PHY-Physics; PHZ-Physics; PSC-Physical Sciences; ENU-Nuclear Engineering.

AST 5214 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.

PHY 5115 Mathematical Physics I (3). Methods of solution for problems in mathematical physics: Variational principles, complex variables, partial differential equations, integrals, equations, and transforms. Prerequisites: MAC 3313, MAP 3302.


PHY 5240 Advanced Classical Mechanics (3). Advanced formulations of the equations of motion and their applications: the central field problem, rigid body dynamics, oscillations and continuous systems. Prerequisite: PHY 4222.


PHY 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/Astronomy. 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 4606.

PHY 6524 Statistical Physics (3). Fundamental principles of statistical mechanics; fluctuations, noise and irreversible thermodynamics; kinetic methods and transport theory. Prerequisites: PHY 5303 and PHY 4222.

PHY 6645 Advanced Quantum Mechanics I (3). Advanced topics in quantum mechanics: Quantized systems, relativistic quantum mechanics, perturbation theory, symmetry transformations, conservation laws, group theory. Prerequisite: PHY 4605.

PHY 6646 Advanced Quantum Mechanics II (3). Additional topics in advanced quantum mechanics: Collision theory, atomic and electronic many-electron systems, long range potentials, electron-atom collisions. Prerequisite: PHY 6645.

PHY 6651 Quantum Scattering Theory I (3). The mathematical investigation of scattering problems: S-matrix theory, 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: Klein-Gordon field, Dirac field, vector fields, Interacting fields, CPT theorem, renormalization, gauge theory. Prerequisite: PHY 6646.

PHY 6669 Relativistic Quantum Field Theory II (3). Additional topics in relativistic quantum fields: Perturbation theory, U matrix, Wick's theorem, 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: Many body systems, Fock space, many-body perturbation theory, Random phase approximation, finite temperature formalism, hadrons. Prerequisite: PHY 6675.

PHY 6676 Quantum Theory of Many Particle Systems II (3). Additional topics in the physics of many particle systems: Fermi gas, Bose condensation, Hartree-Fock approximation, Random phase approximation, Quantum field theory, 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 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, crystalline surfaces, and amorphous materials. Prerequisites: PHY 3124 or CHM 3411.

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 5606 Special Relativity (3). 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 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.

Political Science
Joel Gottlieb, Associate Professor and Chairperson
Bruce Detwiller, Associate Professor
Eduardo Camarra, Assistant Professor
Antonio Jorge, Professor
Darío Moreno, Assistant Professor
Brian Nelson, Associate Professor
Nicol Rae, Assistant Professor
Mark Rosenberg, Professor
Cheryl Rubenberg, Associate Professor
Rebecca Salokar, Assistant Professor
John Stack, Professor
Judith H. Stehm, Professor and Provost
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 however 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; PUP-Public Policy.

CPO 5036 Politics of Development (5). 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 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 5037 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 5933 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 5158 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 Methodology (3). This course is an introduction to the principal concepts and techniques of qualitative and non-quantitative methodology in the Social Sciences. It is designed to familiarize the student with the language and format of qualitative and non-quantitative applications in order to permit stu-
dents to deal effectively with the literature of their field.

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 local policy-making processes, including 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 6934 Seminar in Politics (VAR). Subject matter varies according to instructor.

POS 6939 Seminar in Public Law (VAR). Graduate seminar on special topics in public law. Topic to be announced in advance.

POS 6976 Thesis (1-6). Requires students to enroll for thesis or dissertation research for at least one credit hour each semester in which they are engaged in such research. Prerequisites: All other coursework for the Master of Science in International Studies.

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 6934 Topics in Public Policy (1-6). A rigorous examination of a topic in public policy. Subject matter varies according to instructor. Topic will be announced in advance.

PUP 6007 Seminar in Public Policy (1-6). Graduate seminar on special topics dealing with public policy analysis. Subject matter varies according to instructor. Topic to be announced in advance.

Psychology
Paul Foos, Associate Professor and Chairperson
Lorraine Bahnick, Associate Professor
Milton Blum, Professor Emeritus
Brian Cutler, Associate Professor
Marvin Dunn, Associate Professor
Joan Erber, Professor
Luis Escovar, Associate Professor
Gordon Finley, Professor
Ronald Fisher, Professor
Arthur Flexser, Associate Professor
Scott Frasier, Associate Professor
Jacob Gewirtz, Professor
Edward Girden, Distinguished Professor Emeritus
Fernando Gonzalez-Relgosa, Associate Professor
David Kravitz, Assistant Professor
William Kurthines, Professor
Mary Levitt, Associate Professor
Gary Moran, Professor
Janet Parker, Associate Professor
James Rotkin, Associate Professor
Juan Sanchez, Assistant Professor
Bernard Saper, Professor
Wendy Silverman, Associate Professor

Master of Science in Psychology
The Masters of Science in Psychology program at the University is designed to train practitioners and researchers who can function in a variety of applied settings. The core curriculum and admission prerequisites are intended to provide students with a base of knowledge in psychology. A distinctive feature of the program is its emphasis on a close working relationship between student and faculty. Under faculty supervision, students are encouraged to develop individually tailored programs of study that reflect both student interests and program strengths.

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

Doctor of Philosophy in Psychology
The doctorate program in psychology has a two-fold focus: (1) Life-span development (2) applied psychology. The program emphasizes normal development as well as cross-cultural and urban perspectives on the life span and legal and industrial/organizational applied psychology. The emphasis is on academic quality and the curriculum is designed to foster a commitment both to basic research and to application as an integral part of the individual student's specialty area development. The curriculum offers a broad background in life-span development and applied psychology while encouraging the development of an area of specialization early in graduate training.

Students are expected to master a series of core-course requirements designed to facilitate a thorough grounding in theory, methodology, and content both in basic and applied research. In addition, a number of seminars reflecting specialized faculty interests 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 or a total score (quantitative plus verbal) of 1000 or higher on the GRE for the Master's degree and 1100 or higher for the Ph.D. degree, or both. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 500 score of higher.

2. The GRE and 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.

Graduate Admissions Procedures
Applicants must submit the following to the Graduate Studies Admission Committee, Department of Psychology, Florida International University, Miami, Florida 33199:

1. A photocopy of the admission application submitted to the Admissions Office.

2. A brief essay stating the reasons for the interest in the program and career goals.
3. Three letters of recommendation, preferably from previous instructors and/or persons familiar with applicant's academic background.

Applicants to the program who are not psychology majors may be accepted conditionally until they meet the category requirements, listed below, early in their graduate career. A maximum of nine semester hours credit earned in the non-degree seeking student category exclusive of prerequisite undergraduate courses may be applied to graduate degree requirements. The undergraduate course requirements are designed to make certain that students accepted into the graduate program have a broad base of dependable psychological knowledge and acquaintance with the basic methodologies upon which the discipline is founded.

Category A: Satisfactory completion of one psychology laboratory or research methods course.

Category B: Satisfactory completion of introductory upper division statistics.

Course Descriptions

Definition of Prefixes
CLP: Clinical Psychology; CYP: Community Psychology; EAB: Educational Psychology; EDP: Educational Psychology; EXP: Experimental Psychology; INP: Industrial and Applied Psychology; LIN: Linguistics; PPE: Psychology for Counseling; PPE: Psychology of Personality; PSB: Psychobiology; PSP: Psychology; SOP: Social Psychology; SPA: Speech Pathology and Audiology.

CLP 5165 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if feasible) are covered.

CLP 5175 Personality Dynamics (3). A review of different approaches to the study of personality dynamics and of the related therapeutic modalities. Special consideration is given to psychoanalysis and neo-psychoanalysis. Other therapeutic models which influence current psychological thought are also considered. Prerequisites: Successful completion of a course in theories of personality, or equivalent. Permission of instructor.

CLP 5185 Current Issues in Mental Health (3). A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming, and administering mental health services; political, ethical, and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisites: Abnormal Psychology or permission of the instructor.

CLP 6168 Psychopathology Across the Life-Span (3). Exploration of the causes of psychopathology from a life-span developmental orientation and implications for theories of personality. Prerequisites: CLP 5165 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 6165 or equivalent of either.

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

CLP 6438 Psychological Assessment (3). Theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, and personality testing. May be repeated for credit with different subject matter. Prerequisite: STA 3112 and permission of instructor.

CYP 5534 Groups as Agents of Change (3). Theory and practice in utilizing groups as agents of change or development in communities and organizations. Didactic presentation and structured exercises focus on relevant issues. Students design and implement problem-focused interventions, using class as client system.

CYP 5535 Psychology of Institutional and Social Change (3). A study of the theoretical basis and strategies applied to the process of effecting social change in community institutions involved in the delivery of human services.

CYP 5954 Community Psychology Field Experiences I (5). Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

CYP 6055 Psychological Theories and Research on Acculturation and Multiculturalism (3). A review of theories and research on acculturation and multiculturalism concepts with an emphasis on those models that have generated a substantial body of empirical research. Stress will be placed on the implications of these findings for community stability and disruption as well as the implications for the delivery of human services in multicultural settings.

CYP 6526 Psychological Methods of Program Evaluation (3). Development of skills for the psychological assessment monitoring and evaluation of human service programs with emphasis on the application of basic principles of behavioral science research in the field, exclusive of public school settings.

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

CYP 6766 The Psychology of 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 5055 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 5059 Biological Basis of Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or permission of instructor. Corequisite: Proseminar courses.

DEP 5069 Applied Life Span Developmental Psychology (3). This course is designed to acquaint the student with various applications in life-span developmental psychology. An overview of general issues and areas of application is offered, and specific applications are considered. Prerequisite: Graduate standing or permission of instructor.

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

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

DEP 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging including: biological changes, social processes, work, family, cognition, memory, personality, and psychopathology. Prerequisite: Graduate standing or permission of instructor.

DEP 5608 Theoretical Perspectives In Developmental Psychology (3). The focus of this course is on the major paradigms, models, and theories that have been influential in developmental psychology, both historically and contemporaneously. Meta-theoretical issues, paradigmatic influences, and specific theories are considered. Prerequisite: Graduate standing or permission of instructor.

DEP 5725 Research Seminar In Psychosocial Development (1). This course is designed to develop research skills and competencies in the area of psychosocial development. The emphasis of the course is on involvement in original research. Prerequisite: Permission of Instructor. Corequisite: Senior undergraduate or graduate standing.

DEP 5796 Methods of Developmental Research (3). Survey of issues and methods at all stages of life-span developmental research including theory, methods, design, and data reduction. Prerequisite: Graduate standing or permission of Instructor. Corequisite: Proseminars.

DEP 6069 Seminar in Life-Span Cognitive Developmental (3). This graduate seminar will examine, through intensive reading and seminar discussion, the major theories, issues and empirical research on cognitive growth, change and decline from infancy through old age. Prerequisites: Two courses in Developmental Psychology (any level).

DEP 6096 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.

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

DEP 6145 Psychology of Culture and Childhood (3). Extensive cross-cultural readings will serve as the focus for seminar discussion of cultural influences on children's biological, motor, perceptual, cognitive, social, and personality development. Prerequisite: Graduate standing or permission of instructor.

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

DEP 6438 Gerontological Assessment (3). This seminar for advanced graduate students involves an intensive examination of the theory, validity, and reliability of the major assessment instruments in gerontology. Prerequisite: Graduate standing.

DEP 6465 Psychology of Culture and Aging (3). An intensive examination of cultural influences on social and psychological aging processes including minority aging and involving seminar discussion and independent projects. Prerequisite: Graduate standing.

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

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

DEP 6645 Cognitive and Language (3). Course covers the acquisition of cognitive processes and language, and their interdependence. Theory and research focusing on innate vs. learned aspects are discussed. Prerequisite: Graduate standing or permission of instructor.

DEP 6836 Current Literature In The Psychology of Infancy, Childhood, and Adolescence (3). This seminar will present and evaluate current research articles in the major journals in infant, child, and adolescence psychology. Prerequisite: Second year graduate standing.

DEP 6837 Current Literature In The Psychology of Adulthood and Aging (3). This seminar will present and evaluate current research articles in the major journals in the psychology of adulthood and aging. Prerequisite: Second year graduate standing.

DEP 6945 Life-span Developmental Psychology Practicum (3). This is an individually tailored program where students will work in an agency on a specific problem or project, culminating in a final written report. Prerequisite: Second year graduate standing.

EAB 5555 Advanced Methods of Behavior Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of responder and operant conditioning, as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior ther-
apy, relaxation therapy, behavior modification, biofeedback or similar behavioral approaches. Prerequisites: EAB 4794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or permission of instructor.

E69 35 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 5005 Advanced Experimental Psychology Lecture (2)
EXP 5005L Advanced Experimental Psychology Lab (3). Lecture and laboratory courses investigating experimental research in the fundamental processes of human behavior. Includes perceptual, cognitive, and linguistic processes. Prerequisites: PSY 3212 and STA 3212 or STA 3111.

EXP 5099 Proseminar In Experimental Psychology (3). Provides a comprehensive review of current research and theory in areas such as learning, memory, cognition, sensation, and perception. Prerequisite: Graduate standing or permission of instructor.

EXP 5406 Theories of Learning (3). The major theoretical systems of learning are covered, with the intent of determining how well each accounts for the phenomena of learning. Emphasis is placed on exploring the controversial issues raised by extant theories, and the experimental resolution of these theoretical controversies. The impact of theory on current thinking about learning is considered.

EXP 5508 Applied Cognitive Psychology (3). Covers the basic theories of cognitive psychology perception, attention, memory, learning, knowledge, with emphasis on application to real-world problems. Prerequisite: Graduate Standing.

EXP 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 6136 Psychology of Legal Consultation (3). Practice in basic non-clinical areas in which psychologists assist attorneys, including jury selection, surveys, and simulations. Prerequisite: INP 6098 or equivalent.

INP 6940 Strategies and Methods of Applied Psychological Research (3).


Sociology/Anthropology

Lisandro Perez, Associate Professor and Chairperson
Jerry Brown, Associate Professor
Janet Chemela, Associate Professor
Stephan Fjellman, Professor
Chris Girard, Assistant Professor
Hugh Gladwin, Associate Professor
Guillermo Grenier, Associate Professor
James Ito-Adler, Assistant Professor
Antonio Jorge, Professor
A. Douglas Kincaid, Assistant Professor
Barry Levine, Professor
Kathleen Logan, Associate Professor
Shearon Lowery, Associate Professor
Anthony P. Malagot, Professor
James Mau, Professor and Acting Provost
Betty Morrow, Associate Professor
William Osborne, Associate Professor
Patricia Pessar, Associate Professor
Alejandro Portes, Patricia and Phillip Frost Endowed Professor
Alex Stepick, Associate Professor
William T. Vickers, Professor
Lois West, Assistant Professor

Master of Arts in Comparative Sociology

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 the file is complete.

Applications for admission are evaluated by the Departmental Graduate Studies and Assistantship Committee. Admissions are competitive, so the number 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):

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SYA 6125</td>
<td>Classical Social Theories</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6126</td>
<td>Contemporary Social Theories</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6305</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SYA 6306</td>
<td>Research Methods II</td>
<td>3</td>
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<tr>
<td>SYA 6925</td>
<td>Graduate Colloquium in</td>
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<td>Comparative Sociology (3</td>
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Four electives in Sociology and Anthropology (must be at the 5000-level or higher) 12

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

SYA 6975 Thesis 6

Graduation Requirements

To remain in good standing and to qualify for graduation, students must maintain a graduate GPA of 3.0 or higher. All M.A. course requirements must be met and a thesis must be completed and accepted after presentation to a Thesis Committee chosen by the student's and the Thesis advisor. All requirements for the M.A. in Comparative Sociology, including the successful defense of the thesis, must be completed within six years of the first enrollment in the graduate program.

Course Descriptions

Definition of Prefixes


ANT 5316 American Culture and Society (3). Anthropoligical analysis of the cultures and subcultures of the United States, focusing on the social, ethnic, and regional organizations and their corresponding value and symbolic systems. Prerequisite: Graduate status or permission of instructor.

ANT 5496 Social Research and Analysis (3). A graduate overview of the scientific methods used in intercultural studies. Includes the philosophical basis of science, research design, and hypothesis testing using both secondary and original data. Students will conduct a research project in this course. Prerequisite: Graduate status or permission of the instructor.

ANT 5548 Ecological Anthropology (3). Theories of human adaptation, including environmental determinism, possibilities, cultural ecology, materialism, and evolutionary ecology. Credit for both ANT 3403 and ANT 5548 will not be granted. Prerequisite: Graduate standing or permission of the instructor.

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

ANT 5915 Directed Field Research (VAR). Permission of instructor required.
ANT 6931 Seminar on Latin America (3). Analysis of Latin American cultures and classes using case studies. Students read a series of anthropological or sociological works and discuss them in a seminar format. Prerequisite: Graduate standing or permission of instructor.

ANT 6932 Seminar In Human Ecology (3). Analysis of human ecology using case studies. Students read a series of works on human adaptations and discuss them in a seminar format. Prerequisite: ANT 3403 or ANT 6548 or equivalent.

SYA 5135 Sociology of Knowledge (3). The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior.

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

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

SYA 6125 Classical Social Theories (3). Classical social theories of the 19th and early 20th centuries. Includes the ideas of such thinkers as Spencer, Comte, Durkheim, Marx, Weber, Simmel, Pareto, Morgan, Tylor and Boas. Prerequisite: Graduate standing or permission of instructor.

SYA 6126 Contemporary Social Theories (3). The major currents and trends in contemporary sociological theory. Emphasis on the application of theories to specific research issues and practices. Prerequisite: Graduate standing or permission of instructor.

SYA 6305 Research Methods I (3). The first in a two course sequence on research methods in comparative sociology. Includes research design and hypothesis testing, participant observation, interviewing techniques and survey research. Prerequisite: Graduate standing or permission of instructor.

SYA 6306 Research Methods II (3). The second in a two-course sequence on research methods in comparative sociology. Includes the quantitative analysis of sociological research data, and the preparation of written reports and articles. Prerequisite: SYA 6305 and STA 3111 or STA 6166 or equivalent.

SYA 6925 Graduate Colloquium in Comparative Sociology (1). Colloquium 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: SYA 6625 and SYA 6305.

SYA 6975 Theses (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). The examination of women's and men's roles, statuses, 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 (2). 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 the instructor.

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

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, Instructor
Gauri L. Chal, Associate Professor
Ina Parks Howell, Lecturer
Laura Relsert, Instructor
Samuel S. Shapiro, Professor and Associate Dean
Hassan Zahedi-Jasbi, Associate Professor
Jyoti N. Zalkikar, Assistant 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 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 not be granted. Prerequisite: STA 3322 or STA 3164 or STA 3033 or (STA 3163 and STA 3321).

STA 5207 Topics in Design of Experiments (3). This applied course in design of experiments covers topics such as split-plot design, confounding, fractional replication, incomplete block designs, and response surface designs. Prerequisite: STA 5206.

STA 5236 Regression Analysis (3). Simple, multiple and polynomial regression, analysis of residuals, model building and other related topics. Credit for both STA 4234 and STA 5236 will not be granted. Prerequisites: STA 3164 or STA 3123 or STA 3112, and MAS 3105.

STA 5446-STA 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov chains, (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 3313.

STA 5505 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and 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 mathematical techniques which are used in reliability engineering. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions in reliability (exponential, binomial, extreme value, etc); tests of hypotheses on 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, queuing 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 6246 Data Analysis I (3). Exploratory data analysis; testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 3322, or STA 6327.

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

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

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

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

STA 6940 Supervised Statistical Consulting (3). Formulation of statistical problems from client information, consulting session management, interpersonal aspects of consulting, problem solving techniques. Prerequisites: Permission of instructor, STA 4102, STA 6247, and STA 6327.

STA 7707 Multivariate Methods I (3). Multivariate normal, Wishart and Hotelling's distributions. Inferences for one and two mean vectors. Profile analysis. One- and two-way MANOVA. Multivariate multiple regression. Prerequisite: STA 3123 or STA 3112.

Visual Arts
William Maguire, Professor and Chairperson
Ralph F. Buckley, Associate Professor
William Burke, Associate Professor
James M. Cooper III, Professor
Carol Damlan, Instructor
Eduardo Del Valle, Associate Professor
Richard Duncan, Associate Professor
Mirta Gomez, Associate Professor
Ellen Jacobs, Professor
Juan Martinez, Instructor
Dehila Morgan, Lecturer/Art Museum Director
Manuel Torres, Associate Professor
Barbara Watts, Assistant Professor
Sandra Winters, Assistant 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.

ART 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.

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

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

ART 5133C Ceramics (3). A creative approach to fabrics and fibers, using processes such as dyeing, embroidery, quilting, soft sculpture, batik, on and off loom weaving, etc. 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, silkscreen 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 38310 and ART 3803C. May be repeated.

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

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

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

ART 5910C Research (1-6). Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted. May be repeated.

PGY 5420C Photography (3). An advanced course for majors and accomplished non-majors. Includes demanding critique of student's work. May be repeated. Prerequisite: PGY 3410C or permission of instructor.

College of Arts and Sciences

Dean (Acting), Arthur W. Herriott
Associate Dean, Curriculum and Advisement, Fred Bouma
Associate Dean, Budget and Development, Samuel Shapiro
Associate Dean, North Miami, Joyce Peterson
Director, School of Computer Science, Jainendra Navlakha
Director, School of Journalism and Mass Communication, J. Arthur Heise

Chairpersons and Program Directors:

Biological Sciences, Walter Goldberg
Chemistry, Leonard Keller
Economics, Raul Moncarz
English, Asher Milbauer
Environmental Studies, John Parker
Geology, Florentin Maurrass
History, Mark Szuchman
Humanities, Ramon Mendoza
International Relations, Ralph Clem
International Studies, Susan Waltz
Liberal Studies, Janat Parker
Mathematics, Dev Roy
Modern Languages, Isabel Castellanos
Music, John Augenblick
Philosophy and Religious Studies, Bruce Hauptt
Physics, Richard Bone
Political Science, Joel Gottlieb
Psychology, Paul Foos
Sociology and Anthropology, Lisandro Perez
Statistics, Carlos W. Brain
Theater and Dance, Marilyn Skow
Visual Arts, William Maguire

Faculty

Adams, William, M.A. (University of Wisconsin-Madison), Associate Professor, School of Journalism and Mass Communication
Aladro, Gerardo, Ph.D. (Pennsylvania State University), Assistant Professor, Mathematics
Antrim, Harry, Ph.D. (University of Florida), Professor, English
Aragon, Imenia, M.A. (Temple University), Instructor, Modern Languages
Arefi, 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, Patricia M.A. (Indiana State), Instructor, Theatre and Dance
Barrett, Lynn, M.F.A. (University of North Carolina-Greensboro), Associate Professor, English
Barton, David, Ph.D. (University of Cambridge), Professor, School of Computer Science
Beer, Michelle, Ph.D. (University of Pittsburgh), Associate Professor, Philosophy and Religious Studies
Berk, Lynn, Ph.D. (Purdue University), Associate Professor, English
Berk, Toby, Ph.D. (Purdue University), Professor, and Associate Director, School of Computer Science
Bigger, Charles, Ph.D. (Florida State University), Associate Professor, Biological Sciences
Blum, Milton, Ph.D. (New York University), Professor Emeritus, Psychology
Bone, Richard, Ph.D. (University of West Indies, Jamaica), Associate Professor and Chairperson, Physics
Boodoo, 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
Breslin, Thomas A., Ph.D. (University of Virginia), Associate Professor, International Relations, and Vice Provost
Brick, John, Ph.D. (University of Miami), Assistant Professor, Music
Brooke, Lee, B.S. (The Juilliard School), Assistant Professor, Theatre and Dance
Brown, Jerry, Ph.D. (Cornell University), Associate Professor, Sociology/Anthropology
Buckley, Ralph, M.F.A. (Maryland Institute), Associate Professor, Visual Arts
Burke, William, M.F.A. (State University of New York at New Paltz), Associate Professor, Visual Arts
Calbeck, William, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Mathematics
Caravajal, Manuel, Ph.D. (University of Florida), Professor, Economics
Carrington, Jane, B.F.A. (The Juilliard School), Assistant Professor, Theatre and Dance
Casines, Gisela, Ph.D. (University of Florida), Associate Professor, English
Castellanos, Isabel, Ph.D. (Georgetown University), Associate Professor and Chairperson, Modern Languages
Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences
Chen, Ling, M.S. (Tongji University, People's Republic of China), Instructor, Statistics
Chernela, 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
Citone, Rocco, M.A. (San Diego State University), Instructor, Theatre and Dance
Clem, Ralph, Ph.D. (Columbia University), Professor, and Chairperson, International Relations
Clement, Bradford, Ph.D. (Columbia University), Assistant 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
Connor, Charles, Ph.D. (Dartmouth College), Assistant Professor, Geology
Copp, Mark L., Ph.D. (University of Georgia), Assistant Professor, Mathematics
Correll, Helen, Ph.D. (Duke University), Research Scientist, Biological Sciences
Corina, Rodolfo, Ph.D. (Case Western Reserve University), Professor, Modern Languages

Couch, James E., M.S. (Florida State University), Associate Professor, School of Journalism and Mass Communication
Couper, James, M.A. (Florida State University), Professor, Visual Arts
Cova, Luis, Ph.D. (Princeton University), Assistant Professor, School of Computer Science
Craemer, Peter, Ph.D. (Columbia University), Assistant Professor, International Relations
Crosby, James, Ph.D. (Yale University), Professor, Modern Languages
Cruz, Robert, Ph.D. (University of Pennsylvania), Assistant Professor, Economics
Cuervo, Leon, Ph.D. (University of Maryland), Professor, Biological Sciences
Cutler, Brian, Ph.D. (University of Wisconsin-Madison), Associate Professor, Psychology
Dalrymple, George, Ph.D. (University of Toronto), Associate Professor, Biological Sciences
Darnell, Carol M.A. (University of Miami), Instructor, Visual Arts
Darici, Yesim, Ph.D. (University of Missouri), Assistant Professor, Physics
Daruwala, Maneck, Ph.D. (University of Rochester), Associate Professor, English
de Alonso, Irma, Ph.D. (University of York, England), Associate Professor, Economics
de Jongh, Elena, Ph.D. (Tulane University), Assistant Professor, Modern Languages
de la Cuesta, Leonel A., Ph.D. (Johns Hopkins University), Associate Professor, Modern Languages
Delgado, Eduardo, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts
Delgado, Humberto, M.A. (Goddard College), Assistant Professor, School of Journalism and Mass Communication
Delgado, Milagros, Ph.D. (University of Miami), Assistant Professor, Chemistry
Detwiler, Bruce, J.D., Ph.D. (Cornell University), Associate Professor, Political Science
Downum, Kelsey, Ph.D. (University of British Columbia), Associate Professor, Biological Sciences
Draper, Grenville, Ph.D. (University of the West Indies), Professor, Geology
Draper, Paul, Ph.D. (University of California-Irvine), Assistant Professor, Philosophy and Religious Studies
Dutrenie, John, M.F.A. (University of Arkansas), Assistant Professor, English
Duncan, Richard, M.F.A. (Southern Illinois University), Associate Professor, Visual Arts
Dunn, Marvin, Ph.D. (University of Tennessee), Associate Professor, Psychology
Dunscomb, Richard, M.M.E. (Millikin University), Professor, Music
Dwyer, Richard, Ph.D. (University of California at Los Angeles), Professor, English
Ege, Raimund, Ph.D. (Oregon Graduate Center), Assistant Professor, School of Computer Science
Elkins, Charles, Ph.D. (Southern Illinois University), Professor, English and Vice Provost
Elkins, Mary Jane, Ph.D. (Southern Illinois University), Associate Professor, English
Endel, Peggy, Ph.D. (Cornell University), Associate Professor, English
Erber, Joan, Ph.D. (St. Louis University), Associate Professor, Psychology
Eust, John, Ph.D. (University of Virginia), Assistant Professor, English
Erwin, Nancy, Ph.D. (University of Florida), Assistant Professor, International Relations
Escobar, Luis, Ph.D. (Pennsylvania State University), Associate Professor, Psychology
Espino, Maria Dolores, Ph.D. (Florida State University), Associate Professor, Economics
Fair, Charles, Ph.D. (Ohio University), Associate Professor, School of Journalism and Mass Communication
Fernandez, Damian J., Ph.D. (University of Miami), Assistant Professor, International Relations
Flebig, Rudolf, Ph.D. (University of Munster), Associate Professor, Physics
Fink, Philip, Ph.D. (University of Miami), Professor, Music
Finley, Gordon, Ph.D. (Harvard University), Professor, Psychology
Fisher, Jack B., Ph.D. (University of California at Davis), Research Scientist, Biological Sciences
Fisher, Robert, Ph.D. (University of Kansas), Professor Emeritus, School of Computer Science
Fisher, Ronald, Ph.D. (Ohio State University), Professor, Psychology
Fjellman, Stephen, Ph.D. (Stanford University), Associate Professor, Sociology/Anthropology
Flexser, Arthur, Ph.D. (Stanford University), Associate Professor, Psychology
Foos, Paul, Ph.D. (Bowling Green State University), Associate Professor and Chairperson, Psychology
Fox, Dmytillia, M.S. (University of Miami), Instructor, Mathematics
Fraser, Scott, Ph.D. (University of Akron), Associate Professor, Psychology
Free, Mary, Ph.D. (University of Georgia), Associate Professor and Associate Chairperson, Psychology
Franch, John, Ph.D. (Yale University), Assistant Professor, History
Furton, Kenneth, Ph.D. (Wayne State University), Assistant Professor, Chemistry
Gamarra, Eduardo, Ph.D. (University of Pittsburgh), Assistant Professor, Political Science
Gamble, Richard, Ph.D. (Texas Tech University), Associate Professor, Theatre and Dance
Garcia, Orlando, D.M.A. (University of Miami), Assistant Professor, Music
Gathercole, Virginia, Ph.D. (University of Kansas), Associate Professor, English
Gerstman, Bernard, Ph.D. (Princeton University), Associate Professor, Physics
Gewirtz, Jacob, Ph.D. (State University of Iowa), Professor, Psychology
Ghol, Gauri, Ph.D. (Iowa State University), Associate Professor, Statistics
Girard, Chris, Ph.D. (University of Wisconsin), Assistant Professor, Sociology/Anthropology
Girden, Edward, Ph.D. (University of Illinois), Distinguished Professor Emeritus, Psychology
Gladwin, Hugh, Ph.D. (Stanford University), Associate Professor, Sociology/Anthropology
Goldberg, Walter, Ph.D. (University of Miami), Professor and Chairperson, Biological Sciences
Goldstein, Alvin H., M.A. (New York University), Associate Professor, School of Journalism and Mass Communication
Gomez, Mirta, M.F.A. (Brooklyn College, City University of New York), Associate Professor, Visual Arts
Gonzalez-Relgosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology, and Dean, Undergraduate Studies
Goodspeed, Timothy, Ph.D. (University of Maryland), Assistant Professor, Economics
Gordon, Kenneth, Ph.D. (University of California, Davis), Associate Professor, Biological Sciences
Gorman, Susan, Ph.D. (University of Maryland), Instructor, Mathematics
Gotterer, Malcolm, D.B.A. (Harvard University), Professor Emeritus, School of Computer Science
Gottlieb, Joel, Ph.D. (University of California at Riverside), Associate Professor and Chairperson, Political Science
Grenler, Guillermo, Ph.D. (University of New Mexico), Assistant Professor, Sociology/Anthropology
Grenler, Robert, D.M.A. (University of Rochester), Assistant Professor, Music
Guerra-Villate, Yvonne, Ph.D. (Bryn Mawr College), Professor Emeritus, Modern Languages
Hall, James, Ph.D. (University of Utah), Professor, English
Hall, Kevin, B.A. (Fordham University), Editor-in-Residence, School of Journalism and Mass Communication
Hann, Robert, Ph.D. (Temple University), Associate Professor, Philosophy and Religious Studies
Hardy, Kenneth, Ph.D. (Tulane University), Professor, Physics
Harligal, Peter, M.F.A. (University of Massachusetts), Instructor, English
Hauptli, Bruce, Ph.D. (Washington University), Associate Professor and Chairperson, Philosophy and Religious Studies
Halse, J. Arthur, Ph.D. (Syracuse University), Professor and Director, School of Journalism and Mass Communication
Helena, Lucila, Ph.D. (The Federal University of Rio de Janeiro), Associate Professor, Modern Languages
Henley, Carol, M.S. (University of Miami), Instructor, School of Computer Science
Henley, Kenneth, Ph.D. (University of Virginia), Associate Professor, Philosophy and Religious Studies
Herrera, Rene, Ph.D. (Fordham University), Assistant Professor, Biological Sciences
Herring, David, M.A. (Trinity University), Assistant Professor, Theatre and Dance
Herrlott, Arthur, Ph.D. (University of Florida), Professor, Chemistry and Acting Dean, College of Arts and Sciences
Hickey-Vargas, Rosemary, Ph.D. (Massachusetts Institute of Technology) Associate Professor, Geology
Kelley, Bruce, Ph.D. (University of Massachusetts at Amherst), Assistant Professor, Economics

Kincald, A. Douglas, M.A. (University of North Carolina), Assistant Professor, Sociology/Anthropology and Associate Director, Latin American and Caribbean Center

Knapp, Jeffrey, M.A. (University of Miami), Instructor, English

Kopenhaver, Lillian L., Ed.D. (Nova University), Professor and Associate Director, School of Journalism and Mass Communication

Koptur, Suzanne, Ph.D. (University of California), Associate Professor, Biological Sciences

Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy and Religious Studies

Kravitz, David, Ph.D. (University of Illinois), Assistant Professor, Psychology

Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor, School of Computer Science

Kuhn, David N., Ph.D. (University of California at Davis), Assistant Professor, Biological Sciences

Kurtines, William, Ph.D. (Johns Hopkins University), Professor, Psychology

Landrum, John, Ph.D. (University of Southern California), Associate Professor, Chemistry

Leckband, Mark, Ph.D. (Purdue University) Associate Professor, Mathematics

Lee, David, Ph.D. (Rutgers University), Associate Professor, Biological Sciences

Leed, Eric, Ph.D. (University of Rochester), Associate Professor, History

Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/Anthropology

Levitt, Mary, Ph.D. (Syracuse University), Associate Professor, Psychology

Lichtenstein, Alex, Ph.D. (University of Pennsylvania), Assistant Professor, History

Lifshitz, Felice, Ph.D. (Columbia University), Associate Professor, History

Loosalos, Panagis, Ph.D. (University of Pennsylvania), Professor, Economics

Lipner, Kenneth, Ph.D. (Rutgers University), Assistant Professor, Economics

Logan, Kathleen, Ph.D. (Bryn Mawr College), Associate Professor, Sociology/Anthropology and Women's Studies

Lopez de la Vega, Ramon, Ph.D. (University of Miami), Assistant Professor, Chemistry

Lowery, Shearon, Ph.D. (Washington State University), Associate Professor, Sociology/Anthropology

MacDonald, Charles, Ph.D. (University of Virginia), Professor, International Relations

Macnolich, Peter A., Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages

Mackey, Wesley, Ph.D. (University of Florida), Professor, Sociology/Anthropology

Malangot, Anthony, Ph.D. (University of Florida), Professor, Sociology/Anthropology

Magnuson, John, Ph.D. (Washington State University), Professor, Biological Sciences

Martinez, Juan A., M.A. (Florida State University), Instructor, Visual Arts

Martinson, David L., Ph.D. (University of Minnesota), Associate Professor, School of Journalism and Mass Communication

Mau, James A., Ph.D. (University of California at Los Angeles), Professor, Sociology/Anthropology and Acting University Provost

Maurer, David, Ph.D. (University of Pittsburgh), Lecturer, Biological Sciences

Maurasse, Fiorentin, Ph.D. (Columbia University), Professor and Chairperson, Geology

Maxwell, Oren, Ph.D. (State University of New York at Stony Brook), Associate Professor, Physics

McCormack, Kathleen, Ph.D. (University of Miami), Associate Professor, English

McCoy, Diana, M.A. (Case Western Reserve University), Instructor, Mathematics

McClellan, Clair, D.M.A. (Case Western Reserve University), Professor, Music

McIntire, Carmela Pinto, Ph.D. (Michigan State University), Associate Professor, English

Mendoza, Ramon, Ph.D. (Frei Universität Berlin), Professor, Modern Languages and Director of Humanities

Mesbah, Mohshin, Ph.D. (University of Miami), Assistant Professor, International Relations

Meziani, Abdelhamid, Ph.D. (Rutgers University), Assistant Professor, Mathematics
College of Arts and Sciences

Parker, Janat, Ph.D. (University of California at Berkeley), Associate Professor, Psychology and Director of Liberal Studies

Parker, John, Ph.D. (University of California at Berkeley), Professor, Chemistry and Director of Environmental Studies

Pasztor, Ana, D.R.N. (Darmstadt University, West Germany), Associate Professor, School of Computer Science

Pearson, J. Michael, Ph.D. (University of Texas at Austin), Assistant Professor, Mathematics

Pelin, Alexandru, Ph.D. (University of Pennsylvania), Associate Professor, School of Computer Science

Perez, Lisandro, Ph.D. (University of Florida), Associate Professor and Chairperson, Sociology/Anthropology

Pessar, Patricia, Ph.D. (University of Chicago), Associate Professor, Sociology/Anthropology

Pestalozza, Norman, M.S. (Pennsylvania State University), Instructor, School of Computer Science

Peterson, Brian, Ph.D. (University of Wisconsin), Associate Professor, History

Peterson, Joyce, Ph.D. (University of Wisconsin), Associate Professor, History and Associate Dean, College of Arts and Sciences

Pfeiffer, Dennis, Ph.D. (Duke University), Assistant Professor, Political Science

Plisko, Thomas, Ph.D. (Cornell University), Instructor, Biological Sciences

Poponee, John, Ph.D. (University of Maryland), Research Scientist, Biological Sciences

Portas, Alejandro, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Sociology/Anthropology

Post-Luria, Shelly, Ph.D. (University of Chicago), Assistant Professor, English

Poyo, Gerald, Ph.D. (University of Florida), Assistant Professor, History

Prabhakaran, Nagarajan, Ph.D. (University of Queensland), Associate Professor, School of Computer Science

Pyron, Darden, Ph.D. (University of Virginia), Associate Professor, History

Quackenbush, L. Scott, Ph.D. (Florida State University), Assistant Professor, Biological Sciences

Rae, Nicol, D.Phil. (Oxford University), Assistant Professor, Political Science

Ramsamujh, Teje, Ph.D. (California Institute of Technology), Assistant Professor, Mathematics

Ratner, Robert, M.A. (University of Miami), Instructor, English

Reisert, Laura, M.S. (University of Florida), Instructor, Statistics

Richards, Jennifer, Ph.D. (University of California, Berkeley), Associate Professor, Biological Sciences

Richardson, Laure, Ph.D. (University of Oregon), Assistant Professor, Biological Sciences and Drinking Water Research Center

Rishe, Naphatil, Ph.D. (Tel Aviv University, Israel), Associate Professor, School of Computer Science

Ritter, David, Ph.D. (Louisiana State University), Associate Professor, Mathematics

Roca, Ana, D.A. (University of Miami), Assistant Professor, Modern Languages

Rochelson, Meri-Jane, Ph.D. (University of Chicago), Assistant Professor, English

Rock, Howard, Ph.D. (New York University), Associate Professor, History

Rogerson, Kenneth, Ph.D. (University of California at San Diego), Associate Professor, Philosophy and Religious Studies

Rohm, Joseph, Ph.D. (Florida State University), Associate Professor, Music

Rose, Patricia, M.B.A. (University of Miami), Associate Professor, School of Journalism and Mass Communication

Rosenberg, Mark, Ph.D. (University of Pittsburgh), Professor, Political Science, and Director of Latin American and Caribbean Center

Rosenthal, Michael, M.S. (University of Miami), Instructor, Mathematics

Rotton, James, Ph.D. (Purdue University), Associate Professor, Psychology

Roy, Dev, Ph.D. (University of Rochester), Associate Professor, and Chairperson, Mathematics

Rubenberg, Cheryl, Ph.D. (University of Miami), Associate Professor, Political Science

Rubin, Richard, Ph.D. (Washington University), Associate Professor, Mathematics

Ruttenberg, Robert, M.A. (New York University), Associate Professor, School of Journalism and Mass Communication

Salazar-Carrillo, Jorge, Ph.D. (University of California at Berkeley), Professor, Economics and Director, Center of Economic Research and Education

Morgan, Dahla, Diplomate of College Teaching (University of Florida), Lecturer, Visual Arts and Director of The Art Museum

Moran, Gary, Ph.D. (Katholieke University, Nijmegen, Netherlands), Professor, Psychology

Moreno, Maria, Ph.D. (University of Southern California), Professor, Political Science

Morrow, Betty, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology

Murlison, Gerald, Ph.D. (Johns Hopkins University), Professor, Biological Sciences

Nadel, Richard, M.S. (Northwestern University), Instructor, Mathematics

Navalakha, Jalindra, Ph.D. (Case Western Reserve University), Professor and Director, School of Computer Science

Neal, Leslie, M.A. (Florida State University), Assistant Professor, Theatre and Dance

Nelson, Brian, Ph.D. (University of California at Riverside), Associate Professor, Political Science

Norstog, Knut, Ph.D. (University of Michigan), Research Scientist, Biological Sciences

O’Brien, Mary Ellen, M.F.A. (Tulane University), Assistant Professor, Theatre and Dance

Oberbauer, Steven, Ph.D. (Duke University), Assistant Professor, Biological Sciences

Okubo, Case, Ph.D. (University of Guelph), Associate Professor, Biological Sciences

Osborne, William, Jr., Ph.D. (Emory University), Associate Professor, Sociology/Anthropology

Owen, Claudia, Ph.D. (University of Washington), Lecturer, Geology
Salokar, Rebecca, Ph.D. (Syracuse University), Assistant Professor, Political Science

Salvador, Miguel, D.M.A. (University of Miami), Assistant Professor, Music

Sanchez, Juan, Ph.D. (University of South Florida), Assistant Professor, Psychology

Sanders, Roger, Ph.D. (University of Texas at Austin), Research Scientist, Biological Sciences

Sanchez, Reinaldo, Ph.D. (Washington University), Professor, Modern Languages

Saper, Bernard, Ph.D. (University of California at Los Angeles), Professor, Psychology

Sauleda, Orlando, M.S. (Florida International University), Instructor, School of Computer Science

Schwartz, Richard, Ph.D. (University of Chicago), Associate Professor, English

Sen, Gautam, Ph.D. (University of Texas at Dallas), Associate Professor, Geology

Sevilla, Carlos, Ph.D. (Stanford University), Assistant Professor, Economics

Shapiro, Samuel S., Ph.D. (Rutgers University), Professor, Statistics and Associate Dean, College of Arts and Sciences

Sheldon, John, Ph.D. (Texas A&M University), Professor, Physics

Sershon, Anthony, Ph.D. (University of Florida), Associate Professor, Mathematics

Shore, Minna, Ph.D. (Leningrad Technical Institute), Instructor, Mathematics

Silverman, Wendy, Ph.D. (Case Western Reserve University), Associate Professor, Psychology

Silverstein, Ronn, M.A. (Sir George Williams University, Montreal), Instructor, English

Skow, Marilyn, M.Ph. (Columbia University), Associate Professor and Chairperson, Theatre and Dance

Slifker, James, Ph.D. (University of Notre Dame), Associate Professor, Mathematics

Sprechman, Ellen, Ph.D. (University of Miami), Lecturer, English

Stack, John, Jr., Ph.D. (University of Denver), Professor, Political Science

Standford, Lester, Ph.D. (University of Utah), Associate Professor, English and Director, Creative Writing Program

Stayman, Andre, M.A. (University of Miami), Instructor, Modern Languages

Steln, Miel, B.A. (Hofstra College), Lecturer/Creative Director-in-Residence, School of Journalism and Mass Communication

Steppick, Alex, Ph.D. (University of California at Irvine), Associate Professor, Sociology/Anthropology

Stiem, Judith, Ph.D. (Columbia University), Professor, Political Science and University Provost

Sugg, Richard, Ph.D. (University of Florida), Professor, English

Sun, Wei, Ph.D. (University of Illinois-Chicago Circle), Assistant Professor, School of Computer Science

Sweet, William, Ph.D. (University of Maryland), Assistant Professor, Mathematics

Szuchan, Mark, Ph.D. (University of(submitted text continues)
Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages

Zahedi-Jasbi, Hassan, Ph.D. (University of California at Riverside), Associate Professor, Statistics

Zalkikar, Jyotin, Ph.D. (University of California at Santa Barbara), Assistant Professor, Statistics

Zweibel, John, Ph.D. (Columbia University), Assistant Professor, Mathematics
College of Business Administration

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

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

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

Master's Degree Programs

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

The graduate programs of the College offer the student advanced professional education for managerial careers in business and government. At the Master's level, the degrees of Master of Accounting, Master of Business Administration, Master of International Business, Master of Science in Finance, Master of Science in Management Information Systems, 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 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 and Master of Science in Management Information Systems
   (b) Complete a minimum 40 semester hours of graduate level coursework, for the Master of Business Administration or 39 semester hours for the Master of International Business.
4. Earn a minimum average of 'B' (3.0) in all approved courses in the student's program of study.
5. No courses in which a grade below 'C' is earned may be counted toward the Master of Science in Taxation, MBA, MIB, MSF, M.S. in MIS, or other courses must be taken at a graduate level at an accredited college or university.
6. A student may take up to 9 additional semester hours of graduate level coursework at the College in any of the College's graduate programs without being formally admitted to a program.

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.

Time Limit

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

Change of Major

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

Master of Business Administration (MBA)

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

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

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

Seven Pre-Core Courses (21 hours)

- ACG 6026 Accounting for Managers
- ECP 6705 Managerial Economics I
- ECP 6715 Macroeconomic Forecasting for Management
- GEB 6645 Legal Environment of Business
- MAN 6569 Managerial Decision-Making
- MAR 6805 Marketing Management
- QMB 6603 Quantitative Methods in Management

Nine Core Courses (28 hours)

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

Four Elective Courses (12 hours)

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

CBA Unit | Concentration
---|---
Accounting | Accounting, Taxation
Decision Sciences and Information Systems | Management Information Systems, Operations Management
Finance | Finance
Management and International Business | Organizational Behavior, Human Resources Management, International Business
Marketing and Environment | Marketing

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

Doctoral Degree Programs

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

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

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

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

Major Areas of Concentration

- Accounting
- Decision Sciences and 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. A minimum score of 500 is required. See the General Admission Requirements for Foreign Students (undergraduate and graduate) in the Admission section of the catalog.

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

Degree Requirements

General degree requirements for all doctoral candidates are:

1. Demonstration of practical knowledge of research methods and procedures in the areas of statistics, economics, 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

Lewis F. Davidson, Professor and Director
Lucas S. Chang, Professor and Associate Director
Rolf Auster, Professor
Delano H. Berry, Instructor
William L. Campfield, Professor Emeritus
Jack L. Carter, Assistant Professor
Yong S. Choe, Assistant Professor
Manuel Dieguez, Instructor
Mortimer Dittenhoefer, Professor
Donald W. Fair, Instructor and Associate Dean
Min H. Guo, Assistant Professor
Georgina Garcia, Lecturer
Rosalie C. Hallbauer, Associate Professor
Harvey S. Hendrickson, Professor
Kevin Kemerer, Assistant Professor
David Lavlin, Associate Professor
Myron S. Lubell, Associate Professor
Kenneth S. Most, Professor
Charles A. Nickerson, Professor
Leandro S. Nunez, Lecturer
Robert B. Oliva, Associate Professor
Felix 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, Instructor
Barbara T. Uslla, Instructor
Richard H. Wiskeman, Jr., Lecturer
John Wrieden, Lecturer
Harold E. Wyman, Professor and Dean
Shu Yeh, Assistant Professor
Doria Yeaman, Associate Professor

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6105</td>
<td>Accelerated Financial Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACG 6115</td>
<td>Accelerated Financial Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACG 6655</td>
<td>Auditing and Accounting Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACG 6345</td>
<td>Management Accounting and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUL 6124</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6005</td>
<td>Income Tax</td>
<td>3</td>
</tr>
</tbody>
</table>

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), 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 Career

Financial/Accounting/In the public accounting profession

Auditing Accounting systems, consultant, auditor, or officer in a business corporation or public accounting.

Systems Internal/Industry or Government internal auditor

Corporate/Management/An internal accountant, auditor, or officer in a business corporation.

Accounting

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6135</td>
<td>Seminar in Financial Accounting Theory</td>
<td>4</td>
</tr>
<tr>
<td>ACG 6657</td>
<td>The Environment of Accounting</td>
<td></td>
</tr>
<tr>
<td>ACG 6437</td>
<td>Advanced Accounting Systems</td>
<td></td>
</tr>
</tbody>
</table>

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
2. II sitting for the CPA examination, three courses, which include any 6000-level auditing course and these:

BUL 6116 Business Law
TAX 6015 Taxation of Corporations and Partnerships

3. Additional 6000-level courses approved by the Director of the School of Accounting with a minimum of four courses (12 semester hours) in a single concentration of financial accounting/auditing, systems, government accounting, or corporate/management accounting.

Master of Science in Taxation

The M.S.T. program is designed to prepare students for advanced work in the specialized area of taxation. Students may develop their own specializations. The final program of studies must be approved by the Director of the School of Accounting.

The M.S.T. program consists of two parts requiring 30 hours of coursework: tax core (12 semester hours); and electives (18 semester hours).

Tax Core Requirements

TAX 6005 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 auditing core courses, are not required to take TAX 6005 (Income Tax) as part of the accounting pre-core.

Florida State Board of Accountancy as meeting the requirements for the additional credit hours required for the CPA Examination. With a carefully planned program of study, a student who earns either a M.Acc. or a M.S.T., will be qualified to sit for the Certified Public Accounting Examination, and upon successful completion of the examination be certified in the State of Florida. There is no additional experience requirement.

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
Christas P. Koulamas, Assistant Professor
Jerzy Kyparlis, Associate Professor
Tomislav Mandakovic, Professor
Krishnamurty Muralllardhar, Assistant Professor
Elena Pernas, Instructor
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

Master of Science in Management Information Systems

The Master of Science in MIS program emphasizes advanced study in the analysis, design, implementation and overall management of information systems in organizations. This program is designed to prepare graduates for positions of advanced responsibility in both systems and user departments. The program is a natural extension of undergraduate study in business or computer science. Students with other backgrounds will normally require additional courses to satisfy the general College's requirements.

The M.S. in MIS program consists of courses in two areas:

Prerequisites: Seven courses (21 semester hours)
CGS 3403 COBOL for Non-Computer Science Majors 3
COP 2210 Programming in PASCAL 3
MAN 6051 Organization and Management 3
ACG 6026 Accounting for Managers 3
MAR 6805 Marketing Management 3
QMB 6603 Quantitative Methods in Management 3
ECP 6705 Managerial Economics 3

All of the courses listed above can be waived if they, or their equivalents, have been taken previously. Students may substitute "C" or a structured programming language (not FORTRAN or BASIC) for PASCAL.

Required Courses: 14 courses (40 semester hours)
ISM 6106 Systems Analysis 3
MAN 6569 Managerial Decision Making 3
MAN 6726 Policy Analysis 3
ISM 6305 Information Systems Planning 3
ISM 6205 Data Structures and File Processing 3
ISM 6105 Information Systems Analysis and Design 3
ISM 6405 Decision Support Systems 3
ISM 6045 Current Economic and Social Implications of Information Systems 3
MAN 6911 Research in Systems Development 3
MAN 6501 Operations Management 3
FIN 6428 Financial Management 3
MAN 6830 Organization Information Systems 3
MAN 6830L Organization Information Systems Lab 1
QMB 6845 Simulation of Management Systems 3

A minimum of 40 hours is required for graduation. This may be reduced to 30 hours for students with a graduate degree in Business Administration or related area. Graduation requirements include a minimum overall GPA of 3.0. Courses with a grade below a 'C' will not be accepted for graduate credit.

Finance

Arun Prakash, Professor and Chairperson
Gary Anderson, Assistant Professor
Robert Bear, Professor and Director, Broward Programs
William R. Beaton, Professor
Joel Barber, Assistant Professor
Chun-Hao Chang, Assistant Professor
Robert T. Dalgliesh, Associate Professor
Krishnan Dandapani, Assistant Professor
Karen Duhal, Assistant Professor
Shahid Hamid, Assistant Professor
James Keys, Instructor
Simon Pak, Associate Professor
All Parhizgari, Professor and Director, MBA Program
Emmanuel Roussakis, Professor
George B. Simmons, Distinguished Service Professor
Michael Sullivan, Assistant Professor
William Welch, Associate Professor and Associate 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-hour 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

Dana L. Farrow, Professor and Chairperson
Richard Ahlers, Instructor
Constance S. Bates, Associate Professor
Leonard H. Chuisman, Associate Professor
Gary Dessler, Professor
Herman Dorsett, Associate Professor
Earnest Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Jerry Haar, Associate Professor
Richard M. Hodgetts, Professor
William T. Jerome, Distinguished University Professor
William Jordan, Instructor
K. Galen Kroecb, Associate Professor and Director, Doctoral Studies
Jan B. Lutytes, Professor
Kari O. Magnusen, Associate Professor
Modesto A. Maldique, Professor and University President
Sherry Moss, Assistant Professor
Eleanor Polster, Instructor
Kannan Ramaswamy, Assistant Professor
William E. Renforth, Professor
Leonardo Rodriguez, Professor and Vice President, Business and Finance
Ronnie Silverblatt, Associate Professor
Christine Specter, Assistant Professor
George Sutliff, Associate Professor
William M. Taggart, Professor
Anil S. Thomas, Associate Professor
Enzo Valenzia, Professor

Master of International Business (MIB)

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 multinational composition of the students enrolled in the program. Qualified foreign students are actively recruited and the program seeks the active participation of foreign as well as domestic corporations through lectures by executives of these corporations or internships.

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

- MAN 6245 Organizational Behavior
- AGC 6026 Accounting for Managers
- MAR 6805 Marketing Management
- QMB 6603 Quantitative Methods in Management
- MAN 6830 Organization Information Systems
- MAN 6830L Organization Information Systems Lab
- ECP 6705 Managerial Economics
- MAN 6859 Decision-Making
- FIN 6428 Financial Management
- MAN 6608 International Business
Graduate with Non-Business Degree

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>ACG 6026</td>
<td>MAN 6245</td>
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<td>MAN 6608</td>
<td>MAR 6805</td>
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<td>ECP 6705</td>
<td>MAN 6569</td>
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<td>MAN 6830</td>
<td>QMB 6603</td>
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<tr>
<td>MAN 6830L</td>
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Graduate with Business Degree

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>ACG 6255</td>
<td>MAN 6617</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>MAN 6717</td>
</tr>
<tr>
<td>BUL 6631</td>
<td>MAN 6635</td>
</tr>
<tr>
<td>MAN 6603</td>
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</tbody>
</table>

In addition to the core, MIB candidates are required to take five electives. Two of the electives must be in one functional area (either within or outside the College of Business Administration), while the others may be taken in other areas. All electives must be approved by the advisor.

Students may choose their five electives so as to have a concentration or specialization within a particular area. For example, suggested course sequences for concentrations in International Banking Management of Science, Technology, and Innovation are given below:

International Banking concentration:

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

Management of Science, Technology, and Innovation concentration:

- MAN 6679 Master's Project in International Business
- MAN 6805 Entrepreneurship
- ISM 6045 Current Economic and Social Implications of Information Systems
- ISM 6305 Information Systems Planning
- MAN 6675 Special Topics in International Business

Other concentrations (e.g., in area studies) may be developed to meet a student's needs.

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

- Fall: ACG 6255, FIN 6636, MAN 6603, BUL 6631, MAN 6675
- Spring: FIN 6625, FIN 6626, MAN 6615, MAN 6675, ISM 6045
- Summer: MAN 6603, MAN 6604, ISM 6305, MAN 6675, MAN 6676

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 semester hours)

- ACG 5175 Issues and Problems in Accounting for Nonprofit Entities 3
- ACG 5395 Seminar in Managerial Accounting 3
- ACG 5656 Operational Auditing 3
- ACG 5657 Systems Auditing 3
- ACG 5695 Seminar in Accounting 3
- ACG 5805 Seminar in Financial Accounting 3
- ACG 5837 International Dimensions of Accounting and Auditing 3
- ACG 5695 Statistical Methods in Accounting and Auditing 3
- ACG 5005 Standards and Principles of Financial Accounting 3
- ACG 5356 Advanced Managerial Accounting 3
- ACG 5386 Controllership 3
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 these courses, 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

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FIN 3414</td>
<td>Intermediate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6426</td>
<td>Financial Management Policies</td>
<td>or</td>
</tr>
<tr>
<td>FIN 4303</td>
<td>Financial Markets and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6246</td>
<td>Financial Markets and Institutions</td>
<td>or</td>
</tr>
<tr>
<td>FIN 4324</td>
<td>Commercial Bank Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6315</td>
<td>Commercial Banking</td>
<td>or</td>
</tr>
<tr>
<td>FIN 4345</td>
<td>Credit Analysis and Loan Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6346</td>
<td>Credit Analysis</td>
<td>or</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

<table>
<thead>
<tr>
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<td>3</td>
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<tr>
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<td>Financial Management Policies</td>
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<td>FIN 4324</td>
<td>Commercial Bank Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6315</td>
<td>Commercial Banking</td>
<td>or</td>
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<tr>
<td>FIN 6325</td>
<td>Current Issues in Commercial Banking</td>
<td>or</td>
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<tr>
<td>FIN 4345</td>
<td>Credit Analysis and Loan Evaluation</td>
<td>or</td>
</tr>
<tr>
<td>FIN 6345</td>
<td>Credit Analysis</td>
<td>or</td>
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<tr>
<td>FIN 4604</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6636</td>
<td>International Finance</td>
<td>or</td>
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<tr>
<td>FIN 4615</td>
<td>International Banking</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6625</td>
<td>International Bank Management</td>
<td>or</td>
</tr>
</tbody>
</table>

Applicants with a Bachelor's Degree who are interested in pursuing a Master's degree in Finance should take FIN 6426, FIN 6636, FIN 6625, and either FIN 6315, FIN 6325, or FIN 6345 rather than FIN 3414, FIN 4324 or FIN 4345, FIN 6604, FIN 4615.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MAN 6608</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6635</td>
<td>International Business Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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; RIE - Risk 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 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 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 government financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress. Prerequisites: 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 MOB 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 5596 Accounting for Specialized Governmental and Nonprofit Entities (AC) (3). Survey course by guest lecturers covering detailed accounting concepts, procedures, and reporting for enterprise fund entities, educational entities, and unique types of internal service funds. Prerequisites: 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 of systems controls. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

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

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

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

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

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

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

ACG 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: QMB 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 pro-
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 definition, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisite: ACG 4201 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. Prerequisites: 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. Prerequisite: ACG 6026 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 health care, transportation, financial institutions real estate and construction. Prerequisites: ACG 4111 or equivalent, ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisite: ACG 4201 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 School Director.

ACG 6300 Accounting for Decision Making (AC) (3). The uses and limitations of accounting data as sources of information for managerial decisions. Prerequisite: ACG 4600.

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 6308, 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 controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisite: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6385 Managerial Control and Controllership (AC) (3). Control methods for management: control structure, planning and forecasting for budgets; the functions of controllership, including cash management, risk management, investments, tax administration and record 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 6445C 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
with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with a undergraduate accounting degrees.

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

ACG 6675 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. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6676 Advanced Internal Auditing (AC) (3). Special topics in internal auditing such as forensic auditing, management consulting, work with external auditors, ethics, multinational aspects, evaluation methods, quality control, new technologies and recent research. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6677 Applied Internal Auditing (AC) (3). The expansion of the internal audit process into such areas as administrative and support functions; line functions such as research, sales, and production; and special areas such as compliance, budgeting and controls. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6696 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. Prerequisites: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

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

ACG 6845 Accounting and Quantitative Methods (AC) (3). Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: MAN 3503, OMB 3150 and ACG 4401, or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6875 Evolution of Accounting Thought (AC) (3). The cultural origins of accounting and its traditional controversies, from pre-historic time onward, and in an international context. Prerequisites: Admission to graduate program in School of Accounting or permission of School Director.

ACG 6885 Accounting Research and Reporting (AC) (3). Examine the projects relating to historical and current problems in public accounting practice, and preparation of appropriate reports in oral and written formats, under a variety of professional settings. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6905 Independent Study In Accounting (AC) (1-3). Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6935 Special Topics In Accounting (AC) (1-3). Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 7157 Seminar: Theory and Contemporary Research In Financial Accounting (AC) (3). An evaluative overview of the classical literature in financial accounting and the contemporary empirical research published in the
leading scholarly journals. Examined are income determination theories, normative accounting principles, accounting information and stock prices, and principal-agent relationships. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7177 Seminar: Accounting Information and Security Prices (AC) (3). An in-depth examination of accounting information and security prices within capital markets theory, including a thorough examination of the cross-sectional properties and time-series properties of accounting numbers and the importance of research findings and new developments in research methodology. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7436 Seminar: Information Value and Agency Research Accounting (AC) (3). An in-depth examination of the research paradigm and the associated empirical research in accounting and auditing. Examined are the issues of information value, risk aversion, risk sharing contracts, as well as accountability from the standpoint of monitoring contracts. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7695 Seminar: Contemporary Research in Management Accounting and Auditing (AC) (3). A broad overview of classical and contemporary empirical research in managerial accounting and auditing including budget and performance review, decision making, Information analysis, professional judgement, 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 judgement, 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 (eficiency 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 capitals and other time-related financial markets. This course is designed for Ph.D. students in accounting and business who already have advanced statistical and financial training, and serves as an introduction to other doctoral courses. Prerequisite: Permission of Ph.D. advisor.

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

BAN 5652 Savings and Loan Management (FI) (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 5105 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 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 6116 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 6124 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 6631 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 trans-
iers, and securities law. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

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

BUL 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 (FI) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 3403 or equivalent.

FIN 5473 Small Business Finance (FI) (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 (FI) (3). Discussion-oriented course; will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate obj-

jectives. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

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

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

FIN 6316 Management of Non-Bank Financial Institutions (FI) (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.

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

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

FIN 6426 Financial Management Policies (FI) (3). 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 6428 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: ACG 6003 or equivalent.

FIN 6436 Capital Budgeting and Long Term Resource Allocation (FI) (3). The theory of capital allocation at the level of the firm, and empirical findings. Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: FIN 6428 or equivalent.

FIN 6446 Competitive Strategy (FI) (3). Provision of tools for managerial decision-making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure and competitive strategy.

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

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


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 6428 or equivalent.

FIN 6516 Securities Analysis (Fl) (3). An analysis of contemporary securities markets and their operations. The determinants of the risk-reward structure of equity and debt securities. Prerequisite: FIN 6428 or equivalent.

FIN 6525 Portfolio Management (Fl) (3). Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 6516 or equivalent.

FIN 6625 International Bank Management (Fl, MA) (3). Management of the international banking function: setting goals and developing strategies, establishing an organizational structure and managing operations. International banking services. Foreign lending, risks, restraints, and portfolio considerations. International banking trends and implications for regulation.
FIN 6626 International Bank Lending Policies and Practices (Fl, MA) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans. Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio.

FIN 6636 International Finance (Fl, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and 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.

FIN 6804 The Theory of Finance (Fl) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multiple-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6428 or equivalent.

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

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

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

FIN 7507 Seminar in Futures Markets (Fl) (3). A comprehensive examination of the literature in futures markets. Emphasizes the structure and pricing of futures, and risk-management via hedging and arbitrage. Prerequisite: Permission of instructor.

FIN 7528 Seminar in Investments (Fl) (3). Examines analysis and measurement problems of investments. Includes the application of statistical techniques, current theoretical issues and empirical literature. Prerequisite: Permission of instructor.

FIN 7606 International Corporate Finance (Fl) (3). The study of topics of research interest to international financial decisions. Topics include foreign exchange risk, international financial markets, and foreign exchange market efficiency. Prerequisite: Permission of instructor.

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

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

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

FIN 7810 Financial Theory III (Fl) (3). This sequel to Financial Theory I and II focuses in on microfinance. Discusses issues primarily in corporate finance such as effects of taxation, agency theory, and signalling 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 (Fi) (3). Examines investment and portfolio theory, with emphasis on the historical development of the literature in this area and the recent analytical and empirical work. Prerequisite: Permission of 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, 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 signalling. 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 intermediation. 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 7906 Independent Study for Doctoral Students (1-15). Supervised research projects determined by professor.
and student. May involve conferences, supervised reading, and reports. Consent of sponsoring professor and chairperson required.

GEB 7916 Doctoral Research Project In Business (BA) (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. Prerequisites: 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) (3-15). 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 6051.

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; marshalling resources for achieving system objectives; analyzing the sub-components of the system and their respective objectives; and managing the system. Prerequisites: MAN 6830, CGS 3300, 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 flowcharting, data requirements analysis, data design, user friendly systems design. Systems design project. Prerequisites: ISM 6205 and ISM 6105.

ISM 6205 Data Structures and File Processing In Business (DS) (3). This course deals with major levels of data organization, data base management, Hierarchic and associative structures, file maintenance, and privacy and security measures and safeguards. Prerequisites: MAN 6830, CGS 3300, 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 the overall management of the information systems function. Prerequisites: MAN 6830 and MAN 6051.

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 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 contemporary microcomputers. Extensive usage of available software for making business decisions. Emphasis on small business applications and cases, Student projects. Prerequisites: Computer programming proficiency, MAN 4504 and CGS 3300 or MAN 6501 and 6830.

ISM 6930 Special Topics In Management Information Systems (DS) (1-6). To study the recent developments in the MIS field not otherwise offered in the curriculum, such as office automation, computer graphics, etc. Prerequisites: Advanced standing and department chairman approval.

ISM 7126 Systems Analysis and Design (DS) (3). The process of analyzing information requirements and the design and implementation of software systems. Emphasis on the theoretical foundations of different systems development techniques.

ISM 7083 Deterministic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of deterministic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely charac-

terized by the need to allocate limited resources.

ISM 7087 Probabilistic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of probabilistic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely charac-

terized by the need to allocate limited resources.

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

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

ISM 7345 Organizational Impacts of Information Systems (DS) (3). Analysis of theory and research on the impacts of information systems on human behavior in organizations and upon organizational design.

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

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

MAN 5524 Advanced Production Management (DS) (3). More advanced methods in master planning, forecasting, capacity management, production activity scheduling/control, MRP and inventory management. This course has a professional orientation similar to the APICS certification guidelines. Prerequisite: MAN 4504 or MAN 6501, or Department Chairperson's approval.

MAN 5930 Seminar In Personnel Management (MA) (3). Overview and exami-
nation of the various aspects of the personnel management function.

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

MAN 6121 Interpersonal Behavior and Analysis (MA) (3). A human interaction/human relations training laboratory, designed to increase both self-awareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict.

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

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

MAN 6204 Organization and Management Theory (MA) (3). Analysis and design of the structure and process of complex organizations. Effects of task uncertainty, growth, power, goals, and information technology on organization structure and control.

MAN 6245 Organizational Behavior (MA) (3). Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions to improve organizational effectiveness. Research methods to study organizational behavior.

MAN 6265 Group Processes In Organizations (MA) (3). The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings.

MAN 6295 Conflict In Organizations (MA) (3). A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models as approaches to utilizing and resolving conflict toward constructive personal and 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 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 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 6559.


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 guest 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 uncovering 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 6005, MAN 6245, FIN 6428, and MAR 6805.

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 6717 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 6005, MAN 6245, FIN 6428, MAR 6805.

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. Prerequisites: Consent of faculty sponsor, Department Chairperson, and Dean.

MAN 6974 Master's Project in Management (MA) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College.

MAN 7146 Leadership I (MA) (3). Course identifies leadership theories and research bearing on modern management practice. Behavioral, situational and transformational theories of leadership are emphasized, compared and evaluated.

MAN 7147 Leadership II (MA) (3). Draws on research and case studies for understanding of adaptive leadership in turbulent, uncertain environments. Emphasis on effective management of innovation, entrepreneurial activity and new ventures.

MAN 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 Organizations (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 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: Admission to Doctoral program and completion of doctoral core.

MAN 7640 International Business Research Methods (MA) (3). Overview of IB academic research, emphasizing topics, literature, methods, information sources, applications, problems, and journal characteristics. Prerequisite: 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 7814 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.

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.

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 role in marketing strategy using detailed case studies on field sales management, working with channel organization, and planning and controlling sales operations.

MAR 6506 Advanced Consumer Behavior (ME) (3). Modern comprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes. Prerequisite: MAR 6816.

MAR 6646 Advanced Marketing Research (ME) (3). The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher. Prerequisite: MAR 6816 or permission of instructor.

MAR 6707 Current Issues in Marketing I (ME) (3). Iterative 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 credits hours of independent study in marketing. Prerequisite: MAR 6816.

MAR 6708 Current Issues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6707.

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
MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the dynamic interaction between marketing management and the corporate environment. Encourages development of an ability to design and implement effective marketing strategies.

MAR 7667 Seminar in Marketing Management (ME) (3). Analytical approaches to strategic and tactical marketing and public policy decisions. Emphasis is on relevant concepts from behavioral sciences as applied to marketing decisions.

MAR 7786 Seminar in Marketing Theory (ME) (3). Intensive analysis of the nature and role of hypotheses, generalizations, and empirical regularities. Critical examination of theories of marketing and interaction of marketing theory and practice.

MAR 7815 Seminar in Foundations of Marketing Thought (ME) (3). Foundations of marketing, interdisciplinary relationships; reviews major research areas: the marketing mix, consumer choice models, segmentation, stochastic, and analytical models.

MAR 7845 Seminar in Services Marketing (ME) (3). Analyzes the nexus between services and marketing management. Identifies and appraises alternative corporate strategies within industries such as banking and finance, insurance, hospitality, entertainment and leisure, health care, and education.

MAR 7875 Sectorial Marketing (MA) (3). Course includes retailing, wholesaling, pricing, distribution, advertising, sales promotion and management, personal selling, international services and macromarketing; and marketing and economic development.

MAR 7979 Doctoral Research in Marketing (ME) (1-6). Research while enrolled for a doctoral degree under the direction of faculty members. Prerequisite: Permission of Department.

QMB 6603 Quantitative Methods in Management (DS) (3). Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. Prerequisites: College Algebra and completion of the Computer Programming Proficiency requirement.

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

QMB 6845 Simulation of Management Systems (DS) (3). Basic concepts of computer simulation of systems; application of these concepts to a variety of management problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis, heuristic methods, and management games are covered. Prerequisites: MAN 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.

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. Prerequisites: 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
Graduate regulations state restrictions on tracts of land, affecting cash flow approaches. The impact of Federal taxation on real estate investment decisions. Prerequisites: Graduate standing and permission of instructor.

REE 6375 Seminar in Real Estate Investment and Taxation (Fl) (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 6375 Legal Environment of Real Estate (Fl) (3). Legal environment of real property ownership, transfer and brokerage; estate 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 (Fl) (3). Advanced theories and techniques of professional management of real estate; development of 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 (Fl) (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 (Fl) (3). Real estate development, acquisition of raw land; zoning; subdivision into sites; provision of utilities and services; financing; merchandising of improved sites. Emphasis on design and development of residential communities.

REE 6736 Real Estate Land Planning (Fl) (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 (Fl) (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 (Fl) (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 (Fl) (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 (Fl) (3). Defines distinction between industrial brokerage and general real estate brokerage. Role and functions of the industrial broker. Brokerage practice. Includes negotiating and leasing; regulations and ethics.

REE 6906 Independent Study in Real Estate (Fl) (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 (Fl) (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 (Fl, 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 (Fl) (3). Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by real estate faculty. Prerequisite: Permission of advisor.


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

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

RMI 6175 Mathematics of Life Insurance (Fl) (3). Present Values and Future Values of Lump Sums and Annuities. Mortality Tables Single Premiums, Annual Premiums and Net Level Premiums. Reserves, Nonforfeiture Values and Dividends. Prerequisite: MAC 3233 or equivalent.

RMI 6912 Independent Study in Insurance (Fl) (1-6). Supervised study of insurance or insurance-related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of faculty supervisor, Department Chairperson, and Dean required.

RMI 6936 Special Topics in Insurance (Fl) (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, mergers, attributes, consolidations, S-Corp, AET and PHC's. Prerequisites: Permission of Accounting certificate program advisor.

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

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

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

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

TAX 5904 Independent Study In Taxation (AC) (1-3). 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 of instructor, Accounting certificate program advisor, School director, and dean.

TAX 6005 Income Tax (AC) (3). A survey of federal income taxation, with emphasis on the taxation of individuals and corporations and the ethics of income tax accounting. Prerequisites: ACG 6115 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

TAX 6015 Taxation of Corporations and Partnerships (AC) (3). An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: TAX 4001 or equivalent with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director.

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 re-}

cceptions; elections of Subchapter S status. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6115 Taxation of Corporations II (AC) (3). The study of federal tax consequences of the liquidation and reorganization of corporations; multiple corporations; advanced topics in corporate taxation. Prerequisites: TAX 6065 and TAX 6105, and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6205 Partnership Taxation (AC) (3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited). Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6405 Estate and Gift Taxation (AC) (3). The study of the federal estate tax and federal gift tax provisions. Prerequisites: TAX 6065, and admission to a graduate program in the School of Accounting or permission of the School Director.

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

TAX 6445 Estate Planning (AC) (3). An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and 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 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6515 International Taxation II (AC) (3). Federal income tax provisions applicable to U.S. persons, business, and investment activities outside the U.S. Prerequisite: TAX 6505 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6605 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. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6835 Taxation of Deferred Compensation (AC) (3). The taxation of qualified and non-qualified pension and profit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6875 Current Developments In Taxation (AC) (3). The study of recent legislative, administrative and judicial developments in taxation. Prerequisites: TAX 6065 and at least four additional graduate tax courses and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6876 Transactions In Property (AC) (3). An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis on personal property transactions and securities investments. Prerequisites: TAX 6065 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6877 Seminar In Taxation (AC) (3). Intensive study of a particular topic or a limited number of topics. The topics included in this course will depend upon the availability of faculty with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: TAX 6065 and TAX 6805 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6905 Independent Study In Taxation (AC) (1-3). Individual conferences, supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the
School of Accounting or permission of the School Director.

TAX 6935 Special Topics in Taxation (AC) (1-3). Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

TAX 7726 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 or equivalent and permission of Accounting advisor.

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 of income distribution, business decisions, foreign balance of payments, public finance issues, and economic policy. Emphasized are the areas of empirical research via a legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 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 6035 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 6095 Independent Study in Transportation (AC) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

TRA 6936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

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### College of Business Administration

**Dean**

Harold E. Wyman

**Associate Dean**

Donald W. Fair

**Assistant Dean**

Anna M. Fiedler

**Director, School of Accounting**

Lewis F. Davidson

**Chairpersons:**

- Decision Sciences and Information Systems: Daniel Robey
- Finance: Arun J. Prakash
- Management and International Business: Dana L. Farrow
- Marketing and 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), Assistant Professor, Finance
- Auster, 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 and Director, Broad Programs
- Beaton, William R., Ph.D. (Ohio State University), Professor, Finance
- Berry, Delano H., M.B.A. (East Carolina University), CMA, Instructor, Accounting
- Campfield, William, Ph.D. (University of Illinois), CPA, Professor Emeritus, Accounting

**Course Descriptions**

- **TAX 6935 Special Topics in Taxation (AC) (1-3).** Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.
- **TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3).** Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.
- **TAX 7726 Tax Planning for Managers (AC) (3).** An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 or equivalent and permission of Accounting advisor.
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
</tr>
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<tbody>
<tr>
<td>Garcia, Georgina, M.S.M.</td>
<td>(Florida International University), CPA, Lecturer, Accounting</td>
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<tr>
<td>Gayle, Dennis J., Ph.D.</td>
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<td>Gilbert, G. Ronald, Ph.D.</td>
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<td>Greenberg, Barnett A., DBA</td>
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<td>Hallbauer, Rosalie C., Ph.D.</td>
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<td>Hamid, Shahid, Ph.D.</td>
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<td>Hendrickson, Harvey S., Ph.D.</td>
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<td>Hodgetts, Richard M., Ph.D.</td>
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Vasquez, Arturo, Ph.D. (Texas Tech University), Assistant Professor, Marketing and Environment

Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance, and Associate Director, Center for Banking and Financial Institutions.

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

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

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

Yeaman, Doria, J.D. (University of Tennessee), Associate Professor, Accounting

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 lead 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 changes.

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*
- Health, Physical Education and Recreation
- Middle, Secondary and Vocational Education
- Urban, Multicultural and Community Education

*(Name change pending Board of Regents approval)

Programs of studies include adult education and human resource development, art education, biology education, chemistry education, community college teaching, early childhood education, educational leadership, educational psychology (including counseling and school psychology), elementary education, English education, history education, international development education, mathematics education, modern language education, music education, parks and recreation management, physical education (teacher certification for grades K-8, teacher certification for grades 6-12, exercise physiology, 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, business teacher education, health occupations education, technology education, organizational training, post-secondary technical education, vocational home economics education, and vocational industrial education).

The College also administers the Urban Education Program. It is comprised of the Urban Education Certificate Program and the Master's Degree in Urban 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 curricula during the academic year, some curriculum changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General advisement is available by telephone: (305) 348-2758 for University Park, (305) 940-5820 for North Miami Campus, Broward residents may call (305) 523-4422 for North Miami Campus or 475-4156 for the Broward Program. Dade residents may call (305) 948-6747 for the Broward Program. Specific program advisement is available by prearranged personal appointment with advisors at all locations.

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

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 a bachelor's degree from an accredited college or university. Admissions requirements vary depending on the program. A GPA of 3.0 in the last 60 semester hours of undergraduate study or 1000 on the Graduate Record Examination (GRE) is required. Applicants must also satisfy Board of Regents admission requirements: A GPA of 3.0 in the last 60 semester hours of undergraduate study or 1000 on the Graduate Record Examination (GRE). Applicants admitted with a pending GRE score must submit a test score within one semester to be fully admitted or become a candidate for graduation. All applicants, regardless of GPA, must submit a GRE score.

Note: Specific programs may have higher standards for admission.

Prior to formal admission to a graduate program, students may be approved to take 12 semester hours of 6000 level graduate credit as non-degree seeking students, which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Graduate students will complete at least 30 semester hours of study to earn a Master of Science degree in education. However, specific programs may require more than the minimum number of hours. Students may transfer six semester hours taken at another accredited college or university toward a master's degree program having 30-45 semester hours, and 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 section.

Educational Specialist Degree Programs

The College offers Educational Specialist degree programs in Curriculum and Instruction and in Educational Leadership. 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 semester hours of thesis if that option is chosen.

Admission requirements and transfer of credit are the same as for the master's programs.

Other program requirements are contained in the program descriptions which may be obtained from each program leader.

Doctor of Education Degree Programs

The Doctor of Education degree is offered in Adult Education and Human Resource Development, Community College Teaching, Curriculum and Instruction, 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) 348-2770. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by exam-
The department also provides research preparation for College of Education graduate programs. The department graduate programs and support services exist to enhance the College of Education's role of a professional school within the University. The graduate programs and services provide access and offer excellence in professional preparation of educational leaders, researchers, and planners. The programs serve students who focus on South Florida's urban challenges; state of Florida cultural, economic, and social development; national educational policy development; and international cultural, economic, and social development through education.

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 Educational Leadership, and the Doctor of Education degree in Adult Education and Human Resource Development, Curriculum and Instruction and Educational Leadership. The department also offers a Certificate in Educational Leadership for students who possess a graduate degree from an accredited institution of higher education and who seek State of Florida Certification in Educational Leadership. Specialties in elementary, middle, secondary, and higher education may be included in programs of study.

The department offers work for students enrolled in other doctoral programs who seek a minor in educational leadership. Further, the College requirements that all doctoral students complete a minimum of 12 semester hours of research preparation establishes a substantive department role in all college doctoral programs.

The department offers graduate programs leading to the Master of Science, Educational Specialist, and the Doctor of Education degrees.

*(Name change pending Board of Regents approval)*

**Master of Science Degree Programs in Adult Education**

The Graduate Program in Adult Education and Human Resource Development is designed for the individual who chooses to serve as learning facilitator, training director, counselor, administrator, curriculum developer and/or researcher in adult education and human resource development 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.

The Department offers two master's degree programs in Adult Education: Administration and Supervision, and Adult Education: Human Resource Development. Two options are possible in the Administration and Supervision program: (1) Public School Administration, or (2) General Adult Education Administration/Non-Public School Administration (not a certification program).

Adult Education: Human Resource Development is designed for persons interested in the design, implementation, evaluation, and management of human resource development programs. One half (15 hours) of the program is required, and the other half consists of elective courses selected by the advisor in relation to the student's career goals.

**Adult Education: Administration and Supervision**

(For public school adult educators only)

**Required Program:** (30 semester hours)

**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
- EDG 6250 Curriculum Development and Improvement 3
- EDS 6050 Supervision and Staff Development 3
- Advised Elective 3

**Adult Education: Human Resource Development (HRD)**

**Required Program:** (30 semester hours)

**Required Core:** (15)

- ADE 5081 Introduction to Adult Education and Human Resource Development 3
- ADE 5180 Organizational Community Processes in AE/HRD 3
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ADE 5383 Instructional Processes in AE/HRD 3
ADE 5385 Adult Teaching and Learning 3
EDF 5481 Analysis and Application of Educational Research 3

Advised Electives 15

The candidate, with the approval of the advisor, will select courses that will increase competence in a specialty or a supportive social/behavioral science.

Master of Science in Educational Leadership

The Master of Science degree in Educational Leadership is awarded upon successful completion of all program requirements. The program consists of courses and experiences designed to develop entry level competencies for persons seeking Florida certification in Educational Leadership. The curriculum consists of the Florida Educational Leadership Core which contains competencies identified in the eight domains of effective school leadership. Also included are competencies for high-performing principals identified by the Florida Council on Educational Management. Specialized experiences in selected areas of school leadership corresponding to career aspirations of the candidate are reviewed. 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 and pass the Florida Educational Leadership Certification Examination.

Required Program: (36 semester hours)

EDF 5481 Analysis and Application of Educational Research 3
EDS 6115 School Personnel Management 3
Guided Electives 3

Six semester hours must be earned in one of the following areas: Early Childhood, Middle School, or Secondary School curriculum for state certification.

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 applicants background, professional interest, and career goals; (g) submit a short essay of approximately 250 words concerning the applicants background, professional interests and goals in the area of International Development Education.

Degree Requirements

The Master's program requires the completion of a minimum of 36 semester hours of coursework at the graduate level with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 36 semester hours are to be completed in accordance with the program curriculum.

Language Requirement

The student must demonstrate competency in the use of a modern language, other than English, prior to graduation. International students may demonstrate competency in their native language. Language courses will not count for credit toward program completion.

Required Program: (36)

Social Context of Education and Development: (6)
EDF 5850 International Development Education: Historical and Contemporary Reality 3

EDF 652 Educational Development Issues in Context: A Multidisciplinary Perspective 3

Educational Research and Evaluation Methods: (9)
EDF 5481 Analysis and Application of Educational Research 3
EDF 6486 Research Methods in Education: Experimental Design and Analysis 3
EDF 6475 Qualitative Foundations of Educational Research 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

Electives: (9)
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;
Elective Core (9-15)
Elective Core varies according to the participant's background and professional goals.

Research and Statistics. (24)

Curriculum and Instruction

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 files 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.

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
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 files 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 last two years of undergraduate work;
2. 2.5 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 the general aptitude portion 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
Doctorate programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs are planned by the participants, their major professor, and doctoral committee.

Required Core (18-24)
Adult Education and HRD includes such courses as comprehensive Adult Education and HRD planning, program development, instructional design, adult teaching and learning, Adult Education and HRD trends and issues, strategies, and research.
College of Arts and Sciences, or any other area offering courses relevant to the student's program.

Research and Statistics: (12)

Comprehensive Examinations and Advancement to Candidacy
The student must successfully pass comprehensive 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 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). Six credit hours of dissertation are taken per semester during the time that the dissertation is being completed.

EDG 7980 Doctoral Dissertation 24

Educational Administration
The doctoral program in Educational Administration and Supervision is designed for students who wish to pursue leadership roles in educational institutions. Among those roles are principals, supervisors, directors, and superintendents of public and independent schools; state, federal, and international agency administrators and staff; 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 Leadership.

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 score of 1000 on the GRE (verbal and quantitative).
5. Evidence of three years or more of successful and appropriate professional experience.
6. Three letters of recommendation to support the application for admission.
7. A statement that sets forth the applicant's career goals and relates those goals to the completion of the doctoral program.
8. In the case of a foreign student, a TOEFL score of at least 600 and a score of at least 470 on the verbal portion of the GRE.
9. An interview with program faculty that utilizes targeted selection methods.
10. Recommendation by the program faculty.

Program of Study
The program requires the completion of a minimum of 93 semester hours of academic work beyond the baccalaureate degree. Program requirements include the following:

Required Core Courses 18
Guided Electives in Educational Leadership 15
Minor/Cognate Area 15
Research and Statistics 12
Dissertation 24

Upon completion of the coursework, each student must pass a comprehensive 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 lucid fashion.

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6486</td>
<td>Research Methods in Education: Experimental Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 5166</td>
<td>Statistical Methods in Research I</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

- EDF 6403 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 programers. 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 5925</td>
<td>Workshop in Adult Education and Human Resource Development</td>
<td>1-6</td>
</tr>
<tr>
<td>ADE 5385</td>
<td>Adult Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5180</td>
<td>Organizational and Community Processes in AE/HRD</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5383</td>
<td>Development of Adult Education and HRD Programs II</td>
<td>3</td>
</tr>
<tr>
<td>ADE 5935</td>
<td>Special Topics in Adult Education and Human Resource Development</td>
<td>1</td>
</tr>
<tr>
<td>ADE 6930</td>
<td>Seminar in Adult Education and Human Resource Development</td>
<td>1-3</td>
</tr>
</tbody>
</table>

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
Graduate 3

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 objectives of the certificate are to meet the requirements of SBE 6A-4.082 (5) C which requires a "modified core Florida Educational Leadership program"; and to assist professional educators in meeting the State requirements for certification in Educational Leadership.

Required Courses: (24)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 6192</td>
<td>Leadership in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6195</td>
<td>Communication in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>School Law</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6242</td>
<td>School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6271</td>
<td>Administration and Application of Computers</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>School Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6250</td>
<td>Development and Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6050</td>
<td>Supervision and Staff Development</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6115</td>
<td>School Personnel Management</td>
<td></td>
</tr>
</tbody>
</table>

Educational Psychology and Special Education

Stephen S. Stinchart, Professor, Learning Disabilities and Chairperson

Wendy Cheyney, Associate Professor, Learning Disabilities

Marial Galvan, Associate Professor, Educational Psychology/Bilingual Education

Daniel A. Kennedy, Associate Professor, School Counseling

Phillip J. Lazarus, Associate Professor, School Psychology

Luretha F. Lucky, Associate Professor, Mental Retardation

David E. Nathanson, Professor, Gifted Education and Mental Retardation

Howard Rosenberg, Associate Professor, Mental Retardation

Donald C. Smith, Professor, Educational Psychology/School Psychology

Jethro W. Toomer, Professor, Educational Psychology/Community Counseling

Judith Jones Walker, Assistant Professor, Counselor Education, Educational Psychology

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 Counseling
Diagnostic Teaching: Emotional Disturbance
Diagnostic Teaching: Mental Retardation
Diagnostic Teaching: Specific Learning Disabilities
School Counseling
School Psychology

Doctor of Education

Exceptional Student Education

Master of Science Degree Programs

Educational Psychology

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

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 or school counseling. Both areas of specialization meet the standards recommended by the American Association for Counseling and Development and specialization in school counseling qualifies the graduate for the Florida School Guidance Certificate. The Community Counselor curriculum meets the master's degree requirement for eligibility towards licensure as a mental health counselor by the State of Florida.

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 well as a course in reading 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 program with an out-of-field undergraduate major must complete 18 hours of prerequisite coursework.

Community Counseling

Required Program: (60)

First Year: (27)
- EGC 6605 Professional Problems in Counseling 3
- EGC 5405 Introduction to Counseling 3
- EGC 6725 Human Interaction I: Group Process and Social Behavior 3
- EGC 6707 Applied Behavioral Analysis in Counseling and Education 3
- EDF 5481 Analysis and Application of Educational Research 3
- EGC 6726 Human Interaction II 3

Second Year: (33)
- EGC 6616 Program Evaluation in Counseling and Education 3
- EGC 6708 Advanced Counseling and Consultation: Theory and Practice 3
- EGC 6822 Advanced Practicum in Counseling and Education 3
- EGC 6676 Supervised Field Experience in Counseling 3
- EGC 6936 Seminar in Counseling and Education 3
- Advised Electives 3

Advised Electives: (8)

EGC 6205 Appraisal and Measurement in Counseling 3
EGC 5305 Educational-Vocational Counseling 3

School Counseling

Required Program: (60)

First Year: (27)
- EGC 6605 Professional Problems in Counseling 3
- EGC 5405 Introduction to Counseling 3
- EGC 6725 Human Interaction I: Group Process and Social Behavior 3
- EGC 6707 Applied Behavioral Analysis in Counseling and Education 3
- EGC 6726 Human Interaction II 3
- EDF 5481 Analysis and Application of Educational Research 3
- EEX 6051 Exceptional Children and Youth 3
- EGC 6203 Appraisal and Measurement in Counseling 3
- EGC 5305 Educational-Vocational Counseling 3
- EGC 6725 Human Interaction I: Group Process and Social Behavior 3
- EGC 6726 Human Interaction II 3

Second Year: (33)
- EGC 6616 Program Evaluation in Counseling and Education 3
- EGC 6708 Advanced Counseling and Consultation: Theory and Practice 3
- EGC 6822 Advanced Practicum in Counseling and Education 3
- EGC 6676 Supervised Field Experience in Counseling 10
- EGC 6469 Counseling the Culturally Different 3
- EGC 6936 Seminar in Counseling and Education 3
- Advised Electives 3

Advised Electives: (8)

EGC 6205 Appraisal and Measurement in Counseling 3
EGC 5305 Educational-Vocational Counseling 3

Electives and Independent Study 3

School Psychology

The program in School Psychology requires 60 semester hours and leads to State of Florida certification as a specialist in School Psychology as well as educational requirements for private licensure. 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: (60)

EGC 6707 Applied Behavioral Analysis in Counseling and Education 3
EGC 6708 Advanced Counseling and Consultation: Theory and Practice 3
EEX 6227 Diagnostic Teaching: Educational Assessment 3
SPS 6805 Professional Problems and Issues in School Psychology 3
SPS 6191 Psycho-Educational Assessment I: Intellectual 3
SPS 6191L Psycho-Educational Assessment I: Lab 3
SPS 6192 Psycho-Educational Assessment II: Process 3
SPS 6192L Psycho-Educational Assessment II: Lab 3
SPS 6193 Psycho-Educational Assessment III: Behavior 3
SPS 6193L Psycho-Educational Assessment III: Lab 3
EGC 6616 Program Evaluation in Counseling and Education 3
EGC 6678 Supervised Field Experience School Psychology 10
EGC 6936 Seminar in Counseling and Education 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.

A student with an undergraduate major in education is encouraged to select electives in the social and behavioral sciences. Other students must meet requirements in general professional education to meet State of Florida certification requirements.

Special Education

The Department offers master's degree programs that prepare individuals to teach exceptional children and youth. Emphasis is given to the development of skills in assessment, prescriptive pro-
gramming, behavior management, consultant and group leadership skills.

Program applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 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.

Programs are offered in Exceptional Student Education: Diagnostic Teaching (Mental Retardation, Emotional Disturbance, and Specific Learning Disabilities). All programs are approved by the State of Florida and allow students completing the program to be eligible for certification by the State. Courses leading to certification in the areas of the Gifted are also offered.

Exceptional Student Education: Diagnostic Teaching

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 on-going 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 staffing and IEP; e) supervision 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 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 Program: (36)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6050</td>
<td>Curriculum Planning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6227</td>
<td>Assessment of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6211</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6535</td>
<td>Seminar in Special Education: School Administration</td>
<td>3</td>
</tr>
<tr>
<td>EMR 6852</td>
<td>Advanced Theory and Practice: Mental Retardation</td>
<td>3</td>
</tr>
<tr>
<td>ELD 6323</td>
<td>Advanced Theory and Practice: Specific Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EED 6226</td>
<td>Advanced Theory and Practice: Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6846</td>
<td>Diagnostic Teaching: Advanced Practice</td>
<td>3</td>
</tr>
<tr>
<td>EEX 5771</td>
<td>Independent Living and the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>EEX 5250</td>
<td>Reading for Exceptional Learners</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 3221</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4251</td>
<td>Educational Planning for the Mentally Retarded or</td>
<td>3</td>
</tr>
<tr>
<td>ELD 4240</td>
<td>Educational Planning for Specific Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EED 4227</td>
<td>Educational Planning for Emotionally Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4611</td>
<td>Behavioral Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6106</td>
<td>Diagnostic Teaching: Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

EEX 4861 Student Teaching 12

A student who does not hold nor is currently eligible for a Florida Teaching certificate must also complete all certification requirements as stipulated by the State Department of Education.

Doctor of Education in Exceptional Student Education

The Doctoral Program in Exceptional Student Education offers specialties in the following areas: Administration; Curriculum Development; and Research.

Admission Requirements

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6937</td>
<td>Seminars in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6208</td>
<td>Medical Aspects of Exceptionality</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6301</td>
<td>Research in Cognitive Processes of Handicapped Students</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6203</td>
<td>Advanced Psycho-Social Aspects of Exceptionality</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6535</td>
<td>Seminar in Special Education School Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
### Program for Guidance Certification

To provide a means of obtaining the Florida Guidance Certificate (K-12) for those who already possess a Master's degree in Education and do not wish to pursue a second Master's degree.

**Entrance Requirements**

1. Master's degree in Education.
2. Current employment as a counselor or a minimum of three years teaching experience.
3. Status as a non-degree seeking graduate student.

**Required Program:** (27)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGC 5405</td>
<td>Introduction to Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EGC 5305</td>
<td>Educational-Vocational Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6708</td>
<td>Advanced Counseling and Consultation: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6605</td>
<td>Professional Problems in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6203</td>
<td>Measurement and Appraisal in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6707</td>
<td>Applied Behavioral Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6936</td>
<td>Seminar in Pupil Personnel Services</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6215</td>
<td>Application of Learning Theory of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EGC 6822</td>
<td>Advanced Practica in Counseling and Consultation</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: At the discretion of the program coordinator, a minimum of six semester hours of transfer credit may be used to satisfy these requirements.

1This is the terminal course in the program. All other courses are required as prerequisites. Enrollment is by permission of instructor only.

### Elementary Education*

Alicia Mendoza, Associate Professor, Early Childhood/Elementary Education and Chairperson

John Bath, Assistant Professor, Science, Mathematics, and Elementary Education

Toni Bilbao, Associate Dean, Elementary Education

Victoria J. Dimidjian, Professor, Early Childhood Education

Sharon W. Kossack, Professor, Reading Education

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### 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6106</td>
<td>Diagnostic Teaching: Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6227</td>
<td>Diagnostic Teaching: Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6211</td>
<td>Assessment of Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>ELD 6323</td>
<td>Advanced Theory and Practice: Specific Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELD 4240C</td>
<td>Educational Planning for Specific Learning Disabilities</td>
<td>3</td>
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</table>

#### Emotional Disturbance

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6106</td>
<td>Diagnostic Teaching: Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6227</td>
<td>Diagnostic Teaching: Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Classroom Learning</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4611</td>
<td>Behavioral Approaches to Classroom Learning II</td>
<td>3</td>
</tr>
<tr>
<td>EED 4227</td>
<td>Educational Planning for Emotional Handicaps</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Mental Retardation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6051</td>
<td>Exceptional Children and Youth</td>
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</tr>
<tr>
<td>EEX 6106</td>
<td>Diagnostic Teaching: Acquisition of Language and Reading Skills</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6227</td>
<td>Diagnostic Teaching: Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EMR 4251</td>
<td>Educational Planning for the Mentally Retarded</td>
<td>3</td>
</tr>
<tr>
<td>EMR 6852</td>
<td>Advanced Theory and Practice for the Mentally Retarded</td>
<td>3</td>
</tr>
<tr>
<td>EEX 5771</td>
<td>Independent Living for the Handicapped</td>
<td>3</td>
</tr>
</tbody>
</table>
Specialization Courses
Courses to be selected from among Early Childhood course listings, in consultation and with approval of advisor 18

Thesis Track
Required Program: (36)
This master's thesis track provides a special foundation for doctoral Degree program entrance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 6205</td>
<td>Curriculum Design for Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EEC 6791</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Specialization Courses to be selected from among course listings in early childhood education in consultation and with approval of advisor 9

Master of Science in Elementary Education
Applicants for admission to the Master’s program in Elementary Education must hold or qualify for Florida certification or equivalent in elementary education, and must satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 on GRE. Applicants must submit GRE scores. The final decision for admission rests with the Faculty Admissions Committee.

Standard Track
Required Program: (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 6205</td>
<td>Curriculum Design for Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6225</td>
<td>Educational Program for Older Children</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>RED 6155</td>
<td>Instruction in Elementary Reading</td>
<td>3</td>
</tr>
<tr>
<td>Psychology, Sociology, or Anthropology course (consult advisor)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Reading
Applicants for admission to the Master’s program in Reading Education must hold or qualify for Florida certification or equivalent in elementary education, and must satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: GPA of 3.0 or 1000 on GRE. Applicants must submit GRE scores. The final decision for admission rests with the Faculty Admissions Committee.

Thesis Track
Required Program: (36)
This master's thesis track provides a special foundation for doctoral Degree program entrance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 6205</td>
<td>Curriculum Design for Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6225</td>
<td>Educational Program for Older Children</td>
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</tr>
<tr>
<td>EDF 5432</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>RED 6155</td>
<td>Instruction in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialization Courses
Courses to be selected from among Elementary course only and in consultation and with approval of advisor 18
Graduate Catalog

College of Education / 113

RED 6515 Programs of Remediation in Reading 3
RED 6546 Diagnosis of Reading Difficulty 3
Psychology, sociology, anthropology, or linguistic course in or outside of the College of Education 3

Specialization Courses
Courses to be selected from among Reading or Language Arts course listings, in consultation and with approval of advisor 15

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: (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
RED 6155/RED 6305 Instruction in Early Childhood Reading 3
RED 6515 Programs of Remediation in Reading 3
RED 6546 Diagnosis of Reading Difficulty 3
RED 6747 Research in Reading 3
RED 6932 Seminar in Reading Education 3
Psychology, sociology, anthropology, or linguistic course in or outside of the College of Education (consult advisor) 3
RED 6971 Thesis in Reading Education 6

Specialized Course: One course to be selected from among the course listing in reading education 3

Doctor of Education Degree Program
The Department offers Curriculum and Instruction doctoral specialties in Early Childhood Education, Elementary Education, and Reading Education.

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.

Applicants must have a 3.25 GPA, a combined GRE score of 1000 on the verbal and quantitative sections. Final decisions on admission are made by the Faculty Admissions Committee. Additional information can be obtained from the Department in DM 284.

Core Courses: (15 semester hours)
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 semester hours)
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 semester hours)
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
STA 5166 Statistical Methods in Research I 3

One of the following:
EDF 6403 Quantitative Foundations of Educational Research 3
or
EDF 6475 Qualitative Foundations of Educational Research 3

Comprehensive Examinations and Advancement to Candidacy
The student must successfully pass comprehensive 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 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). Six credit hours of dissertation are taken per semester during the time that the dissertation is being completed.

EDG 7980 Doctoral Dissertation 24

Graduate Professional Certificate Program in Reading and Language Arts
The Reading and Language Arts Certificate Program enables teachers to extend their competence in reading and language arts instruction. Completion of the Certificate Program qualifies the teacher to receive Florida State Certification in Reading, grades K-12. Entrance requirements are an introductory reading course, and a 2.75 GPA in the last two years of college work. Students are required to have completed two years of full-time teaching prior to completing the program. Applicants should apply directly to the Chairperson of the Reading Program.

Prerequisite Course
RED 6155 Instruction in Elementary Reading 3
RED 6305 Instruction in Reading 3

Required Program
EDF 5432 Measurement and Evaluation in Education 3
LAE 5415 Children's Literature 3
LAE 6355 Instruction to Elementary Language Arts 3
RED 6546 Diagnosis of Reading Difficulty 3
RED 6515 Programs of Remediation in Reading 3
Advised Electives
Two courses chosen from language-related courses offered outside of the College of Education

Elective courses are chosen from an approved list in consultation with a Reading Program advisor.

Certification in Gifted Education
Individuals who hold Florida teacher certification in any subject or field, may receive certification for teaching the gifted (Grades K-12) by completing the following courses:
- EGI 5051 Nature and Needs of the Gifted 3
- EGI 5232 Educational Procedures and Curriculum for the Gifted 3
- EEX 6732 Guidance and Counseling of Gifted Students 3

Health, Physical Education and Recreation
Ida F. Chadwick, Associate Professor, Physical Education and Chairperson
Judith A. Blucker, Professor, Physical Education, and Vice Provost
Richard Lopez, Associate Professor, Exercise Physiology
George B. Pearson, Professor, Physical Education
Thomas Skalko, Associate Professor, Therapeutic Recreation
Robert M. Wolff, Associate Professor, Parks and Recreation Management

The Department of Health, Physical Education, and Recreation offers programs leading to the Master of Science degree in Exercise Physiology, Health Education, Parks and Recreation Management, Physical Education, and Sports Management.

The program requirements and descriptions listed below are subject to change without advanced notice. Program faculty should be consulted for academic advisement.

Master of Science in Health Education
Exercise Physiology Specialization

The graduate specialization in exercise physiology is designed to prepare individuals to work in the fields of exercise testing in a supervisory capacity and in cardiac rehabilitation as a designer of exercise rehabilitation programs.

The program will focus on the physiological effects of exercise and training with application to the improvement of health and functional capacity of hospitalized and non-hospitalized individuals with heart disease. The program will emphasize the role of exercise in diagnosis, prevention, and rehabilitation of heart disease.

The program will enable students to develop the competencies required by the American College of Sports Medicine for certification as an Exercise Specialist, a Health Fitness Director, and a Program Director. Provisions will be made to enable those students entering the program without an Exercise Test Technologist Certification and a Health/Fitness Instructor Certification to develop those prerequisite competencies.

Admission Requirements
An applicant for admission to graduate study must meet the existing criteria set forth by the Florida Board of Regents. Presently, these are a 3.0 GPA in the third and fourth year of the undergraduate program, or a combined score of 1000 on the GRE (verbal and quantitative sections), or completion of a master's degree program at an accredited university. All applicants must submit a GRE test score.

Prerequisite Classes
One class in each of the following areas: exercise physiology, kinesiology or applied anatomy, physiology, and nutrition.

Required Program: (30)

I. Exercise Physiology/Sports Medicine Requirement
- PEP 5116 Exercise Physiology 3
- PET 5625 Sports Medicine 3
- PET 6786 Health Fitness Director 3
- PET 6787 Exercise Program Director 3

II. Physiology/Biochemistry/Special Topics Requirement
- APB 4240 Human Systemic Physiology 3
- Or
- An approved alternative
- And
- A second approved course in physiology, biochemistry, special topics or nutrition 3

III. Research Requirement
Advisor approved course in research.

IV. Internship Requirement
PET 6940 Internship in Exercise Physiology

V. Electives (0-6)

1Students presently employed in the field in an administrative capacity may be exempted from this requirement.

2Students 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

Area of Professional Emphasis: (18-19)
- LEI 5907 Individual Study 3

Advised Electives 15

1A student who did not complete a Parks, Recreation, Leisure or Sports-oriented Internship field experience during his or her undergraduate degree curriculum will be required to take: LEI 6922 Supervised Field Experiences in Parks and Recreation 6-9.

Master of Science in Physical Education

The Master of Science degree program in Physical Education is designed to provide advanced preparation for teachers of physical education. Applicants 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 5238C Perceptual Motor Learning 3
PET 5256C Sociology of Sport 3
PET 5265 Sports Medicine 3
PET 5436 Physical Education Curriculum in Elementary School 3
PET 6597 Survey of Research in Physical Education 3
PET 6932 Seminar in Physical Education 3
PET 4510 Evaluation in Physical Education 3
RED 6336 Reading in the Secondary School 3

Electives 6-12

1Not required of students holding K-8 Certification or students who have completed an equivalent undergraduate course.

2Students who have already met the Reading Requirement as undergraduates or through approved in-service education may substitute an elective for this course. The course is not required of students holding K-8 certification in Physical Education.

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)
EDF 5481 Analysis and Application of Educational Research 3
PET 5216 Sports Psychology 3
PET 5256C Sociology of Sport 3
PET 5625C Sports Medicine 3
PET 6944 Supervised Field Experience 3 3-6
PET 5936 Special Topics: Sport Management 2-4
PET 5416 Sports Administration and Management 3

1An internship in an appropriate sport agency or business will be required.

Advised Electives: (6-13)
With the prior approval of the program advisor, students must elect at least nine credits from a variety of courses to build a specialization degree program based on long-term career goals. With approval from the appropriate department, examples of electives would include, but not limited to, graduate courses from such areas as business, management, public administration, parks and recreation administration, nutrition, psychology, sociology, and physical and occupational therapy.

Middle, Secondary and Vocational Education

Luis A. Martinez-Perez, Associate Professor, Science Education and Chairperson
Ahnilda Badia, Associate Professor, Modern Languages Education
Rosemere Baum, Associate Professor, Home Economics Education, Vocational Education
Curtis H. Bradley, Professor, Organizational Training, Vocational-Industrial Education
David Y. Chang, Assistant Professor, Art Education
Myrna P. Crabtree, Professor, Home Economics Education, Vocational Education
Robert K. Gilbert, Associate Professor, Mathematics Education

A. Dean Hauenstein, Professor, Technology Education, Vocational Education
Edwin C. McClintock, Professor, Mathematics Education
Dominic A. Mohamed, Associate Professor, Vocational Administration and Supervision, Vocational Education
George E. O'Brien, Assistant Professor, Science Education
Clem Pennington, Associate Professor, Art Education
Janice R. Sandilford, Associate Professor, Health Occupations Education, Computer Education, Vocational Education, and Assistant Dean for North Miami/Broward
Robert Shostak, Professor, English Education
Robert F. Testa, Associate Professor, Educational Foundations, Music Education
Jan L. Tucker, Professor, Social Studies Education
Robert Vos, Associate Professor and Associate Dean, Organizational Training, Technical Education, 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 Programs are available in the following fields of study:
Art Education
English Education
Mathematics Education
Modern Languages Education
Music Education
Science Education
Social Studies Education
Vocational Home Economics Education
Vocational Industrial Education
Vocational Administration and Supervision
Business Education Track
Health Occupations Education Track
Technology Education Track
Technical Education Track

Doctoral programs are available in the following field of study:
Curriculum and Instruction
Vocational and Technical Education Leadership
(a track of the Adult Education and HRD program)
Master of Science Degree Programs

Art Education

Required Program: (36)

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 6706 Seminar in Art Education: Contemporary Issues and Research 3

Select one of the following:

EDE 6205 Curriculum Design for Childhood Education or
ESE 6215 Secondary School Teaching Field or
EEX 6051 Exceptional Children and Youth

Five graduate art courses, including one art history:
Art History 3
Studio Art (Three semester hours credit for each studio course) 12
Advisor Approved Electives (2) 6

English Education

Required Program: (30)

EDF 5481 Analysis and Application of Educational Research 3
LAE 6339 Teaching English in the Secondary School 3
ESE 6215 Secondary School Curriculum 3
LAE 6935 Seminar in English Education 3

1Prerequisite: Undergraduate English methods course.
2Permission of Instructor required.

Teaching Field: English 15
Advisor Approved Electives: 3

Mathematics Education

Required Program: (33)

EDF 5481 Analysis and Application of Educational Research 3
MAE 6336 Teaching Mathematics in the Secondary School 3
MAE 6899 Seminar in Mathematics Education 3

1Prerequisite: Undergraduate English methods course.
2Permission of Instructor required.

Teaching Field: Mathematics 12
Electives: In Education or Mathematics, or both 9

Required Program: (30)

The specific graduate requirements are: (30 semester hours)

1. Required Core

All students will be required to complete the following twelve semester hours in the College of Education:

ESE 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 Language 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 Graduande 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)

The specific graduate requirements are: (30 semester hours)

1. Required Core

All students will be required to complete the following twelve semester hours in the College of Education:

ESE 6215 Analysis and Application of Educational Research 3
ESE 6215 Secondary School Curriculum (or equivalent) 3
FLE 6336 Teaching Second Language in the Secondary School 3
FLE 6938 Seminar in Second Language Testing 3
Teaching Field: Modern Languages 15
(Prerequisite: LIN 3010 - 3 semester credits

2. Field Component: (3)

The remaining three semester hours will consist of a supervised field experience in the teaching of one of the modern languages. The field experience may be arranged according to one of the following options:

(a) County Public Schools;
(b) private school;
(c) adult or community college education;
(d) adjunct teaching at the University.

All arrangements for field experience must be approved by the advisor.

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
EDE 6205 Curriculum Design for Childhood Education or
EDF 5481 Analysis and Application of Educational Research 3
MUE 6345 Methodology of Music Teaching 3
MUE 6938 Seminar in Music Education 3
MUE 6815 Psychology of Music Behavior 3
MUT 5325 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
Graduate Catalog

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESE 6215</td>
<td>Secondary School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>SCE 6635</td>
<td>Teaching Science in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>SCE 6933</td>
<td>Seminar in Science Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Teaching Field</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>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</td>
<td>9</td>
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</tbody>
</table>

### Social Studies Education

**Required Program:** (33 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSE 6633</td>
<td>Teaching Social Studies in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>Secondary School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDF 5481</td>
<td>Analysis and Application of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6939</td>
<td>Seminar in Social Studies Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Teaching Field; Social Studies, Social Science, History</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Advisor Approved Electives</td>
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</tr>
</tbody>
</table>

### Master of Science: Alternate Track

The Alternate Track modifies the existing master's degree programs to accommodate candidates with a baccalaureate degree appropriate to the certification area but without certification, who are seeking entry into the teaching profession. This modified track will be no less rigorous than the existing master's degree program, but it will include 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 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3521</td>
<td>Education in History</td>
<td>3</td>
</tr>
<tr>
<td>EDP 6211</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5995</td>
<td>General Teaching, Skills and Lab</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Special Teaching Lab; Area</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>Student Teaching Practicum</td>
<td>6</td>
</tr>
</tbody>
</table>

### 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.

**Note:** This program is currently under review. Program currently under review. Program modifications may be made to conform to Department of Education Certification requirements. Please consult a program advisor.

### Required Program: (33-36)

#### Required Core: (27-30)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5265</td>
<td>Supervision and Coordination of Vocational Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5664</td>
<td>Community Relations and Resources for Vocational Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EVT 6264</td>
<td>Administration of Local Vocational Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EVT 6930</td>
<td>Seminar In Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6061</td>
<td>The Organization and Operation of the Public School System</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>
<td>3</td>
</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>
</tbody>
</table>

### Area of Professional Emphasis

EVT 6946 Supervised Field Experience 3

**Elections**

The candidate may select a course (or courses) that will increase administrative and supervisory competencies

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

### Business Education

**Required Program:** (33)

#### Required Core: (12-15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5769</td>
<td>Evaluation in Vocational and Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 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>
</tr>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
<td>3</td>
</tr>
</tbody>
</table>

### Area of Professional Emphasis:

(12-15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTE 5671</td>
<td>Problems, Issues and Trends in Business Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 5455</td>
<td>Teaching in Business Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 5447</td>
<td>Teaching Basic Business and Consumer Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 6432</td>
<td>Teaching Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>BTE 6905</td>
<td>Directed Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>BTE 6940</td>
<td>Supervised Clinical Field Experience</td>
<td>3</td>
</tr>
</tbody>
</table>
may substitute an elective for this course. The candidate will be encouraged to make selections on the basis of individual needs and career goals. 3-6

Health Occupations Education

Required Program: (30)

Required Core: (12-15)

EVT 5168 Curriculum Development in Vocational Education 3
EVT 5769 Evaluation in Vocational Education 3
EVT 6760 Research in Vocational Education 3
EVT 6930 Seminar in Vocational Education 3
RED 6336 Reading in the Content Area 3

Area of Professional Emphasis

With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies needed. 9

Electives

The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals. 3

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Area of Professional Emphasis: (9)

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education 3
EVT 5317 Occupational Analysis in Health Occupations and Nursing Education 3
EVT 6318 Issues in Health Occupations and Nursing Education 3

Technical Electives: (6)
The candidate will be encouraged to select courses that will increase subject area technical competence, career goals, and teaching certification requirements.

Home Economics Education

This track focuses on educational leadership of Home Economists presently employed in non-school educational environments and those preparing for such positions.

Required Program: (30)

Required Core: (18)

HEE 6335 Trends in Vocational Home Economics Education 3
HEE 6156 Teaching Home Economics In Diverse Environments 3
ADE 5180 Organizational and Community Processes in AE/HRD 3
EDF 5481 Analysis and Application of Educational Research 3

HEE 6915 Research in Home Economics Education 3
HEE 6937 Seminar in Home Economics Education 3

Area of Professional Emphasis

With program advisor's approval, students may select courses in Home Economics subject matter based on professional competencies needed. 9

Electives

The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals. 3

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Technical Education

Required Program: (30)

Required Core: (15-18)

EVT 5650 Trends and Issues in Vocational Education 3
EVT 5168 Curriculum Development in Vocational Education 3
EVT 5769 Evaluation in Vocational and Technical Education 3
EVT 6760 Research in Vocational Education 3
EVT 6930 Seminar in Vocational Education 3
RED 6336 Reading in the Content Area 3

Area of Professional Emphasis: (9-12)

EIA 5811 Equipment and Facilities Planning 3
EIA 6931 Instructional Projects Development 3

The student, under the direction of the program advisor, may develop professional competencies in an area of emphasis through seminars, methods courses, workshops, or independent study. 3

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Technical Electives

The student is encouraged to select courses that will increase subject area technical competence. 3-6

Vocational Home Economics Education

Required Program: (30)

Required Core: (15-18)

HEE 5335 Trends in Vocational Home Economics Education 3
EVT 5168 Curriculum Development in Vocational Education 3
HEE 6156 Teaching Home Economics in Diverse Educational Environments 3
HEE 6915 Research in Home Economics Education 3
HEE 6937 Seminar in Home Economics Education 3
RED 6336  Reading in the Content Area  3

Area of Professional Emphasis
With program advisor's approval, a student may select courses in subject matter of Home Economics chosen from offerings outside of the College of Education, based on professional competencies needed.  9

Electives
The candidate will be encouraged to make selections on the basis of individual needs and career goals.  3-6

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Vocational Industrial Education
Required Program: (30)

Required Core: (18-21)
EVT 5650  Trends and Issues in Vocational Education  3
EVT 5168  Curriculum Development in Vocational Education  3
EVT 5695  International Comparative Vocational Education  3
EVT 5769  Evaluation in Vocational and Technical Education  3
EVT 6760  Research in Vocational Education  3
EVT 6930  Seminar in Vocational Education  3
RED 6336  Reading in the Content Area  3

Area of Professional Emphasis
A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences, seminars, methods courses, workshops, or independent study  3-9

Technical Electives
The candidate will be encouraged to select courses that increase subject area technical competency  3-6

1 Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Doctoral Programs
Curriculum and Instruction

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.
Applicants to the program must have a 3.25 GPA, a combined GRE score of 1030 on the verbal and quantitative sections. Final decisions on admission are made by the Faculty Admissions Committee. 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
EDG 7934  Seminar in Social Foundations of Education  3
EDG 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: (19)
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)
Comprehensive Examinations and Advancement to Candidacy
The student must successfully pass comprehensive 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 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). Six credit hours of dissertation are taken per semester during the time that the dissertation is being completed.

EDG 7980  Doctoral Dissertation  24

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
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 files 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 last two years of 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 the general aptitude portion 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
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 90 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 (90)
Adult Education and HRD Core 12
Generic Core 30-36
Vocational and Technical Education Leadership 15-21
Research and Statistics 12
Prospectus and Dissertation 24
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 Program in Business Education
The professional Graduate Certificate Program for Business Education requires a minimum of 18 semester hours of course work above the bachelor’s degree. This program is designed for those who have already earned a bachelor’s degree with a major in Business Education. Consequently, the student will have already met the State Department of Education certificate requirements.

A candidate is urged to consult the Business Education advisor to plan a program of study prior to starting a program.

Required Courses: (18)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 6336</td>
<td>Reading in the Content Area</td>
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</tr>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5769</td>
<td>Evaluation in Vocational-Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 5671</td>
<td>Problems, Issues and Trends in Business Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 5455</td>
<td>Teaching in Business Education</td>
<td>3</td>
</tr>
<tr>
<td>BTE 5447</td>
<td>Teaching Basic Business and Consumer Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Advised Electives 3-6

1. Students who have met the reading requirements as an undergraduate through approved in-service education may substitute an elective for this course.

Graduate Professional Certificate - Health Occupation 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 5078</td>
<td>Technical Education in American Society</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5650</td>
<td>Trends and Issues in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5168</td>
<td>Curriculum Development in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5769</td>
<td>Evaluation in Vocational and Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5315</td>
<td>Improvement of Teaching Strategies in Health Occupations and Nursing Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 5317</td>
<td>Occupational Analysis in Health Occupations and Nursing Education and/or ADE 5385 Adult Teaching and Learning 3</td>
<td></td>
</tr>
</tbody>
</table>

Advised Electives
A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education, Health Service Administration or Health Speciality

Urban, Multicultural and Community Education
Robert V. Farrell, Associate Professor and Chairperson, Educational Foundations
John A. Carpenter, Professor, Educational Foundations and International Development Education
Joseph B. Cook, Professor, Community College Teaching
Chris Uber Grosse, Assistant Professor, TESOL
E. Joseph Kaplan, Assistant Professor, Educational Foundations
Colleen A. Ryan, Associate Professor, Special Education for the Emotionally Handicapped
The Department of Urban, Multicultural and Community Education is fully committed to two guiding missions of the College of Education: to support the preparation of superior teachers and other human resource professionals, and to work for change where change is needed in society and its institutions. The Department oversees graduate programs for students who are interested in working in the fields of:

- Community College Teaching (Doctoral)
- Teaching English to Speakers of Other Languages (TESOL)
- Urban Education

The Department also coordinates the Foundation of Education courses and the Professional Education Core. It is the administrative location of the Dade County Public School/FLU Urban Education Program, which is comprised of the Urban Education Certificate Program and the Master's Degree in Urban Education.

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 in senior years course work for the bachelor's degree; or have a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or hold a master's degree from an accredited university or college; in any case the student must present a GRE score; c) achieve a score of 220 on the Test of Spoken English; d) in the case of foreign 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 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. 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 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 or LIN 3013.

Required Program: (30)

Professional Education: (12)

All students will be required to complete 12 semester hours in the College of Education:

- EDF 5481 Analysis and Application of Educational Research
- TSL 5142 Curriculum Development in ESL or TESOL
- ESE 6215 Secondary School Curriculum
- TSL 5371 Special Methods of TESOL
- FLE 6938 Seminar in Language Testing

Program Courses: (15)

In consultation with the advisor, students will choose 15 semester hours from among five groups of courses from the Departments of English, Modern Languages, and the College of Education. The student must take one course from each category:

a. LIN 4680 Modern English Grammar
b. LIN 5206 Phonetics
   SPN 5790 Contrastive Phonology
c. LIN 5342 Advanced Syntax
   LIN 5805 Semantics
   LIN 5431 General Morphology and Syntax
   LIN 5748 Applied Linguistics: Theory & Applications
   LIN 5625 Studies in Bilingualism
   LIN 5602 Language Contact
   LIN 5601 Introduction to Sociolinguistics
   EDG 5707 Cross-Cultural Studies
   FLE 5908 Individual Studies
   LIN 5715 Language Acquisition
   LIN 5701 Psychology of Language
   LIN 5107 History of the English Language
   LIN 5732 Speech Errors and Linguistic Knowledge

2. ESOL in adult or community college education, or both;
3. ESOL in private schools or private enterprise;
4. the English Language Institute at the University.

All arrangements must be approved by the advisor.

Graduation Requirements

To receive the Master of Science degree in Curriculum and Instruction, with a sub-specialty in Second Language Education, TESOL track, the student must complete the required 30 semester hours of coursework with a 'B' or 3.0 average or higher and no more than two 'C' grades in required courses.

Master of Science in Urban Education

To be eligible to enroll in the Master's in Urban Education program, students must meet all the University's and the College of Education's admission requirements.

Required Courses

- EDF 5941 Practicum I in Urban Schools Education 5
- EDF 5942 Practicum II in Urban Schools Education 5
- EDF 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

Doctor of Education in Community College Teaching

The doctoral program in Community College Teaching is designed to provide the opportunity for specially selected students to enhance instructional and research skills related to the continuing development and operation of the community college. 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 at 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. 7

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.

Add-on Certification and Certificate Programs

Add-on Certification in ESOL
Individuals who currently hold or are working toward a teaching certificate in any area of education may receive add-on certification in ESOL by completing a set of courses in ESOL, and demonstrating language proficiency in English. For admissions and graduation requirements, please refer to the Degree program.

Required Program
FLE 6938 Seminar in Second Language Testing 3
EDG 5107 Cultural and Cross-Cultural Studies 3
LIN 5625 Bilingual Language Development 3
TSL 5371 Special Methods of TESOL 3
TSL 5142 Curriculum Development in ESOL 3

Prerequisite: LIN 3010

The language proficiency instrument, the Test of Spoken English (TSE) will be administered at the University on a regularly scheduled basis. Please consult the Director of the Teacher Training Program in Bilingual Education for further information.

These courses can also be taken by interested individuals for the purpose of add-on certification only. Requirements for admissions are a valid Florida Teacher’s Certificate and a score of 220 on the Test of Spoken English.

Students are also encouraged to take, in addition to their regular program, EGC 6469, Counseling the Culturally Different, and EDF 6444, Non-Biased Assessment of the Culturally Different.

Graduate Urban Education Certificate Program
This 15 semester-hour certificate program is designed to meet the needs of teachers working in urban schools.

Dade County Public School teachers currently teaching in Chapter I schools are eligible to apply for tuition reimbursement and stipends. A limited number of teachers are selected by Dade County Public Schools to participate in the program. Applications are available from, and should be submitted to, the Bureau of Education, Dade County Public Schools. Details concerning tuition reimbursement and stipends are available from the United Teachers of Dade or the Bureau of Staff Development, Dade County Public Schools.

Topics which are included in the courses are the Urban Community, Affective Education Strategies, Assessment of Student Performance, Classroom Management, Language Development, Learning Styles, Motivational Techniques, Multi-Cultural Perspectives, Parent Community Involvement, and teaching the basic skills of mathematics and reading.

Admission
To be admitted to the program students must have a bachelor’s degree from an accredited college or university; have a valid Florida Teaching Certificate; and be currently employed as a teacher in selected Dade County Chapter I Schools.

Required Courses: (33)
EDF 5941 Practicum I in Urban Schools Education 5
EDF 5942 Practicum II in Urban Schools Education 5
EDF 5943 Practicum III in Urban Schools Education 5

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; EGG - Education: General; EDH - Education: Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEM - Education: Early Childhood; EED - Education: Emotional Disorders; EEX - Education: Exceptional Child, Core Competencies; EGC - Education: Guidance and Counseling; EGI - Education: Exceptional Child, Gifted; EIA - Education: Industrial Arts; ELD - Education: Specific Learning Disabilities; EME - Education: Technology and Media; EMR - Education: Mental Retardation; ESE - Education: Special Education; ETE - Engineering Technology; Electrical; ETM - Engineering Technology: Mechanical; ETV - Education:
ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, programs, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs.

ADE 5180 Organizational and Community Process in AE/HRD (3). Analyzing human resource and community development programs, the processes and implemental strategies; needs assessment objectives, curricula, recruitment, implementation, and evaluation.

ADE 5195 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 5260 Organization and Administration of Adult Education and Human Resource Development 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 5383 Instructional Processes in AE/HRD (3). Analyzing models for instructional design; identifying and evaluating variables related to such models; developing designs unique for adult learners and organizational needs.

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 5906 Individual 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 5925 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 5935 Special Topics in Adult Education and Human Resource Development (1). "Mini-courses" which provide for an examination of special facets of adult education and human resource development.

ADE 5945 Supervised Field Experience in Adult Education and Human Resource Development (1-6). Internship in various programs according to needs and interests. Supervisory visits by advisor. Joint conferences and seminars involving the student, the program advisor, and an appropriate representative of the cooperating agency are conducted intermittently.

ADE 6674 Organizational Training and HRD Trends and Issues (3). Presentation & analysis of state-of-art trends impacting development of human resources in specific organizations including educational agencies/business & industry/public sector and commerce. Prerequisites: ADE 5031 or equivalent.

ADE 6772 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 5180.

ADE 6920 Adult Education/HRD Colloquium (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 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 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 5180/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 internalization of processes outcomes. Prerequisites: ADE 5180, ADE 5383.


ADE 9964 Comprehensive Doctoral Examination, Adult Education/HRD (0). Comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite: Permission of Major Professor.

ADE 9985 Dissertation Defense, Adult Education/HRD (0). Defense of Dissertation. Prerequisites: Permission of Major Professor and ADE 7980.

ARE 5251 Art for the Exceptional Child (3). Development of instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation 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 5805 Directed Study in Art Education (1-3). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor.

ARE 5945 Practicum: Art Education (8). 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). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

ARE 6315 Instruction In Elementary Art (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

ARE 6706 Seminar In Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delimitation 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 6706 and EDF 6486.

BTE 5447 Teaching Basic Business and Consumer Education (3). Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate basic business and consumer education programs. Prerequisite: Graduate Standing.

BTE 5455 Teaching In Business Education Occupational Programs (3). Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate office education programs to include office simulation and cooperative business education.

BTE 5671 Problems, Issues and Trends In Business Education (3).

Competency: Historical information, issues, current trends, new dimensions and problems in business education. Prerequisite: Graduate standing.

BTE 6432 Teaching Word Processing (3). Competency: Knowledge, techniques, methods of teaching, concepts and applications of word processing essential for instruction.

BTE 6906 Directed Independent Study (1-3). Competency: The ability to identify, research, and report on a special problem in business education. Subject to approval of the program advisor.

BTE 6925 Workshop in Business Education (1-3). Competency: Selected competencies related to instructional and technical areas of business education.

BTE 6940 Supervised Clinical Field Experience (1-3). Competency: Updating and upgrading of occupational skills developed via field-based work experience in the business and office occupations. Placement is made subject to approval of program advisor.

CHD 5264 Advanced Studies In Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent.

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application. Prerequisite: Computers in Classroom or equivalent.

CGS 5413 PILOT for Educators (3). Authoring language PILOT for teachers. Designed to develop language and its application to all levels of education. Prerequisite: EME 6405 or equivalent.

EDA 6061 Introduction to Educational Administration and Supervision (1-3). For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: The student must be in a master's degree program in educational leadership at this university and receive the permission of the program leader and instructor.

EDA 6063 Administration of Independent Schools (3). A survey course to examine administration of private schools. Will include sectarian and non-sectarian schools, historical overview, values, funding, administration.

EDA 6192 Leadership In Education (3). Review, analysis and application of concepts and theories of leadership with emphasis on organizational 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). Examining relations between a district school board and its employees as professional organizations, unions, and employer-employee relationships.

EDA 6232 School Law (3). A basic course in school law. Students will understand the law library and its relationship to the school; 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 state and federal legislation on those plans; special focus on the Florida Education Finance Plan; and the budget responsibilities of the school principal at the school center.

EDA 6271 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 Individual Study In Educational Administration and Supervision (1-3). For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: The student must be in a master's degree program in educational leadership at this university and receive the permission of the program leader and instructor.

EDA 6928 Workshop: School Improvement (1-5). 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 com-
potencies in the eight domains of effective educational leadership. Focus is on case studies and research related to basic and high performing competencies of school managers.

EDA 6943 Supervised Field Experience (1-5). Supervised field experience appropriate to the student’s interests and professional goals.

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formation and implementation.

EDA 7103 Theories of Educational Administration (3). Examination of theoretical constructs and models related to the organization and administration of educational institutions. Prerequisites: Admission to doctoral program and completion of at least 12 semester hours of EDA coursework.

EDA 7233 School Law II (3). Examines the area of school law in depth and includes special topics in 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 of 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 Independent Study (1-6). An opportunity for advanced graduate students to engage in independent study under the direction of a faculty member. Prerequisite: Admission to doctoral program, and permission of program leader.

EDA 7930 Seminar in Educational Administration and Supervision (3). Consideration of current critical problems and issues in the organization and administration of educational institutions and the role of official leadership in relation to them. Prerequisites: EDA 7103 and 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, usually as a member of an official work group related to an educational organization. Prerequisites: Admission to doctoral program, and permission of program leader.

EDA 7979 Dissertation Research Seminar (3). Designed to provide advanced doctoral students with knowledge and understanding of the process of dissertation research and writing and of the dissertation defense. Prerequisite: Advanced doctoral standing.

EDA 7980 Dissertation (3-12). Research for doctoral dissertation. Prerequisite: Advancement to candidacy in doctoral program.

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 3773, EDC 3321, EDC 3322.

EDE 5905 Individual Study in Elementary Education (1-3). Individual investigation in the area of instruction in elementary education. Permission of instructor required.

EDE 5925 Workshop In Elementary Education (3). An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in elementary education.


EDE 6225 Education Programs for Older Children (3). Program developed for older children; curriculum trends based on contemporary psychological, educational and sociological research.

EDE 6494 Research in Elementary Education (3). Expose students to research in elementary education and the paradigms associated with this research. Teach students to be critical readers of this research. Prepare students for thesis. Prerequisite: EDF 5481.

EDA 6930 Seminar in Elementary Education (3). Advanced study of critical issues and problems in elementary education.

EDE 6948 Supervised Field Experience in Elementary Education (3-9). Field work in education institutions and organizations in elementary education.

EDE 6971 Thesis in Elementary Education (6). Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDE 6488, and consent of instructor. Corequisites: EDE 6930.

EDE 7935 Doctoral Seminar In Elementary Education (3). Advanced doctoral study of current theories and research related to elementary education. Prerequisite: EDF 6486.

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.

EDE 5287 Instructional Technology: Systems Approach (3). Development of instructional competencies, with an emphasis on the use of a systems approach in the design, implementation, and evaluation of programs.

EDE 5432 Measurement and Evaluation In Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481.

EDE 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. Special focus on differing interpretations of school and society relationships.

EDE 5812 National Educational Systems: A Comparative Analysis (3). Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of educational systems to common educational issues.

EDE 5820 Latin American Education: An Historical and Contemporary Overview (3). Historical and current development of Latin American education, and analysis of the principal forces shaping this development.

EDF 5850 International Development Education: Historical and Contemporary Reality (3). Designed to explore the relationship between education and the modernization/development process. Special emphasis on historical/contemporary educational planning models.

EDF 5851 Socio/Cultural Conflict In Educational Change (3). This course explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. Prerequisite: EDF 5850.

EDF 5852 Educational Development Issues in Context: A Multidisciplinary Perspective (3). A critical analysis of educational reforms of the past and the present, drawing on social science research and policy issues in the Third World. Prerequisite: EDF 5850.

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education, consideration of the role of education in fostering intercultural understanding both nationally and internationally.

EDF 5891 Foundations of Bilingual Education (3). Focus on an understanding of the bases and rationale for bilingual education, including linguistic, psycholinguistic and sociolinguistic; historical/legal perspectives. Issues in elementary, secondary, adult, vocational, and special education will also be addressed.

EDF 5905 Independent Study (1-3). The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairman of the Division and the approval of the instructor.

EDF 5941 Practicum I In Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5942 Practicum II In Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5943 Practicum III In Urban Education (5). Demonstration of competencies needed by teachers in urban schools. Prerequisite: Current Florida Teaching Certificate.

EDF 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

EDF 6211 Psychological Foundations of Education (3). An advanced survey course designed to acquaint students with major theories and basic principles of learning, instruction, human development, personality and motivation.

EDF 6215 Application of Learning Theory to Instruction (3). Competencies required for analysis of selected learning theories and application of these theories to an instructional system.

EDF 6403C Quantitative Foundations of Educational Research (3). Integrative coverage of fundamentals in the general field of educational research with emphasis on utilizing computer for data analysis. Prerequisites: EDF 5481 and EDF 6486, and STA 5163 or STA 6113.

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. Prerequisite: EDF 5481.

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 6655 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 Independent 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 Workshop 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 6926 Research Problems In Educational Psychology (3). Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis.

EDF 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 framework 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.

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 5414C 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, intercultural communication. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed.

EDG 5757 Curriculum Development for Bilingual Programs (3). Presents curriculum designs and plans for bilingual schooling. Examines materials available for bilingual classes, with emphasis on adaptations and original creations to meet local needs. 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 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 Workshop In General Professional Education (1-3). Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education.

EDG 6943 Supervised Field Experience (1-5). Students are provided an opportunity to perform supervisory duties appropriate to the students professional goals. Only advanced graduate students are permitted to enroll.

EDG 7222 Theory and Research (3). Theories of curriculum organization and a survey of curriculum research and historical patterns of curriculum development. Prerequisite: EDG 6250.

EDG 7362 Theory and Research (3). Theories of Instruction and research in the learning process, creativity, the thought process, human relations and group dynamic and other fields related to the development of instructional theory and practice. Prerequisites: EDG 6250 Psychology of Learning or equivalent.

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 (3-20). Original contribution to knowledge in major field. Prerequisite: doctoral candidate.

EDH 6905 Directed Independent Study (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 Workshop In Higher Education/Community College (1-6). Intensive development of selected competencies related to instructional curricular, staff development and/or administrative skills of special interest to students in higher education and community college. Prerequisite: Permission of instructor.

EDH 6935 Special Topics In Higher Education/Community College (1-6). This course provides for the examination of special aspects of higher education of interest to students in higher education and community college teaching. Prerequisite: Permission of instructor.

EDH 7065 Higher Education: Philosophical/Historical Perspectives (3). This course examines basic philosophical positions in higher education; and the history of American higher education. A contemporary philosophical position is then developed.

EDH 7204 Higher Education: Community College (3). This course examines the structure of the community college including: curriculum; administration and legal aspects; the community college concept; technical and career programs and current issues and problems.

EDH 7225 Higher Education: Developmental Programs (3). This course examines the spectrum of developmental programs in higher education. Special attention is given to program structure, academic support systems and curricula designed to increase student achievement.

EDH 7307 Higher Education: Instructional Methods (4). This course will develop 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 Dissertation In Community College Teaching (1-10). 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). Competencies required of effective school personnel. Focus is on skills needed for exercising leadership in school personnel selection, evaluation, and development.
**EEC 5906 Individual Study in Early Childhood Education (1-3).** Individual investigation in the area of preschool and early childhood education. Permission of instructor required.

**EEC 5926 Workshop in Early Childhood Education (3).** An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in preschool and early childhood education.

**EEC 6281 Education Programs for Younger Children (3).** Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research.

**EEC 6612 Screening and Assessing for Assignment of Preventative, Developmental, and Enrichment Strategies for Primary Children (3).** Designed to assist the primary teacher and primary specialist to understand the processes of and methods for screening, assessing, and assignment of preventative, developmental, and enrichment strategies for primary children.

**EEC 6678 Research in Early Childhood Education (3).** Expose students to research in early childhood education and the paradigms associated with this research. Teach students to be critical readers of this research. Prepare students for thesis. Prerequisite: EDF 5481.

**EEC 6932 Seminar in Early Childhood Education (3).** Advanced study of critical issues and problems in preschool and early childhood education.

**EEC 6948 Supervised Experience in Early Childhood Education (3-9).** Field work in educational institutions and organizations in preschool and early childhood education.


**EEC 7932 Doctoral Seminar in Early Childhood Education (3).** Advanced study of current theories and research related to early childhood education. Topics will vary and may include: social, cognitive, affective and language development. Prerequisite: EDF 6486.

**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.

**EEX 5250 Reading for Exceptional Students (3).** Instructional and curricular adaptations and modifications of developmental reading programs for students for varying exceptionalities. Prerequisite: RED 4150 or equivalent.

**EEX 5771/HME 5255 Independent Living for the Handicapped (3).** Explores the special home and personal living skills required in persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psychoeducational services, health, physical education and recreation, social work, home economics, or anyone planning to work with the elderly or handicapped. Approved for certification for teachers of the mentally retarded.

**EEX 6051 Exceptional Children and Youth (3).** Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experience and graduate project required.

**EEX 6060 Curriculum Planning and Development in Special Education (3).** This course stresses special education curriculum content and methodology, and emphasizes the learning characteristics of exceptional children and youth. Curriculum planning and development as a generic process will also be reviewed. Prerequisite: EEX 4241.

**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 Psychological/Sociological Aspects of Exceptionality (3).** Advanced psychological and social aspects of handicapping conditions in relationship to classroom behavior and community functioning.

**EEX 6208 Medical Aspects of Disability (3).** Medical etiology and remediation of disability. Includes genetic, biochemical, nutritional, and physical agents in retardation, learning handicaps, and emotional illness. Prerequisite: EEX 3202 or equivalent.

**EEX 6211 Assessment of Behavior I (3).** Basic concepts in assessment theory. Competencies in using a variety of standardized tests in assessing and writing educational prescriptions for children with disorder in visual, auditory and haptic processing, in language, or integrative systems.

**EEX 6227 Diagnostic Teaching: Educational Assessment (3).** Skill in application of assessment theory to classroom diagnosis and to the development of instructional objectives.

**EEX 6301 Research in Cognitive Process (3).** Review of research and theory pertaining to cognitive development of exceptional individuals. Applications of theory and research include cognitive strategy training and enhancement of attention and memory. Prerequisite: EEX 6165 or DEP 6645.

**EEX 6417 Guidance and Counseling of Gifted Students (3).** Affective development, parental involvement, counseling theories, underachieving gifted.

**EEX 6535 Seminar in Special Education School Administration (3).** Problems in school administration and patterns of curriculum organization as they relate to the handicapped. Focus on conceptual frameworks, change factors, and future trends in special education. Prerequisite: EEX 6051 or equivalent.

**EEX 6846 Diagnostic Teaching: Advanced Practicum (3).** Application of diagnostic teaching models to individualized, remedial, and compensatory instructional programs.

**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 Individual Study in Special Education (1-6).** Concepts or competencies contracted for by graduate students with an instructor.

**EEX 6927 Workshop 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).** A. Topics in Mental Retardation. B. Topics in Specific Learning Disabilities. C. Topics in Behavior Disorders.

**EEX 7980 Doctoral Dissertation (3-20).** Original contribution to knowledge
in major field. Prerequisite: Doctoral candidate.

EGC 5305 Educational-Vocational Counseling (3). Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development.

EGC 5405 Introduction to Counseling (3). Major theoretical concepts in counseling, competencies in relationship building, interviewing, role-playing, simulation, and micro-counseling.

EGC 5425 Crisis Counseling and Intervention (3). Prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss.

EGC 6203 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.

EGC 6469 Counselling the Culturally Different (3). Concepts and skills involved in counseling clients with backgrounds different from the majority culture.

EGC 6510 Theories in Group Dynamics (3). Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: EGC 6725, EGC 6729, EGC 6709.

EGC 6540 Group Counseling (3). Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisites: EGC 5405, EGC 6725, EGC 6726.

EGC 6550 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: EGC 6725, EGC 6726.

EGC 6569 Organization Development In Education (3). Analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: EGC 6725, EGC 6726, EGC 6709.

EGC 6605 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.

EGC 6616 Program Evaluation In the Helping Professions (3). Evaluation skills in the student's area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

EGC 6676 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.

EGC 6678 Supervised Field Experience In School Psychology (10). Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings.

EGC 6705C Principles of Design in Group Intervention: Role of the Consultant (3). Focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on Diagnostic and behavioral skills that help groups become more effective. Prerequisites: EGC 6725, EGC 6726, EGC 6510, EGC 6509.

EGC 6707 Applied Behavioral Analysis in Counseling and Education (3). Concepts and skills in using behavior modification: functional analysis of behavior, precision teaching, token economies, contingency contracting, parent and/or teacher consultation.

EGC 6708 Advanced Counseling and Consultation: Theory and Practice (3). Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisites: EGC 5405 and EGC 6707 or equivalent.

EGC 6709 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: EGC 6726.

EGC 6725 Human Interaction I: Group Process and Social Behavior (3). Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

EGC 6726 Human Interaction II: Analysis of Group Participation (3). Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority, and membership. Prerequisite: EGC 6725.

EGC 6822 Advanced Practicum In Counseling (3). Advanced competencies in counseling and consultation. Prerequisite: Admission to the Certificate or Degree program.

EGC 6905 Individual Study In Counseling and School Psychology (1-6). Competencies contract for between a student and an instructor in accordance with the student's individual needs.

EGC 6936 Seminars In Counseling and Education (3, repeatable to 9). Special topics in relation to counseling or school psychology.

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.

EIA 5811 Equipment and Facilities Planning (3). Competency: Utilization of research, design, and engineering knowledge and skills to plan laboratory facilities and equipment.

EIA 5905 Individual Study (1-3). Competency: The ability to identify, research, and report an industrial arts problem of interest to the student. Subject to approval of program advisor.

EIA 5925L Workshop In Technology Education (3). Competency: Selected competencies related to instructional and technical areas.

EIA 6683 Instructional Projects Development (3). Competency: Knowledge and skill in developing innovative instructional projects for use in industrial arts programs, grade 7-12. (Includes projects for handicapped and disadvantaged.)

EIA 6931 Analysis of Technology Education (3). Competency: Knowledge of
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 4240 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 Workshop 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 or one computer language or permission of instructor.

**EME 6628 Administrative and Instructional Applications of Technology (3).** Topics of this course include data management, instructional management, teleconferencing, scheduling, and productivity software for educational leaders and school managers.

**EME 6905 Independent 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 6832 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 6215 Secondary School Curriculum (3).** Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

**ESE 6425 Research in Secondary Education (1-3)(ARR).** Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency. (Determination of equivalent competency will be made by the instructor.)

**ESE 6925 Workshop in Secondary Education (1-3)(ARR).** Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

**ESE 6935 Seminar in Secondary Education (1-3)(ARR).** Analysis of selected problems in secondary education.

**ESE 6947 Supervised Field Experience (3-9)(ARR).** Field work in an educational institution or organization. Prerequisite: Consent of Chairperson of the Division.

**EVT 5078 Technical Education in American Society (3).** Competency: Knowledge of the basic role and current status of technical education in an industrial democracy.

**EVT 5156 Teaching Career Related Activities (3).** Competency: Integration and articulation of career concepts and activities with regular curriculum.

**EVT 5169 Curriculum Development in Vocational Education (3).** Competency: Basic knowledge and skill in analyzing, planning, organizing, and developing curriculum in an area of specialization.

**EVT 5255 Cooperative Vocational Education Programs (3).** Competency: 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).** Competency: 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).** Competency: Knowledge and skills in methods of teaching and clinical performance evaluation appropriate to the health field and development of teaching. Prerequisite: Permission of instructor.

**EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3).** Competency: Analysis of current trends in area of health specialty and their application to teaching learning situations in health occupations education. Prerequisites: Currently teaching, permission of instructor and professional liability insurance.

**EVT 5369 Vocational Educational Media (3).** Competency: Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts.

**EVT 5505 Vocational Laboratory Activities for Teachers of the Handicapped (3).** Competency: The use of projects, tools, materials and equipment to facilitate training the occupationally handicapped, physically handicapped, and mentally retarded. Approved for certification for teachers of the mentally retarded.

**EVT 5550 Trends and Issues in Vocational Education (3).** Competency: A knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels.

**EVT 5664 Community Relations and Resources for Vocational Education (3).** Competency: Knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education programs.

**EVT 5695 International Comparative Vocational Education (3).** Competency: Skill and knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries.

**EVT 5769 Evaluation in Vocational and Technical Education (3).** Competency: Knowledge and skills in the use of tests and measurements, to evaluate
teaching and learning effectiveness and the validity of objectives.

EVT 5905 Individual Study (1-3). Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program advisor.

EVT 5925 Graduate Workshop in Vocational Education (1-6). Competency: Selected competencies related to professional and program areas.

EVT 6318 Issues in Health Occupations and Nursing Education (3). Competency: Identification and examination of current issues in Health Occupations and Nursing Education. Prerequisite: Graduate standing.

EVT 6350 Vocational Education in a Multicultural Setting (3). Competency: Knowledge and skill in developing and modifying vocational education programs, materials, and practices for a multicultural setting. Prerequisite: Graduate standing.

EVT 6370 Research in Vocational Education (3). Competency: Knowledge and research in developing, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education. Prerequisite: Graduate standing.

EVT 6380 Program Evaluation in Vocational Technical Education (3). Competency: Knowledge and skills needed to conduct a systematic evaluation of vocational-technical education programs. Prerequisites: Graduate standing and EDF 5432 or equivalent.

EVT 6925 Graduate Workshop in Vocational Education (1-6). Competency: Selected competencies related to professional and program areas.

EVT 6930 Seminar in Vocational Education (3). Competency: The application of knowledge and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education. Prerequisite: Graduate standing.

EVT 6946 Supervised Field Experience (3-6). Competency: 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. Prerequisite: Graduate standing.

EVT 6947 Internship in Vocational Education (3). Competency: Knowledge and skill in a new leadership setting, relative to the student's selected area of emphasis. Prerequisite: Graduate standing.

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socio-economic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit.

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension - an exploration of attitudes and values related to sexuality.

FLE 5895 Bilingual Education Teaching Methodologies (3). Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students. Issues in elementary, secondary, adult, vocational, and special education will also be addressed.

FLE 6908 Individual Study (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

FLE 6945 Practicum: Modern Languages (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

FLE 6336 Methods of Teaching Modern Language (3). A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisite: LIN 3010 or ENG 3500 or equivalent.

FLE 6925 Workshop 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, language proficiency, language and society, bilingual-bicultural education, and error analysis and the language learner.

HEE 5335 Trends in Vocational Home Economics Education (3). Competency: Knowledge of current social, economic, and educational issues affecting the field of vocational home economics.

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 5925 Individual Study (1-3). Competency: The ability to identify, research, and report on a special problem in vocational home economics. Subject to approval of program advisor.

HEE 5927 Special Workshop Home Economics Education (1-3). Competency: Skill in developing, organizing, teaching, evaluating, and administering
programs related to specified aspects of home economics education.

HEE 6156 Teaching Home Economics in Diverse Educational Environments (3). Competency: Knowledge of current and evolving strategies, programs, and materials to teach and evaluate home economics.

HEE 6915 Research in Home Economics Education (3). Competency: The 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 Workshop in Home Economics Education (1-3). Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specific aspects of home economics education.

HEE 6937 Seminar in Home Economics Education (3). Competency: Application of selected instructional, curricular, and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program advisor.

HME 5225 Problems of Home Management in Contemporary Society (3). Influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other social situations. Prerequisites: COA 2410, HME 4230, or permission of instructor.

HME 5255/EEX 5771 Independent Living for the Handicapped (3). Explores the special home and personal living skills required in order for persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psychosocial services, health, physical education and recreation, social work, home economics, or anyone planning to work with the elderly or handicapped. Approved for certification for teachers of the mentally retarded.

HSC 5455 Basic Driver Education (3). Content includes knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement.

HSC 5456 Advanced Driver Education (3). Content includes advanced skills for the teaching of driver's education. Prerequisite: HSC 5455.

HSC 5465 Administration and Supervision of Driver Safety Education (3). Content includes competencies for teacher preparation and improvement in driver and traffic safety education. Prerequisites: HSC 5455 and HSC 5456.

LAE 5415 Children's Literature (3). Designed to develop a critical analysis of the purposes, strategies for teaching, and evaluation of literature for children. Prerequisites: RED 4150 and LAE 4314, or their equivalent.

LAE 5908 Individual Study (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

LAE 5927 Workshop in Language Arts (3). Offers opportunities for elementary school teachers to increase their understanding of reading language arts instruction, K-6.

LAE 5945 Practicum: English Education (5). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track of the M.A. Program and completion of prerequisite coursework in education and subject matter area.

LAE 6305 Instruction in Early Childhood Language Arts (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in preschool and early childhood education.

LAE 6355 Instruction to Elementary Language Arts (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

LAE 6399 Teaching English in the Secondary School (3). Analysis of methods, programs, and materials for teaching English in the junior 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 Workshop 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 5600 Physical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of program design, development, and implementation 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.F. specialist and the T.R. administrator.

LEI 5719 Client Assessment, Evaluation and Documentation in T.T. (3). The course addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands.

LEI 5907 Individual 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 and department chairperson is required.

LEI 6725 Administrative Aspects of Therapeutic Recreation (3). An in-de-
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pfth examination of issues related to the roles and responsibilities of the Activity Therapies/Therapeutic Recreation Administrator.

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 is required.

MAE 5516 Diagnosis and Remediation in Mathematics (3). Strategies for studying symptoms, causes, and consequences of difficulties experienced by children in elementary school mathematics. Includes supervised case study and theoretical models. Prerequisite: MAE 4312.

MAE 5555 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 Individual Study (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of Instructor.

MAE 5923 Workshop in Elementary Math Education (3). Production and application of materials and strategies for teaching mathematics in elementary and middle schools.

MAE 5945 Practicum: Mathematics Education (6). Supervised teaching in a junior 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). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

MAE 6316 Instruction in Elementary Music (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

MAE 6345 Methodology of Music Teaching (3). Analysis of methods, programs, and materials for teaching music in the public schools, and development of music pedagogy skills.

MAE 6815 Acoustical and Psychological Foundations of Music Behavior (3). An overview of acoustical, psychological, and physiological foundations of music as it influences human behavior. The course will deal with musical acoustics, the anatomy of the human hearing apparatus, perception, reactions, personality, mood and powers of discrimination.

MAE 6925/26 Workshop in Music Education (1-3). Applications of materials and techniques in music education in a laboratory or field setting.

MAE 6938 Seminar in Music Education (3). Seminar in music programs in the United States and other countries, and current issues and problems facing the music educator.

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 Specialists (3). The course prepares the student for the American College of Sports Medicine’s Exercise Specialists 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 will include an analysis of psychological variables which might influence physical performance. Topics to be discussed include personality development, motivation, anxiety, tension, stress, aggression, attribution theory, and social facilitation. The course is intended for prospective physical educators and others interested in motor performance.

PET 5236C Perceptual Motor Learning (3). Students will demonstrate knowledge and understanding of various approaches to, and theories of, perceptual motor learning, with special emphasis in physical education. Perceptual motor tasks will be performed as well as taught by the students.

PET 5256C Sociology of Sport (3). Students will demonstrate a thorough understanding of the sociological bases of sport and will actively engage in a field study involving a particular phase of sport and society.

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 in the Elementary School (3). Examination of objectives, content, methods of teaching, and evaluative techniques in elementary school physical education. Emphasis on curriculum development and refinement of teaching skills.

PET 5476 Sports Management and Administration (3). Examination of skills and knowledge required in the management and administration of sports-related careers in athletics, recreation, or industry. Prerequisites: Basic management courses: MAN 3025, PAD 4432 or equivalent.

PET 5625C Sports Medicine (3). Advanced conditioning techniques,
strength and cardio-vascular endurance training are presented. The prevention and treatment of overuse injuries are also emphasized. Prerequisite: PET 3351.

PET 5906 Individual Study (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 Workshop in Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting.

PET 5931 Special Topics In Exercise Physiology (1-3). Designed to present contemporary issues and practices in exercise physiology. Prerequisite: PET 3360.

PET 5936 Special Topics In Physical Education (1-3). Designed to present contemporary issues and practices in physical education and sport.

PET 6597C Survey of Research in Physical Education (3). Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

PET 6775 Health Fitness Director (3). Designed to prepare the student for ACSM's Health Fitness Director certification. Prerequisite: PET 3351, PET 3587, 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, PEP 5115, and PEP 5116.

PET 6925-27 Workshop In Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting.

PET 6932 Seminar In Physical Education (3). Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport.

PET 6940 Internship In Exercise Physiology: Graduate (3-6). Clinical experience, supervised by physician, designed to provide the student with competence in exercise prescription and leadership in preventive and rehabilitative outpatient exercise programs. Prerequisites: PET 5387, PEP 5115, and PEP 5116.

PET 6944 Supervised Field Experience (3-9). Students may use this course to become involved in an in-depth study, research project, or any one of a variety of other activities, under the guidance of a faculty member.

RED 5447 Analysis and Production Reading Materials (3). Exploration, creation, and evaluation of basic reading materials, commercial and non-commercial. Prerequisite: RED 4150 or equivalent.

RED 5448C Teaching Reading by Computer (3). Evaluation and creation of computer programs for teaching reading in grades 4-12. No prior computer experience is required.

RED 5911 Individual Study In Reading (1-3). Individual investigation in the area of instruction. Permission of instructor required.

RED 5925 Workshop In Reading Education (3). An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in reading education.

RED 6155 Instruction In Elementary Reading (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

RED 6247 Organization and Supervision of Reading Program (3). The organization and supervision of reading programs; problems of organization and supervision; continuity of school-wide programs, emphasis on leadership responsibilities. Prerequisites: EDF 5481.

RED 6305 Instruction In Early Childhood Reading (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

RED 6336 Reading in the Content Areas (3). Strategies for developing the reading abilities of students in specific subject areas. Stresses vocabulary and comprehension development, study skills, library usage, reasoning, and motivating reading. Prerequisites: None.

RED 6515 Programs of Remediation In Reading (3). A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: RED 6155 or 6305, RED 6546, or their equivalents.

RED 6546 Diagnosis of Reading Difficulty (3). Techniques for analyzing and clarifying reading difficulties. Prerequisite: RED 6155 or 6305, or its equivalent.

RED 6747 Research In Reading (3). A course to study significant research in reading and research methodology, involves planning and research in reading. Permission of instructor required. Prerequisite: EDF 5481.

RED 6805 Practicum In Reading (3). An analysis of reading difficulties through various teaching techniques and programs.

RED 6845 Clinical Procedures In Reading (3). Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting. Prerequisites: RED 6515, RED 6546.

RED 6932 Seminar In Reading Education (3). An advanced master/beginning doctoral course dealing with advances in the theory and practice of reading instruction. Prerequisites: Permission of instructor and RED 6747.

RED 6932 Special Topics In Reading Education (3). In-depth exploration of a specific area, issue, or practice in reading education. Repeatable, but Master's in Reading students may count no more than two special topics courses toward the degree.

RED 6971 Thesis In Reading Education (6). Design, implementation, and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor.

RED 7938 Doctoral Seminar In Reading Education (3). Advanced study in current theories and research related to reading education. Prerequisites: RED 6747, RED 6932, EDF 6486.

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 Individual Study (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

SCE 5930 Workshop In Elementary Science Education (3). Focus on content, methods, and materials needed for teaching science in the elementary school, K-6.

SCE 5945 Practicum: Science Education (6). Supervised teaching in a junior
or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

SCE 6306 Instruction In Early Childhood Science (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

SCE 6315 Instruction In Elementary Science (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

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 development in Science Education Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486.

SCE 7761 Research In Science Education (3). Application of research methodology to Science Education. Analysis of current research. Development of research proposal In Science Education. Conduct field study. Prerequisites: SCE 6933, EDF 6486, SCE 7165. Corequisite SCE 7938.

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.


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 6193L: Prerequisites: SPS 6191, SPS 6192.

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192.

SPS 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 Individual Study (1-3) (ARR). The student plans and carries out an individual study project under direction. Prerequisite: Consent of instructor.

SSE 5929 Workshop In Elementary Social Studies Education (3). Focus on content, methods and materials needed for teaching social studies in the elementary school, K-6.

SSE 5945 Practicum: Social Studies Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite coursework in education and subject matter area.

SSE 6305 Instruction In Early Childhood Social Studies (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

SSE 6355 Instruction In Elementary Social Studies (3). Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

SSE 6394 Social Studies In Other Nations (3). The course will examine the concept of social studies as a subject area in elementary and secondary schools found in both developed and developing nations. Comparisons and contrasts will be made. Prerequisites: SSE 6633, SSE 6939.

SSE 6633 Teaching Social Studies In the Secondary School (3). Analysis of methods, programs, and material for teaching social studies in the junior 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, STA 5166, EDF 6403 or EDF 6475.

SSE 6925-28 Workshop In Social Studies Education (1-3). Production and application of materials and techniques in social studies education in a laboratory or field setting.

SSE 6933 Seminar In Social Studies Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor.

SSE 7938 Doctoral Seminar In Social Studies Education (3). Advanced doctoral study in current theories and research related to social studies.
education. Prerequisites: SSE 6939, EDF 6486.

TSL 5142 Curriculum Development in English as a Second Language (3).
Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult). Prerequisite: TSL 6341.

TSL 5371 Special Methods of TESOL (3). Investigation of modern techniques for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to speakers of other languages. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. Prerequisite: LIN 3010.

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College of Education

Dean
I. Ira Goldenberg

Associate Dean for Academic Affairs
Robert Voss

Associate Dean for Student and Community Services
Toni Bilbao

Director of Budget and Finance
Carmen Mendez

Assistant Dean for North Miami Campus/Broward
Janice R. Sandiford

Chairpersons:

Educational Leadership, and Policy Studies
Stephen M. Fain

Educational Psychology and Special Education
Stephen S. Strichart

Health Physical Education and Recreation
Ida F. Chadwick

Middle, Secondary and Vocational Education
Luis A. Martinez-Perez

Elementary Education
Alcia Mendoza

Urban, Multicultural and Community Community
Robert V. Farrell

Coordinators/Directors

Coordinator of Doctoral Programs
Robert Voss

Director of Internship and Student Teaching
TBA

Director of Student Services
Susan H. Lynch

Faculty

Alvarez, Carlos M., Ph.D. (University of Florida), Associate Professor;

International Development Education, Educational Psychology, Educational Research, Educational Leadership, and Policy Studies

Badia, Amhilda, Ph.D. (University of North Carolina, Chapel Hill), Associate Professor, Modern Language Education, Middle, Secondary, and Vocational Education

Baum, Rosemere, Ph.D. (Pennsylvania State University), Associate Professor, Home Economics Education, Middle, Secondary and Vocational Education

Bath, John B., Ph.D. (Syracuse University), Assistant Professor, Elementary Mathematics and Science Education, Elementary Education

Billao, Toni, M.A. (University of Miami), Associate Dean, Elementary Education, Elementary Education

Bradley, Curtis H., Ed.D. (Temple University), Professor, Organizational Training, Vocational-Industrial Education, Middle, Secondary and Vocational Education

Blucker, Judith A., Ph.D. (Florida State University), Professor, Health and Physical Education, Curriculum and Instruction, and Vice Provost

Campbell, Richard, Ed.D. (Indiana University), Professor, Science Education, Curriculum and Instruction, Dean of Graduate Studies, and Director of Institutional Development

Carpenter, John A., Ph.D. (University of Southern California), Professor, Educational Foundations, Educational Leadership, Urban, Multicultural and Community Education

Chadwick, Ida F., Ph.D. (Florida State University), Associate Professor and Chairperson, Physical Education, Health, Physical Education and Recreation

Chang, David Y., M.A. (Florida International University), Assistant Professor, Art Education, Middle, Secondary and Vocational Education

Cheyney, Wendy, Ed.D. (University of Miami), Associate Professor, Special Education for Learning Disabilities, Educational Psychology and Special Education

Cistone, Peter J., Ph.D. (Pennsylvania State University), Professor, Educational Leadership, Educational Leadership and Policy Studies

Cook, Joseph B., Ed.D. (University of Florida), Professor, Community College Teaching, Urban, Multicultural and Community Education

Crabtree, Myrna P., Ed.D. (Teachers College, Columbia University), Professor, Home Economics Education, Middle, Secondary and Vocational Education

Dinijian, Victoria J., Ph.D. (University of Pittsburgh), Professor, Early Childhood Education, Elementary Education

Divito, Charles, Jr., Ph.D. (Florida State University), Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Escotet, Miguel Angel, Ph.D. (University of Nebraska), Visiting Professor (Courtesy), International Development Education and Educational Psychology, Educational Leadership, and Policy Studies

Fain, Stephen M., Ed.D. (Teachers College, Columbia University), Professor and Chairperson, Curriculum and Instruction, Educational Leadership and Policy Studies

Farrell, Robert V. Ph.D. (Teachers College, Columbia University), Associate Professor and Chairperson, Social Foundations of Education, Urban, Multicultural and Community Education

Fisher, Allen, Ph.D. (University of Connecticut), Associate Professor, Educational Leadership, Educational Leadership and Policy Studies

Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor, Educational Research, Educational Leadership and Policy Studies, and Vice President for North Miami Campus

Gavilan, Marisol, Ed.D. (University of Tennessee), Associate Professor, Educational Psychology and Bilingual Education/TESOL, Educational Psychology and Special Education

Gay, Lorraine R., Ph.D. (Florida State University), Professor, Educational Research, Educational Leadership and Policy Studies

Gilbert, Robert K., Ph.D. (University of Minnesota), Associate Professor, Mathematics Education, Middle, Secondary and Vocational Education

Goldenberg, I. Ira, Ph.D. (University of Connecticut), Professor, Urban, Multicultural and Community Education and Dean

Greenberg, Barry, Ph.D. (New York University), Professor, Educational Research and Community College Teaching, Educational Leadership and Policy Studies

Grosse, Christine Uber, Ph.D. (University of North Carolina, Chapel Hill), Assistant Professor, TESOL,
Mohamed, Dominic A., Ph.D.
(University of Minnesota), Associate Professor, Vocational Administration and Supervision and Vocational Education, Middle, Secondary and Vocational Education

Morrison, George S., Ed.D.
(University of Pittsburgh), Professor, Early Childhood Education and Urban Education, Elementary Education

Nathanson, David E., Ph.D.
(University of Minnesota), Professor, Special Education for the Gifted/Mental Retardation, Educational Psychology and Special Education

Novoa, Loriana M., Ed.D.
(Harvard University), Assistant Professor, Special Education, Educational Research, Educational Leadership and Policy Studies

O'Brien, George E., Ph.D.
(University of Iowa), Assistant Professor, Science Education, Middle, Secondary and Vocational Education

Pearson, George B., Ed.D.
(University of Oregon), Professor, Physical Education, Health, Physical Education and Recreation

Pell, Sarah W. J., Ed.D.
(Duke University), Associate Professor, Educational Leadership, Educational Leadership, and Policy Studies

Pennington, Clement, Ed.D.
(Pennsylvania State University), Associate Professor, Art Education, Middle, Secondary and Vocational Education

Relchbach, Edward M., Ed.D.
(Wayne State University), Associate Professor, Elementary Education, Elementary Education

Rosenberg, Howard, Ed.D.
(Teachers College, Columbia University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education

Ryan, Colleen A., Ph.D.
(Ohio State University), Associate Professor, Special Education for the Emotionally Handicapped, Urban, Multicultural and Community Education

Sandiford, Janice R., Ph.D.
(Ohio State University), Associate Professor, Health Occupations Education and Computer Education, Middle, Secondary and Vocational Education, and Assistant Dean for North Miami Campus/Broward

Shostak, Robert, Ph.D.
(University of Connecticut), Professor, English Education and Computer Education, Middle, Secondary and Vocational Education

Skalko, Thomas, Ph.D.
(University of Maryland), Therapeutic Recreation, Health, Physical Education and Recreation

Smith, Donald C., Ph.D.
(Syracuse University), Professor, Educational Psychology and School Psychology, Educational Psychology and Special Education

Smith, Douglas H., Ph.D.
(Ohio State University), Associate Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Strichart, Stephan S., Ph.D.
(Yeshiva University), Professor and Chairperson, Special Education for Learning Disabilities, Educational Psychology and Special Education

Testa, Robert F., Ph.D.
(University of Miami), Associate Professor, Educational Foundations and Music Education, Middle, Secondary and Vocational Education

Toomer, Jethro, Ph.D.
(Temple University), Professor, Educational Psychology and Community Counseling, Educational Psychology and Special Education

Tucker, Jan L., Ph.D.
(Indiana University), Professor, Social Studies Education and Global Education, Middle, Secondary and Vocational Education

Vigilante, Nicholas J., Ph.D.
(Ohio State University), Professor Emeritus, Mathematics Education, Elementary Education, Middle, Secondary and Vocational Education

Vos, Robert, Ed.D.
(Rutgers University), Associate Professor and Associate Dean, Organizational Training, Technical Education, and Vocational Education, Middle, Secondary and Vocational Education

Wagner, Michael J., Ph.D.
(Florida State University), Professor, Music Education, Middle, Secondary and Vocational Education

Walker, Judith Jones, Ph.D.
(University of Miami), Assistant Professor, Counselor Education, Educational Psychology, Educational Psychology and Special Education

Winter, Robert S., Ph.D.
(University of Illinois), Associate Professor, International Development Education, Educational Technology, Educational Leadership and Policy Studies

Wolff, Robert M., Ph.D.
(Ohio State University), Associate Professor, Parks and Recreation Management, Health, Physical Education and Recreation

Woods, Sandra L., Ed.D.
(Rutgers University), Associate Professor, Elementary Education
College of Engineering and Design

Gordon Hopkins, Dean
Gautam Ray, Associate Dean
Adela Smith, Associate Dean
Gustavo Rolg, Acting Associate Dean
Neil Hout-Cooper, Director of Information Systems and External Programs

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.

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. Changes may be made without advance notice.

The College believes 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 Appeal Procedures

Academic Appeals not covered under the Academic Misconduct Policy shall be processed in the following manner:

1. The student and faculty member will meet informally in an attempt to resolve the problem within 45 days of the alleged occurrence.

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.

3. 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.

4. 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 Step 2.

5. 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.

6. The Dean will provide a written decision within ten days of the meeting in Step 3.

7. The Dean's decision is final.

Civil and Environmental Engineering

Oktay Ural, Professor and Chairperson
Robert J. Fennema, Assistant Professor
Jeffrey H. Greenfield, Assistant Professor
Luis A. Prieto-Porter, Professor
L. David Shen, Associate Professor
Vasant H. Surti, Professor
Lambert Tall, Professor
Berrin Tansel, Visiting Assistant Professor
Leroy E. Thompson, Professor
Fernando Tinoco, Visiting Professor
Ton-Lo Wang, Associate Professor
Graduate Programs

Leroy E. Thompson, Graduate Studies 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 nonthesis 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 should hold a Bachelor's degree in engineering, the natural sciences, or a related field. Students who do not meet the stated criteria as developed by the faculty may be considered for admission if they complete the required prerequisites and satisfy any deficiencies.

Master of Science in Environmental and Urban Systems

This program prepares the student to practice urban and regional planning, as a discipline to address social, physical, and economic problems of neighborhoods, cities, suburbs, metropolitan areas, and larger regions. The student must identify problems and opportunities, devise alternative policies or plans and effect their implications.

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. All graduate applicants, regardless of previous grade point average or degrees, are required to submit their GRE (general) scores. An applicant must present:

1. A "B" average in upper level undergraduate work, or a 3.0 GPA.
2. A combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE).

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 5356 Solid Wastes
      ENV 5666 Water Quality Management
   c. Take a mathematics course as determined by the advisor for the thesis or project.
   d. Take at least one credit of ENV 6935 Environmental Graduate Seminar.
e. Complete a minimum of nine credit hours of courses at the 6000 level.

f. Complete eight credit hours of ENV 6971 Thesis, or two 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 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; ECI-Engineering, Civil; EGM-Engineering, Mechanics; EGN-Engineering, General; ENV-Engineering, Environmental; SUR-Surveying and Related Areas; TTE-Transportation and Traffic Engineering

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: Permission of instructor.

CCE 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 4152.

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: ECI 4312.

CCE 5565 Computer Applications in Structures (3). Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. Prerequisites: CES 4605 and CES 4704.

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 4152, CES 4605.

CES 5715 Prestressed Concrete Design (3). The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: CES 4704.

CES 5800 Timber Design (3) The analysis and design of modern 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 4152, CES 4704, ECI 4305.

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 Review (2). Prepares qualified candidates to take the P.E. written examination in the field of Civil Engineering. Reviews hydraulics, hydromechanics, structures, concrete and steel design, etc.

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 3521.


ECI 6526 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 tunneling techniques. Prerequisite: ECI 4312.


ECI 6617 Groundwater Hydrology (3). Groundwater occurrence, movement, hydraulics, and application to groundwater flow, including saltwater intrusion, groundwater recharge and drainage, seepage through earth dams. Prerequisite: ENV 3621.

ECI 6637 Statistical Hydrology (3). Quantitative determination of surface water run-off from a statistical approach. Prerequisite: ENV 3621.


ECI 6617 Groundwater Hydrology (3). Groundwater occurrence, movement, hydraulics, and application to groundwater flow, including saltwater intrusion, groundwater recharge and drainage, seepage through earth dams. Prerequisite: ENV 3621.

ECI 6637 Statistical Hydrology (3). Quantitative determination of surface water run-off from a statistical approach. Prerequisite: ENV 3621.

ECI 6616 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.

ECI 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.

ECI 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.

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 are assessed. Prerequisite: EES 5135 or permission of instructor.

EES 5506 Occupational Health (3). Effects, assessment, and control of physical and chemical factors in man's working environment, including chemical agents, electromagnetic radiation, temperature, humidity, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5605C Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 5606 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electromagnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6508 Occupational Health and Toxicology (3). A continuation of EES 5506. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 5506.

EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Moire. Prerequisites: EGM 3520, EGM 5653.

EGM 5351 Finite Element Methods in Mechanics (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydro-elasticity, etc. Prerequisite: EGM 3520.

EGM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of single and multi-degree of freedom structures, including damping of lumped and distributed parameters systems. Prerequisite: MAP 3302. Corequisite: EGM 5533.

EGM 5533 Advanced Mechanics of Materials (3). Extension of the fundamental principles of engineering mechanics to include curved beams, warping, stability, etc. Prerequisites: CES 4152, MAP 3302.

EGM 5653 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 4152.


ENV 5007 Environmental Planning (3). Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes, and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality. Prerequisite: Permission of instructor.

ENV 5008 Appropriate Technology for Developing Countries (3). The use of appropriate technology in developing countries. Local traditions and adaptations. Local materials in housing, food production, cottage industries. Cooperatives and training.

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 the instructor.

ENV 5065 Vector and Pest Control (3). Effects and management of public health vectors and communicable diseases. Prerequisite: ENV 5500 or permission of instructor.

ENV 5105 Air Quality Management (3). The air pollution problem, principal types, sources and dispersion of pollutants. Physical, economic, and legal aspects of control of atmospheric pollutants.

ENV 5116 Air Sampling Analysis (3). Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation. Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisite: ENV 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, after-burners, by-product recovery. Stoichiometry of combustion mixtures and basic industrial plant designs are discussed. Prerequisite: ENV 4101 or ENV 5105.

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: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512L.

ENV 5512L Water and Wastewater Analysis Laboratory (1). Experiments are conducted which measure gross organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, pH, nitrate, nitrite, TKN, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512L.

ENV 5517 Water and Wastewater Treatment (3). Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of instructor.

ENV 5559 Regional Planning Engineering (3). Systems 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 Modeling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in an 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, chemical, and biological unit operations as applied to the advanced treatment of water and wastewater. Prerequisite: ENV 4514 or equivalent.

ENV 6511 Advanced Unit Operations II (3). A continuation of ENV 6510 including the re-use of treated wastewaters and of sludges. Prerequisite: ENV 6510.

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 waters and wastewater. Prerequisite: 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 6916 Engineering Project (1-2). Individual work culminating in a professional practice-oriented report suitable for the requirements of the M.S. degree program. 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.


TTE 5015 Applied Statistics In Traffic and Transportation (3). Civil and Environmental Engineering statistics methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prerequisite: Graduate standing.

TTE 5215 Urban Traffic Characteristics (3). Speed and volume studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: TTE 4201.

TTE 5315 Highway Safety Analysis (3). Accident reconstruction, intersection analysis, highway safety standards, speed estimations from skidding, momentum/energy relationships, human factors. Prerequisites: STA 3033, TTE 4201.

TTE 5506 Urban Mass Transit and Transportation Planning (3). Models of urban growth, population forecasts, trip generation, trip distribution, and trip assignment models, model split, system evaluation, transit marketing. Prerequisite: TTE 4201.

TTE 5526 Airport Planning and Design (3). Theory and principles of airport planning and design, including both general aviation and major commercial airports. Design projects required. Prerequisite: TTE 5835 or consent of instructor.

TTE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in transportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: TTE 4201.

TTE 5805 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisite: SUR 4201.


TTE 5925C Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: TTE 4201.

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Electrical and Computer Engineering

James Story, Associate Professor and Chairperson
Malek Adjouadi, Assistant Professor
Jean Andrian, Associate Professor
Tadeusz Bajil, Associate Professor
Manuel Cereljo, Professor
Mark Hagmann, Associate Professor
Malcolm Heimer, Associate Professor
W. Kinzy Jones, Associate Professor
Grover Larkins, Assistant Professor
Edward Lee, Professor
Osama Mohammed, Professor  
Dong Park, Assistant Professor  
Gustavo Rolg, Associate Professor  
Laura Ruiz, Instructor  
Pierre Schmidt, Professor  
Frank Urban, Associate Professor  
Kang Yen, Associate Professor

Master of Science in Electrical Engineering

The Department of Electrical Engineering offers both thesis and non-thesis options for the Master’s Degree. A student seeking the Master’s degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master’s degree must be completed during the five years immediately following the date of admission.

The program shall provide a broad education, covering more than one field, followed by in-depth studies of areas of interest. Multi-disciplinary programs such as Computer Engineering, Systems Engineering, and Biomedical Engineering are also available.

Admission Requirements

The following is in addition to the University’s graduate admission requirements.

1. A student seeking admission into the graduate program must have a Bachelor’s degree in Electrical Engineering or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.

2. An applicant must present a 3.0 GPA in upper level work and a combined score of 1000 on the Graduate Record Examination (GRE).

3. Applicants who do not meet the above criteria will be evaluated by a committee for possible admission.

Graduate Requirements

All matters concerning academic regulations and policies are decided by the Dean of the School. The decisions will be made on the advice and recommendations of the specific Department Chairperson of the unit of the program, and by the Committee on Admission and Academic Performance.

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. No grade below ‘C’ will be accepted in a graduate 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 nine graduate semester hours with a grade of “B” or higher can be transferred from other accredited institutions).

6. Completed an acceptable graduate thesis if required of the selected program.

7. Students must maintain an overall GPA of 3.0. 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.

Thesis Option

A student shall complete 36 semester credit hours of technical course work including a maximum of six semester credit hours and 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 credit hours 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 set for 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, completion of any changes or additions, or both, as required by the committee, each member of the committee will sign

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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<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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<tr>
<td>EEL 5482</td>
<td>Fields and Waves Engineering</td>
<td>3</td>
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<tr>
<td>EEL 5500</td>
<td>Digital Communications Systems I</td>
<td>3</td>
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<tr>
<td>EEL 5725</td>
<td>Digital Systems Engineering I</td>
<td>3</td>
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<tr>
<td>EEL 5171</td>
<td>Advanced System Theory</td>
<td>3</td>
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<tr>
<td>EEL 5352</td>
<td>Bipolar Transistors</td>
<td>3</td>
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<td>EEL 6261</td>
<td>Power Systems Engineering</td>
<td>3</td>
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<tr>
<td>EEL 6311</td>
<td>Advanced Electronics Systems I</td>
<td>3</td>
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Select two courses with advisor approval

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<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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<tr>
<td>EEL 6020</td>
<td>Numerical Analysis of Electrical Devices</td>
<td>3</td>
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<tr>
<td>MAA 4211</td>
<td>Advanced Calculus</td>
<td>3</td>
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<tr>
<td>MAA 4402</td>
<td>Complex Variables</td>
<td>3</td>
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<tr>
<td>MAD 3401</td>
<td>Numerical Analysis</td>
<td>3</td>
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<tr>
<td>MAP 4401</td>
<td>Advanced Differential Equations</td>
<td>3</td>
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<tr>
<td>MAP 5117</td>
<td>Mathematics and Statistics Modelling</td>
<td>3</td>
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<tr>
<td>STA 5546</td>
<td>Probability Theory I</td>
<td>3</td>
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<tr>
<td>STA 5447</td>
<td>Probability Theory II</td>
<td>3</td>
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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.

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 nine 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.

Non-Thesis Option (By petition only).

A student shall complete 36 semester credit hours of technical coursework, approved by his or her supervisory committee. The candidate is required to pass a comprehensive final examination. This examination is given near the end of the candidate’s final semester by a committee composed of three faculty members appointed by the department. A student who fails the examination may not attempt it again until one semester has elapsed or until additional work prescribed by the examining committee is completed. The student may retake the examination only once. The examination will test the student’s general ability in his or her areas of study as determined by the student’s supervisory committee.

**Common Core**
- EEL 5741 Advanced Microcomputers
- EEL 5718 Computer Communication Network Engineering

**Parallel Computer Design**
- VLSI Design

**Electives Engineering**
- EEL 5725 Digital Systems Engineering I
- EEL 6726 Digital Systems Engineering II
- EEL 6575 Data Communications Engineering
- EEL 6444 Optical Fiber Communications Systems
- EEL 6505 Digital Signal Processing
EEL 6509 Digital Communications by Satellite

EEL 6253 Computer Analysis of Power Systems

EEL 6758 Engineering Design of Microprocessor Based Operating Systems

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.

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 4410 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 5145 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140 or permission of instructor.

EEL 5171 Advanced Systems Theory (3). Space-time 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 5352 Bipolar Junction Transistors (3). Bipolar junction transistor physics. Semiconductor bulk properties at equilibrium and nonequilibrium, PN junction theory. Theory of the bipolar junction transistor. Prerequisite: EEL 3396 or permission of instructor.

EEL 5353 Field Effect Transistors (3). Field effect device physics and technology. MOS capacitor. DC and AC characteristics of the MOS transistor. The MOS transistor in dynamic operation. Prerequisites: EEL 3396 or permission of instructor.

EEL 5366 Industrial Electronics (3). A study of solid state devices for the control of power, their applications and limitations in power switching circuits and in the control of physical transducer. Prerequisites: EEL 4213, EEL 4304 or permission of instructor.

EEL 5371 High Frequency Amplifiers (3). Analysis and design of high frequency amplifiers and oscillators: stability, scattering parameters, use of the Smith chart and other practical design tools, noise. Prerequisites: EEL 4304, EEL 4410 or permission of instructor.

EEL 5437 Microwave Engineering (3). Microwave guides. Microwave tubes, Microwave solid state devices. Microwave integrated circuits. Microwave enclosures. Prerequisite: EEL 4410 or permission of instructor.

EEL 5492 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 matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisite: EEL 5501 or permission of instructor.

EEL 5501 Digital Communication Systems II (3). This course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisite: EEL 5500 or permission of instructor.

EEL 5524 Statistical Communication Theory (3). Noise, random processes, correlation, spectral analysis in the analysis and design of communication systems. Optimization techniques; minimum mean square error. Prerequisite: EEL 3514.

EEL 5563 Introduction to Optical Fibers (3). Use of fiber optics as a communication medium. Principles of fiber optics; mode theory; transmitters, modulators, sensors, detectors and demodulators; fiber data links. Prerequisites: EEL 3514, EEL 4314 and EEL 4410 or permission of instructor.


EEL 5718 Computer-Communication Network Engineering (3). System engineering synthesis, analysis, and evaluation of computer-communication networks. Network design, routing and flow control, telecommunication traffic engineering, transmission, switching, etc. Prerequisite: EEL 5501 or permission of instructor.

EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4709 or permission of instructor.

EEL 5725 Digital Systems Engineering (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 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of instructor.

EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and diffusion eddy current 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 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop eqs. and node pair eqs., state space networks, computer solutions. Prerequisite: EEL 3112 and FORTRAN or permission of instructor.

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 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, long 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 electronic systems. 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, I^L, CCD, bubble technologies, Ion implantation characteristics, Lithographic techniques. Prerequisite: EEL 3396, EEL 4304 or permission of instructor.

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 6443C 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 nonlinear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEL 4314, Corequisite: EEL 5563 or permission of instructor.

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic waveguide, optical devices sources, photo-detectors, receiver and transmitter designs. Prerequisite: EEL 5501 or permission of instructor.

EEL 6505C Digital Signal Processing (3). Treatment of digital signal and system characteristics: Z transforms and FFT theory. Real time and correlation functions. Multidimensional signal processing and digital filtering. Prerequisites: EEL 4510, EEL 4314, EEL 5653 or permission of instructor.

EEL 6509 Digital Communications by Satellite (3). This course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisite: EEL 5501 or permission of instructor.

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDL. Real time switching techniques. Microprocessor based network topologies. Busing schemes such as VME, MULTIB, RS232. Prerequisites: EEL 4746 and EEL 4314 or permission of instructor.

EEL 6614 Modern Control Theory I (3). Graduate level treatment of modern control systems. Optimal control of feedback systems. Performance measures, Pontryagin's minimum principle, dynamic programming, numerical techniques. Prerequisite: EEL 5171 or permission of instructor.

EEL 6615 Modern Control Theory II (3). Graduate level course in Stochastic control. Stochastic processes, linear estimation, Kalman filtering techniques in state estimation. Design of feedback control in the presence of noise. Prerequisite: EEL 6614 or permission of instructor.

EEL 6666 Intelligent Electronic Machine Design (3). Design of electronic systems with sensors and transducers, to function as an integrated expert system in process control and industry. Computer vision, image processing and robotics. Prerequisites: EEL 4304, EEL 3712 and EEL 4746 or permission of instructor.

EEL 6726C Digital Systems Engineering (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 6905 Individual Work (3). 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 adviso.

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. Prerequisites: 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.

Master of Science in Industrial Engineering

Sergio Martinez, 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 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

By petition only. The candidate is required to pass a comprehensive final examination. The exam will be administered by committee.

Industrial Engineering Electives

EIN 5332 Quality Engineering
EIN 5359 Industrial Financial Decisions
EIN 6117 Advanced Industrial Information Systems
EIN 6249 Occupational Biomechanics
EIN 6367 Design of Production Systems
EIN 6319 Advanced Work Design
EIN 6345 Inventory Control Systems
EIN 6357 Advanced Engineering Economy
EIN 6392 Product Design for Manufacturability and Automation
EIN 6397 Advanced Topics in Manufacturing Automation
EIN 6398 Advanced Manufacturing Process Engineering
EIN 6603 Applied AI/Expert Systems in Industrial Engineering
EIN 6606 Robotic Systems
EIN 6932 Graduate Seminar
EIN 6971 Master’s Thesis
EIN 5115 Survey of Industrial Engineering Basics
ESI 5315 Survey of Operations Research
ESI 6316 Applications of OR in Manufacturing
ESI 6524 Applied Industrial Systems Simulation
ESI 6546 Network Flow Analysis

Course Description

Description of Prefixes

EIN-Engineering, Industrial; ESI-Engineering Systems Industrial.

EIN 5115 Survey of Industrial Engineering Basics (3). Review of the following topics: Human Factors, Work Design, Automation & Robotics, Engli-
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.

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.

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.

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 6367 Design of Production Systems (3). The design of an industrial enterprise including feasibility, plant layout, equipment specifications, auxiliary services, economics and scheduling.

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: EIN 3354.


EIN 6392 Product Design for Manufacturability and Automation (3). Overview and integration of the design-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395.

EIN 6397 Advanced Topics in Manufacturing Automation (3). Overview of manufacturing systems; evolution of controls and AI; material handling; automation, design, and robotics; cutting sensors; machine vision and autonomous manufacturing. Prerequisites: EIN 6392 and EIN 6398.


EIN 6603 Applied AI/Expert Systems in Industrial Engineering (3). Application of artificial intelligence and expert systems as engineering tools. Exploring the use of PCs and symbolic machine with various AI/Expert Systems software. Several projects are required. Prerequisites: CAP 5680.

EIN 6606 Robotic Systems (3). Basic robotic system principles, functional requirements of robotic systems, simulation of system preliminary design, and physical experimentation of robotic systems.

EIN 6632 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 6636 Design of Industrial Engineering Systems (3). Overview of systems theories. Systems design process including: Problem definition, analysis, generation of alternatives, systems evaluation, selection of preferred system, and implementation. Prerequisites: EIN 6345, ESI 6316, and ESI 6524.

EIN 6971 Master’s Thesis (1-3). The students following the thesis option should work on his/her thesis through this course.

ESI 5315 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 3323.

ESI 6546 Network Flow Analysis (3). Deterministic and stochastic network flow analysis; minimal cost flow, shortest route, max-flow, and out-of-kilter algorithms; constrained network analysis; and stochastic queueing networks. Prerequisite: ESI 3314.

Mechanical Engineering

M. Ali Ebadian, Professor and Chairman
S. Chellaiah, Assistant Professor
Wei Jang, Visiting Assistant Professor
W. Kinzy Jones, Associate Professor
Rene Leonard, Associate Professor
Cesar Levy, Associate Professor
Ian Radin, Visiting Assistant Professor
Gautam Ray, Professor
Richard Schoephoerster, Visiting Assistant Professor
Ebrahim Shrazi, Visiting Assistant Professor
### Master of Science in Mechanical Engineering

**Cesar Levy, 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. 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.

#### Course Requirements

All MSME degree seeking students must take the following five courses or equivalent as common core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 5315</td>
<td>Intermediate Analysis of Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGM 5615</td>
<td>Synthesis of Engineering Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EGM 6422</td>
<td>Advanced Analysis of Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 5709</td>
<td>Intermediate Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EML 5277</td>
<td>Computer Aided Design and Analysis of Mechanical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

An additional 21 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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 6586</td>
<td>Fluid Mechanics Applications In Physiological Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGM 6587</td>
<td>Applied Biomedical and Diagnostic Measurements</td>
<td>3</td>
</tr>
<tr>
<td>EGM 6588</td>
<td>Solid Mechanics Applications In Physiological Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 5103</td>
<td>Intermediate Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Thesis Requirement

Six semester hours (three credits maximum per semester) must be earned and an acceptable thesis must be completed. Upon the approval of the departmental committee, the thesis requirement may be replaced by two additional courses. Usually, this permission is granted to the student with considerable research and development related work experience.

Other Requirements:

1. Earn a minimum of 3.0 GPA average in all approved courses in the student's program of study.
2. Pass a comprehensive examination (given by the departmental committee) which may include an oral defense of the thesis project. Students with non-thesis option must also pass this comprehensive examination.

#### Course Descriptions

**Definition of Prefixes**

EGM - Engineering Mechanics; EGN - Engineering; General; EMA - Engineering; Materials; EML - Engineering; Mechanical

EGM 5315 Intermediate Analysis of Mechanical Systems (3). First course at the graduate level in the analysis of mechanical systems. Modeling of the system and analytical and numerical methods of solution of the governing equations will be studied. Fluid and thermodynamic systems will be emphasized in this course. Prerequisite: EGM 3311 or permission of instructor.

EGM 5354 Finite Element Method Application in Mechanical Engineering (3). Utilize the finite element method to solve problems in heat transfer, fluid dynamics, diffusion, acoustics, vibration, and electromagnetism, as well as the coupled interaction of these phenomena. Prerequisites: CGS 3420, EGM 3520, and EML 4140.


EGM 5935 Review of Topics in Mechanical Engineering (4). To prepare qualified candidates to take Mechanical Engineering PE written examination. Reviewed courses include Thermodynamics, Fluid Mechanics, Mechanics of Materials, Mechanical Design and Heat Transfer.

EGM 6422 Advanced Analysis of Mechanical Systems (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisite: EGM 5315 or permission of instructor.

EGM 6570 Fracture Mechanics (3). Failure criteria and the different modes of fracture; stress intensity factor; the J integral; viscous and plastic fracture mechanics and crack displacement models will be studied. Prerequisite: EGM 5615.

EGM 6586 Fluid Mechanics Application in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machine, dialysis units and heart valves will be discussed. Prerequisite: EGM 4580 or permission of instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of Hemodynamic measure-
Graduate solidification of level signs ISOals.

Department modynamicsstructor.

EMA Board to EMA classicalondtions; namics (3).

Prerequisites:

Prerequisite: EGM 4580 or permission of instructor.

EGM 6588 Solid Mechanics Application In Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of musculoskeletal system and trauma. Design application in orthotics and prosthe-
sis 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: EGN 5615 or permission of instructor.

EMA 5345 Advanced Topics in Materials Engineering (3). Topics include thermodynamics of solids, principles of physical metallurgy, including phase transformation and diffusion and analyti-
cal methods in materials engineering.

EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and legen-
dre transformations; Maxwell relations, first and second order phase transitions. Prerequisite: EML 4101 and EGM 3311.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible ther-
modynamics. Applications to mechanical, electromagnetic, and chemical systems, under ideal and real current in-
terest. Prerequisite: EML 3101.

EML 5125 Classical Dynamics (3). Kinematics of rigid body motion, Eulerian angles, lagrangian equations of motion, inertia tensor, momental ellipsoid. Rigid-body equations of motion, Euler’s equations, force-free motion, polhade and herpolhade, theory of tops and gyro-


EML 5277 Computer Aided Design and Analysis of Mechanical Systems (3). Computer-aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for planar kinematic systems will be emphasized. Prerequisite: EML 4250, EML 4535, or permission of instructor.

EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these tech-
niques are discussed for identification of mechanical structures, and machine diagnostics. Prerequisite: EML 4312.

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 5606 Advanced Refrigeration and Air Conditioning Systems (3). The various methods used in the ther-
mal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of produc-
ing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermoelectric, solar heating and cooling systems.

EML 5615 Computer Aided Design in Air Conditioning (3). Software will be used to demonstrarte heating, ventilat-
ing 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 ther-
mal and fluid control devices. Prerequisite: EML 4708.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential the-
ory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate equations. Prerequisite: EGM 3353.

EML 6153 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 droplet 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 compu-
tational methods. Prerequisite: EML 4140.

EML 6155 Convection Heat Transfer (3). Development and solution of govern-
ing equations of parallel flows, boundary layer flows, instability and tur-
bulence with convection heat transfer. Prerequisite: EML 4140.

EML 6157 Advanced Radiation Heat Transfer (3). Introduce the graduate stu-
dent to heat transfer by radiation for steady and unsteady one and multi-
dimensional systems. Radiation parameters effecting different systems will be studies. Prerequisite: EML 4140.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multidegree of freedom systems, discrete and continuous systems; vibration control and intro-
duction to vibration of non-linear systems. Prerequisite: EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and prac-
tical aspects of material failure including failure modes, life prediction, cor-
rosion with the goal of designing a safe product. Prerequisite: EGM 5615.

EML 6532 Advanced Application in Mechanical Computer Aided Design (3). Advanced CAD techniques in design of mechanical systems. Architec-
ture of CAD systems including database applications. Advanced computational geometry student programming. Prereq-
usites: EML 5277, EML 5277 or permis-
sion of instructor.


EML 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechan-
ics principles to high speed flows. Flows to be studied include flows with friction.
and heat loss/addition. Prerequisite: EML 4711.


EML 6805 Advanced Kinematics of Mechanisms and Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisite: EML 3262.

EML 6908 Independent Studies (1-3). Individual research studies available for qualified graduate students. The work is to be performed under the supervision of an advisor. A report is to be submitted. Students may register for 1 to 3 credits per semester. Prerequisite: Advisor's permission.

EML 6971 Masters Thesis (1-6). Masters thesis in any advanced topic, a report is to be submitted and an oral presentation is to be made. Students may register for 1 to 3 credits per semester. Total of 6 credits to be earned. Prerequisite: Advisor's permission.

School of Design

Gordon Hopkins, Dean
Adelle Smith, Associate Dean
José D. Mitraní, Chairperson, Construction Management
Leonardo Alvarez, Chairperson, Landscape Architecture and Architectural Studies
John Konarski, III, Chairperson, Retailing and Apparel Studies

The School of Design offers graduate degree programs in Construction Management and Landscape Architecture.

Community Involvement
The School maintains close ties with the landscape architecture, architecture, and construction industries. Industry advisory committees periodically review the curriculum to maintain its relevance to the needs of the Industry.

Admission Preparation
Prospective students who are considering majors within the School of Design must meet the University's graduate admission requirements. Many of the School's academic programs require extensive prerequisite preparation prior to enrollment in certain courses. Students should check the individual program requirements.

Construction Management

José D. Mitraní, P.E., Associate Professor and Chairperson
Irthash Ahmad, Assistant Professor
Gabriel Auroles, Associate Professor
Wilson Barnes, Assistant Professor and Coordinator, Broward Program
Bhaskar Chaudhari, Professor
Eugene D. Farmer, Assistant Professor
Ayman Morad, Assistant Professor
Julio Otao, Assistant Professor

Master of Science in Construction Management

The master's degree is rapidly becoming the entry level requirement for middle and upper level managerial positions in the construction industry. The primary goal of this program is to provide the knowledge and advanced skills essential for success in these positions. The program is flexible enough to accommodate graduates from other disciplines who may lack a part of the undergraduate background in construction management.

Students who hold four-year undergraduate degrees in construction management or its equivalent in related fields may normally complete the master's degree in one academic year as full-time students. "Equivalent in related fields" should include studies in construction materials and methods, structures, 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 following criteria:

1. Have a 'B' average (3.0 GPA) or better while registered as an upper-division student working toward a baccalaureate degree.
2. 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).

GRE or GMAT
All graduate students, regardless of undergraduate GPA, are required by the University to take the GRE or the GMAT. Students that did not take the GRE or the GMAT for admission into the program may take one no later than the second semester into their master's work.

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 materials and methods, structures, 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
The graduate student has a choice of either a thesis or non-thesis track towards graduation. The 33 semester hour thesis track consists of 30 semester hours of course work, and three semester hours of thesis (three hours for research and three hours for thesis preparation). The non-thesis (master's report) option consists of 36 semester hour of course work and six semester hours of master's report (three hours for research and three hours for report preparation). A student shall not register for either the master's thesis or master's report without first having received the approval from his/her advisor, supervisory committee, and the Chairman 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 an approved plan of study. The program of course work for a master's
degree must be approved by the student's advisor, supervisory committee, and Department Chair. No more than six credits from a previous master's degree program may be applied toward a second master's degree. These credits are applied only with the written approval of the Department Chair and the Dean of the College of Engineering and Design.

Transfer of Credit

Only graduate (5000 - 7000) 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 Chair and the Dean of the College of Engineering and Design, or from post-baccalaureate work at Florida International 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 supervisory committee and the Department Chair. Petitions for transfer of credit for a master's degree must be made during the student's first term of enrollment in the master's 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

The student's supervisory committee should be appointed as soon as possible after the student has been admitted to the master's 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 Chair.

Master's Thesis/Report

A student, as part of his/her plan of study, must prepare a written proposal for presentation to his/her graduate advisor, supervisory committee, and the Chair of the Department. 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 Chair, the student will be permitted to register for master's thesis or master's report.

Examination

A final comprehensive examination, oral, written or both, must be passed by the candidate. This examination, held on campus with all participants present, will cover at least the candidate's field of concentration and may include any other topics of general construction knowledge. In no case may it be scheduled earlier than the term preceding the semester in which the degree is to be conferred.

Time Limitation

All work, including transferred credit, counted toward the master's degree must be completed during the seven years immediately preceding the date on which the degree is awarded.

General Regulations

Registration

Each student must meet with his/her advisor each semester, prior to registering for the next semester. This meeting is intended to review and update the student's file.

Normal Loads

Students taking a minimum of nine semester credit hours per semester are considered full time students at the graduate level. Students taking under nine 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 these criteria wishing to take over 15 semester credit hours must have the approval of both the Chairman of the Department and the Dean of the College of Engineering and Design, prior to registering for an overload.

Students Rights and Responsibilities

It is the student's responsibility to obtain, become familiar with, and abide by all Departmental, College and University requirements and regulations. These include, but are not limited to:

1. The Florida International University Catalog.
2. Division of Student Affairs' Handbook on Rights and Responsibilities of Students.
3. Florida International University Student Grievance Procedure.

4. Department of Construction Management Curriculum and Program sheets.

5. All Department of Construction Management policies and regulations.

Grades

The Department of Construction Management requires a minimum grade of 'B' or better in all graduate work.

Grade of Incomplete: A grade of 'I' (Incomplete) may be granted, at the option of the Instructor and the Department Chair, to a student who, due to serious, documented, and verifiable extenuating circumstances beyond his/her control (such as illness requiring hospitalization) is unable to complete the work required to obtain a grade for a course. In no case shall a grade of 'I' be granted to a student because he/she is not passing a course and desires additional time to attempt to obtain a passing grade. A student granted a grade of 'I' must complete the work deemed by the Instructor necessary to complete the course no later than two semesters after the grade was assigned to the student, or the grade shall automatically revert to a grade of 'F' (failing grade).

Credit By Examination

The Department does not generally offer credit by examination for required core courses or elective courses. A student with outstanding, exceptional and documented skills in a particular subject as well as an outstanding academic record may request credit by examination, and it is the option of the Department Faculty and the Department Chairperson whether to grant the request.

Credit For Non-College Learning

The Department does not award credit for credit for non-college learning (life work experience).

Student Work

The Department reserves the right to retain any and all student work for the purposes of record, exhibition or instruction.

Normal Academic Progress

The student will have maintained normal academic progress when the student earns a minimum grade point average of 3.0 for all graduate work attempted.

Course Sequence and Prerequisites

Course prerequisites are clearly indicated on the Graduate Program sheets, available in the Department office. It is the students' responsibility, not the advisor's, to ascertain that required prerequisites have been taken and passed prior to registering for a course. Failure
to comply with prerequisite requirements may result in the student being dropped from or failed in a class without prior warning from the instructor.

Probation or Suspension

Students who do not make satisfactory academic progress may be excluded from further registration.

Class Attendance

Class attendance may be required and may be used for grade determination at the option of the instructor.

Graduation

In order to be eligible to graduate the student must have successfully completed his/her plan of study as established with the student's graduate advisor, his/her supervisory committee, and the Department Chairperson. This includes completion of all applicable coursework with at least a grade of 'B' or better and a final grade point average of at least 3.0. A student must also have submitted a complete master's thesis or report, 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 Courses: (21)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 5716</td>
<td>Productivity in Construction</td>
<td>3</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Quantitative Methods in Management</td>
<td>3</td>
</tr>
<tr>
<td>ECP 6705</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>Approved Graduate level Research</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARC 5916</td>
<td>Innovations in Building Technology</td>
<td>3</td>
</tr>
<tr>
<td>BCN 6642</td>
<td>Value Engineering in Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5784</td>
<td>Construction Information Services</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Refer to the Catalog section under College of Business Administration for course descriptions and prerequisites.

BCN 6971 | Thesis | 6 or

BCN 5905 | Independent Study (Research with Construction Application) | |

Directed Electives: (minimum 9 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 5755</td>
<td>Construction Accounting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>BCN 6785</td>
<td>Computer Estimating and Cost Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BCN 5771</td>
<td>Management and Marketing of Construction Services</td>
<td>3</td>
</tr>
<tr>
<td>BCN 6935</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

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 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 and BCN 4260.

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 common hazardous materials and waste regulations found in construction activities. Prerequisites: ARC 3463 and BCN 3762.

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 included are: company organization, incorporation structures, policies and procedures, finance, accounting, information modeling, bidding strategies, and operation. Prerequisite: BCN 3753 or BUL 4111 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 6786 Artificial Intelligence Applications in Construction Management (3). The course presents a study of the concepts, techniques, and applications of AI technology in the construction management domain. Prerequisites: COP 2172 and BCN 5784.

BCN 6916 Developments in Construction Technologies (3). Study of advanced field techniques and emerging
uses worldwide. Information flow and creativity are highlighted as crucial elements which stimulate new developments. This course prepares the students to understand and deal with concepts of change. Prerequisite: BCN 5716.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (3-6). Students develop a thesis under the direction of a senior faculty mentor and advance and defend their propositions before an audience of peers and scholars.

Landscape Architecture and Architectural Studies

Leonardo Alvarez, Assistant Professor and Chairperson

J. A. Bueno, Assistant Professor and Program Coordinator

Jaime Canaves, Associate Professor

Marta Canaves, Visiting Lecturer

Gisela Lopez-Mata, Assistant Professor

Jose Lozano, Assistant Professor

Iraj Majzub, Professor

The Department of Landscape Architecture and Architectural Studies is dedicated to advancing the professions of architecture, landscape architecture, and interior design. In keeping with the nature of these professions, the programs are taught in an interdisciplinary manner, taking full advantage of the resources and areas of expertise offered by each. The department offers two undergraduate programs, a Bachelor of Science in Architectural Technology and a Bachelor of Science in Interior Design, and one graduate program, a Master of Landscape Architecture.

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

Post-Professional Degree Option

Individuals with an undergraduate degree in architecture from an accredited professional program, or with a preprofessional undergraduate degree in architecture, landscape architecture, or environmental design may be granted advanced standing, not to exceed 30 credits for undergraduate courses with a grade of 3.0 or better on a 4.0 point scale.

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 envi-
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 5652 or equivalent.

LAA 5371 Computer Practices in Design I (3). Introduction to computer applications and to computer utilization in Landscape Architecture. Explore both the 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 Natural Landscape Systems (3). Environmental planning and landscape design issues will be related to an overview of basic ecosystems, plant materials and earth science concepts. Prerequisite: Departmental approval.

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 and urban design 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 6411 Tropical/Subtropical Landscape (3). In-depth study of tropical and subtropical landscapes. Topics to be covered include natural resource, unique climatic conditions, plant materials, natural processes, and the interaction of man with the environment. Prerequisite: LAA 5521.

LAA 6654 Landscape Architectural Design 2 (6). This course will focus upon housing issues as they relate to design. Project scale varies from single family homes to high density multi-family housing development of residential environments in urban and rural settings. Prerequisite: LAA 5653.

LAA 6655 Landscape Architectural Design 3 (6). This course will explore a range of land and site design problems at the planning and project scales. Emphasis will be on resolution of complex problems through analysis of natural, physical, and social factors. Prerequisites: LAA 6654 and LAA 6632.

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 6875 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 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 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.
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), Associate Research Scholar/Scientist and Director

Ronald D. Jones, Ph.D. (Oregon State University), Assistant Professor

Frances Parsons, Ph.D. (University of Miami), Associate Research Scholar/Scientist

Jose A. Amador, Ph.D. (Cornell University), Postdoctoral Research Associate

Laurie L. Richardson, Ph.D. (Oregon State University), Assistant Professor

Coordinators:

FEEDS (Florida Engineering Educational Delivery Systems) Osiris Villacampa

STAC (Southern Technology Application Center) Osiris Villacampa

Faculty

Adjouadi, Malek, Ph.D. (University of Florida), Assistant Professor, Electrical and Computer Engineering

Ahmad, Irshad, Ph.D., P.E. (University of Cincinnati), Assistant Professor, Construction Management

Alvarez, Leonardo, MLA, AIA, ASLA (Harvard University), Assistant Professor, Chairperson, Landscape Architecture and Architectural Studies

Andrian, Jean, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Auroles, Gabriel, Ed.D. (Florida Atlantic University), Associate Professor, Construction Management

Babić, Tadeusz, Ph.D. (Technical University, Wrocław, Poland), Associate Professor, Electrical and Computer Engineering

Barnes, Wilson C., M.Arch., A.I.A. (University of Pennsylvania), Assistant Professor and Coordinator, Construction Management, Broadrow

Bueno, J. A., MLA, ASLA, P.E. (Harvard University) Assistant Professor, Landscape Architecture and Coordinator, Graduate Program in Landscape Architecture

Canaves, Jaime, M.Arch., AIA (University of Florida), Associate Professor, Interior Design/Architectural Studies

Canaves, Marta, MLA (Florida International University), Visiting Lecturer, Landscape Architecture/Architectural Studies

Carrasco, Hector R., Ph.D., P.E. (Texas A&M), Assistant Professor, Industrial Systems and Engineering

Ceralio, Manuel R., D.Sc., P.E. (Universidad Central, MSEE (Georgia Institute of Technology), Professor, Electrical and Computer Engineering

Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Professor, Construction Management

Chelliah, S., Ph.D. (Purdue University), Assistant Professor, Mechanical Engineering

Chen, Chin Sheng, Ph.D. (Virginia Polytechnic Institute and State University), Associate Professor, Industrial Systems and Engineering

Cooper, William, Ph.D. (University of Miami), Director, Drinking Water Research Center

Dong, Zhifeng, Ph.D. (Xi'an Jiaotong University), Visiting Research Associate Professor, Mechanical Engineering

Ebadian, Mohammed A., Ph.D. (Louisiana State University), Professor and Chairman, Mechanical Engineering

Farmer, Eugene D., M.Arch., A.I.A. (University of Illinois), Assistant Professor, Construction Management

Fennema, Robert J., Ph.D. (Washington State University), Assistant Professor, Civil and Environmental Engineering

Greenfield, Jeffrey H., Ph.D. (University of Pittsburgh), Assistant Professor, Civil and Environmental Engineering

Grossbard, Judy, Ph.D. (Florida State University), Assistant Professor, Retailing and Apparel Studies

Hagmann, Mark J., Ph.D. (University of Utah), Associate Professor, Electrical and Computer Engineering

Heimer, Malcolm L., Ph.D. (Penn State University), Associate Professor, Electrical and Computer Engineering

Hopkins, Gordon R., Ph.D. (University of Alabama), Professor, Mechanical Engineering, and Dean, College of Engineering and Design

Hout-Cooper, Nell M., Ph.D. (Florida Atlantic University), Assistant Professor and Director, Computer Aided Engineering Center, and Information Systems and External Programs

Howard, Greta, M.Sc. (Florida International University), Lecturer, Retailing and Apparel Studies

Jiang, Wei, Ph.D. (University of Illinois), Visiting Assistant Professor, Mechanical Engineering

Jones, Ronald, Ph.D. (Oregon State University), Associate Professor, Drinking Water Research Center

Jones, William K., Ph.D. (Massachusetts Institute of Technology), Associate Professor, Mechanical Engineering / Electrical and Computer Engineering
Kengskool, Khokiat, Ph.D. (University of Missouri), Associate Professor, Industrial Systems and Engineering

Konarski III, John Ph.D. (Syracuse University), Chairperson and Assistant Professor, Retailing and Apparel Studies

Larkins, Grover L., Ph.D. (Case Western Reserve University), Assistant Professor, Electrical and Computer Engineering

Lee, Edward T., Ph.D. (University of California at Berkeley), Professor, Electrical and Computer Engineering

Lee, Shih-Ming, Ph.D. (Iowa State University), Associate Professor, Industrial Systems and Engineering

Leonard, Rene J., D.A., P.E. (University of Miami), Associate Professor, Mechanical Engineering

Levy, Cesar, Ph.D. (Stanford University), Associate Professor, Mechanical Engineering

Lopez-Mata, Gilseal, M.S. (Pratt Institute), Assistant Professor, Interior Design and Coordinator, Undergraduate Program in Interior Design

Lozano, Jose M., MArch, AIA (Kent State University), Assistant Professor, Interior Design/Architectural Studies

Lulu, Menberu, Ph.D. (University of Alabama), Associate Professor, Industrial Systems and Engineering

Malzub, Iraj E., D Arch, RA (University of Torino), Professor, Landscape Architecture and Architectural Studies

Martinez, Sergio DSc. (New York University), Associate Chairperson, Industrial Systems Engineering

Merkel, Robert S., Ph.D. (Institute of Textile Technology), Associate Professor, Retailing and Apparel Studies

Mitrani, José D., M.S., P.E., Engr. (University of Florida), Associate Professor and Chairperson, Construction Management

Mohammed, Osama A., Ph.D. (Virginia Polytech.), Professor, Electrical and Computer Engineering

Moradi, Ayman Ph.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Construction Management

Nunez, Garman, Ph.D. (Texas A&M University), Associate Professor, Industrial Systems and Engineering

Otazo, Julio O., M.A. Arch., R.A. (University of Florida), Assistant Professor, Construction Management

Park, Dong C., Ph.D. (University of Washington), Visiting Assistant Professor, Electrical and Computer Engineering

Pielot-Portar, Luis A., Ph.D., P.E. (Princeton University), Professor, Civil and Environmental Engineering

Radin, Ian, Ph.D. (University of Missouri), Visiting Associate Professor, Mechanical Engineering

Ray, Gautam, Ph.D. (Pennsylvania State University), Professor, Mechanical Engineering, and Associate Dean, School of Engineering

Richardson, Lauria, Ph.D. (University of Oregon), Assistant Professor, Drinking Water Research Center

Rog, Gustavo, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering, and Acting Associate Dean, School of Engineering

Rulz, Laura M.S. (Florida International University), Instructor and Advisor, Electrical and Computer Engineering

Schmidt, Pierre, Ph.D. (Pennsylvania State University), Professor, Electrical and Computer Engineering

Schoepf, Richard, Ph.D. (University of Iowa), Visiting Assistant Professor, Mechanical Engineering

Shen, Lon-Il D., Ph.D., P.E. (Clemson University), Associate Professor, Civil and Environmental Engineering

Shirazinedjad, Ebrahim, Ph.D. (Technical University of Clausthal, West Germany), Visiting Assistant Professor, Mechanical Engineering

Smith, Adele E., M.S. (Auburn University), Associate Dean, School of Design and Associate Professor, Retailing and Apparel Studies

Story, James R., Ph.D. (University of Alabama), Chairperson and Associate Professor, Electrical and Computer Engineering

Subbarao, Wunnava V., Ph.D., P.E. (Andhra University), Professor, Electrical and Computer Engineering

Surti, Vasanti H., Ph.D., P.E. (Catholic University of America), Professor, Civil and Environmental Engineering

Swift, Fredrick, Ph.D., P.E. (Oklahoma State University), Professor, Mechanical Engineering, Chairman and Professor, Industrial Systems and Engineering

Tall, Lambert, Ph.D., P.E. (Lehigh University), Professor, Civil and Environmental Engineering

Tansel, Berrin, Ph.D., P.E. (University of Wisconsin-Madison), Visiting Assistant Professor, Civil and Environmental Engineering

Tansel, Ibrahim, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Mechanical Engineering

Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor, Civil and Environmental Engineering

Tinoco, Fernando, Ph.D., (Iowa State University), Visiting Professor, Civil and Environmental Engineering

Ural, Oktay, Ph.D., P.E. (North Carolina State University), Director, International Institute for Housing and Buildings, Chairman and Professor, Civil and Environmental Engineering

Urban, Frank K., Ph.D., (University of Florida), Associate Professor, Electrical and Computer Engineering

Wang, Tong-Lo, Ph.D., P.E. (Illinois Institute of Technology), Assistant Professor, Civil and Environmental Engineering

Wu, Kuang-Hsi, Ph.D., P.E. (University of Illinois), Associate Professor, Mechanical Engineering

Yang, Gao, Ph.D. (The Catholic University of America), Visiting Assistant Professor, Mechanical Engineering

Yen, Kang K., Ph.D., (Vanderbilt University), Associate Professor, Electrical and Computer Engineering

Yih, Taching, Ph.D. (Catholic University of America) Assistant Professor, Mechanical 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

Evelyn B. Enrone, Assistant Professor
Susan P. Himburg, Associate Professor and Director, Coordinated Undergraduate Program
Michele W. Keane, Assistant Professor
Nancy S. Wellman, Associate 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 develop 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 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 to 5 students per year and requires a separate application available from the department. Application deadline is March 1 for Fall admission. Students who 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 Plan IV or V program and be admissible to the graduate program.

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.

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
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
DIE 6593 Special Topics in Dietetics 3
HUN 6521 Advanced Community Nutrition

HUN 6408 Advanced Life Cycle Nutrition

HUN 5123 Ethnic Foods and Nutrition

HUN 5611 Nutrition Education in the Community

HUN 5621 Food, Nutrition and Communication

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. Completion of ADA Plan IV (with two management courses) and permission of instructor.

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.

DIE 6257 Parenteral Nutrition (3). Clinical and metabolic advances in the parenteral feeding of the adult patient in relation to specific disease states.

DIE 6358 Advanced Techniques in Dietetic Practice (2). Techniques and approaches in changing nutritional behavior, tailoring private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4435L or equivalent. Corequisites: DIE 6368.

DIE 6368L Advanced Techniques Dietetic Practice Lab (1). Individual practice in conducting interviews, planning nutritional care, changing nutritional behavior, and providing dietetic consultation. Prerequisite: Permission of Instructor. Corequisites: DIE 6368.

DIE 6568 Research Methods in Dietetics (3). Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: Admission to graduate program and permission of instructor.

DIE 6578 Field Research Methods in Dietetics (2). Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches. Prerequisite: DIE 6568.

DIE 6906 Readings in Dietetics and Nutrition (1-3). Individual advanced study in a comprehensive overview of dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of instructor and advanced standing in graduate program.

DIE 6907 Individual Study In Dietetics (1-3). Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Chairperson of the Department.

DIE 6908 Supervised Field Study In Dietetics (3). Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by the student, developed with frequent consultation and supervision of instructor. Prerequisites: DIE 6578, 12 hours of graduate study, and permission of instructor.

DIE 6915 Supervised Research (1). Continuation of thesis or field research under thesis director or field study supervisor. Repeatable. Prerequisite: Completion of all other required coursework.

DIE 6935 Special Topics In Dietetics (3). In-depth study of historical, epidemiological, prevention, and treatment aspects of topics related to dietetics. Prerequisites: ADA Plan IV competence in topic covered, admission to graduate program.

DIE 6937 Graduate Seminar In Dietetics and Nutrition (1). Presentations by researchers, practitioners, and graduate majors on 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.

HUN 5123 Ethnic Influences on Nutrition and Food Habits (3). Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

HUN 5195 International Nutrition: Problems, Policies, and Planning (3). Advanced study of magnitude, causes and nature of undernutrition in low income countries; emphasis on programs, planning and policies directed toward alleviating hunger. Prerequisite: Permission of instructor.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with em-
phasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: ADA Plan IV and 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 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 6248 Sports Nutrition (3). The relationship between nutrition, fitness and athletic performance for trained and untrained athletes will be examined.

HUN 6254 Drug and Nutrient Interaction (3). The interaction of drug and nutrient metabolism in relation to nutrition.

HUN 6335 Functions of Vitamins (3). Integration of chemical, biological and physiological functions of vitamins as related to human nutrition.

HUN 6355 Minerals in Human Nutrition (3). The physiological and metabolic functions of selected macro- and trace minerals as they relate to nutritional status in humans.

HUN 6408 Advanced Life Cycle Nutrition (3). In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisite: HUN 4241 or equivalent.

HUN 6521 Advanced Community Nutrition (3). In-depth study of assessment of nutrition in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and dietary care. Prerequisite: DIE 3317 or equivalent.

HUN 6811 Laboratory Research Methods in Dietetics (2). Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of department chairperson.

Medical Laboratory Sciences

Janet A. Lineback, Associate Professor and Chairperson
Barbara V. Anderson, Assistant Professor and Director, Medical Technology Program
Jerry A. Bash, Associate Professor
Manoucher Dezfulian, Associate Professor
William J. Keppler, Professor and Dean
Patrick F. Shen, Associate Professor
Sylvia L. Smith, Associate Professor
Beverly A. Warden, Assistant Professor

Master of Science in Medical Laboratory Sciences

Admission to the Master of Science degree program in Medical Laboratory Sciences represents a judgment as to the probability of the student's success in graduate work. This judgment is usually based on a variety of factors including the student's undergraduate academic record, specific admission test scores, letters of recommendation, and letter of intent. To be admitted, a student must meet the following minimum requirements:

1. Satisfactorily meet the University's general requirements for admission. (Consult the General Information section for details.)

2. Hold a bachelor's degree, or equivalent, in medical technology or related scientific discipline from an accredited institution. 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 12 semester hours of undergraduate clinical coursework in one of the specialty areas is also required for individuals who do not possess a bachelor's degree in medical technology or equivalent clinical experience. An applicant lacking in course background may be admitted with deficiencies on condition that these deficiencies be made up within one year of the date of admission. Credits earned in making up these deficiencies will not count toward the graduate degree.

3. Have a minimum cumulative GPA of 3.0 during the last two years of the undergraduate program or a minimum combined score of 1000 on the quantitative and verbal portions of the Graduate Record Examination (GRE) (or a minimum combined score of 1500 on the three-part GRE).

4. Submit at least two letters of recommendation from academic professors, supervisors/employers and/or professional associates who are in a position to comment on the applicant's potential for graduate work.

5. Submit an autobiographical statement or letter of intent (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 37 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.

Core Courses

12

Electives

9

Graduate Seminars

6

Thesis

6

Core Courses

MLS 5175 Advanced Clinical Pathology

3

MLS 5515 Advanced Diagnostic Immunology

3

MLS 5615 Research Instrumentation and Techniques in Medical Laboratory Sciences

3

MLS 5785 Research Methods in Medical Laboratory Sciences

3

Specialty Courses:

Clinical Chemistry

MLS 6645 Advanced Clinical Analytical Systems

3

MLS 6665 Clinical Endocrinology

3

MLS 5675 Clinical Protein Chemistry

3

MLS 5685 Therapeutic Drug Monitoring and Clinical Toxicology

3
**Specialty Courses:**

**Hematology**
- MLS 5328 Diagnostic Hematological Cytology and Cytchemistry 3
- MLS 6329 Hematological Oncology 3
- MLS 5345 Advanced Hematology/ Hemostasis 3

**Specialty Courses:**

**Immunohematology**
- MLS 6575 Advanced Blood Banking 3
- MLS 6595 Advanced Immunohematology 3
- MLS 5590 Human Blood Group Systems 3
- MLS 6944, 6945, 6946 Advanced Blood Banking Practicum I, II, III 3
- MLS 5585 Human Histocompatibility Antigens 3

**Specialty Courses:**

**Clinical Immunology**
- MLS 6180 Immunopathology 3

**Specialty Courses:**

**Clinical Microbiology**
- MLS 6425 Advanced Clinical Mycology 3
- MLS 6468 Molecular Mechanisms of Infectious Diseases 3
- MLS 5475 Medical Virology 3

**Electives**
In consultation with the advisor, the student may select a maximum of six credits outside the Department of Medical Laboratory Sciences which are not limited to but may include courses in biological sciences, chemistry, health care administration, educational methodology, computer sciences, and business administration.

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### 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/Cytchemistry (3).** Morphological, cytochemical, cytogentic, 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.


**Prerequisite:** Graduate standing or permission of instructor.

**MLS 545 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 disease outbreaks.

**Prerequisite:** Graduate standing or permission of instructor.

**MLS 5455 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 disease outbreaks.

**Prerequisite:** Graduate standing or permission of instructor.

**MLS 5475 Medical Virology (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 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 5586 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 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 5655 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 5675 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 5695 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 6910L Directed Independent Research (1-6). Investigation of a problem in the area of medical laboratory sciences requiring independent research at the graduate level. Supervision by graduate faculty. Prerequisite: Permission of advisor/instructor.

MLS 6938 Graduate Seminar (1). Oral presentation of literature review or research. Prerequisite: Graduate standing or permission of instructor.

MLS 6939 Advanced Topics in Medical Laboratory Sciences (3). Current topics in medical laboratory sciences not otherwise covered in the curriculum. Review of literature and discussion of the selected topics. May be repeated for credit with different subject content. Prerequisite: Graduate standing or permission of professor.

MLS 6944 Advanced Blood Banking Practicum I (3). A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

MLS 6945 Advanced Blood Banking Practicum II (3). A laboratory course providing in-depth practical experience in the various aspects of Blood Banking in a community blood center and hospital transfusion service. Prerequisite: Graduate standing or permission of instructor.

Occupational Therapy

Gail Hills Maguire, Professor and Chairperson
Reba L. Anderson, Associate Professor
Susanne D'Agati, Assistant Professor
Anne Dickerson, Assistant Professor
Susan Kaplan, Associate Professor
Suze Dudley, Assistant Professor
Patricia Michael, Assistant Professor
Pamela Shaffner, Assistant Professor

Master of Science in Occupational Therapy

The curriculum is composed of three main components: a core of occupational therapy courses to increase understanding of the theoretical bases and current issues of occupational therapy practice; a research core to develop critical problem solving, research, and writing skills; and a clinical specialty component that students design with approval of faculty. In the clinical specialty area, students have the opportunity to take four elective courses and develop projects and papers in addition to their theses 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.

3. Have a minimum of a 3.0 GPA average based on a 4.0 scale (upper division) or a combined score of 1000 (verbal and quantitative parts) on the Graduate Record Examination (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).

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.

Required Courses: (36)

Occupational Therapy Core

OTH 6009 Current Issues and Theories of Occupational Therapy 3

OTH 6255 Measurement and Assessment in Occupational Therapy 3

OTH 6215 Advanced Occupational Therapy Intervention Strategies 3

OTH 6948 Continuing Clinical Competence for Occupational Therapists 3

Research Core

STA 6167 Statistical Methods in Research II 3

OTH 5760 Current Research in Occupational Therapy 3

OTH 6970 Master's Thesis 6
Clinical Specialty Component
Combination of occupational therapy and university electives in an identified area of clinical interest approved by the faculty

Professional Certificate in Occupational Therapy
The certificate curriculum will enable students who do not have a bachelor's degree in Occupational Therapy 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. (For information on the program requirements, refer to the certificate section at the end of the College of Health listing.

Course Descriptions
Definition of Prefix
OTH - Occupational Therapy

OTH 5011 Theories and Practice of Occupational Theory (3). The theoretical foundations of occupational therapy and issues affecting profession practice.

OTH 5162 Adaptation of Human Occupation (3). Through development of an understanding of the components and nuances of human occupation, students will develop skills needed to promote optimal performance through simulation and adaptation of life tasks.

OTH 5174 Advanced OT Techniques In Upper Limb Prosthetics and Orthotics (3). Clinical OT techniques and pathomechanics applied to upper limb dysfunction including utilization of biofeedback and myoelectric components. Prerequisites: OTH 4421 and OTH 4170.

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation of client's workplace for the disabled. Prerequisite: Admission to program or permission of instructor.

OTH 5326 Psychiatric O.T.: Contemporary Theory and Practice (3). Examination of contemporary knowledge relevant to the theory and practice of O.T. in psychiatry. Prerequisite: Admission to Program or permission of Instructor.

OTH 5340 Occupational Therapy Program Development In Psychiatry (3). Seminar discussion and practical experience in occupational therapy programming in psychiatry.

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 5405 Analysis of Therapeutic Procedures In Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theoretical based assessment problem identification and treatment for the physically disabled adult.

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to 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 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 Speciality (3). Participation in ongoing research of faculty members in clinical speciality area. Prerequisite: Permission of Instructor.

OTH 5905 Independent Study (Variable Credit).

OTH 5934 Evaluation and Treatment of Hand Dysfunction (3). Seminar in current issues related to the assessment and treatment of common injuries of the hand. Prerequisites: OTH 3413/3413L, OTH 4421 or equivalent.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program.

OTH 6255 Measurement and Assessment In Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisite: Admission to program or permission of instructor.

OTH 6507 Occupational Therapy for Occupationally Dysfunctional Children & Adolescents. Exploration of factors leading to successful adaptation to occupational roles, are explored with particular emphasis on the relationship between these factors and Occupational Therapy theory. Prerequisite: Permission of instructor.

OTH 6538 Advanced Methods In Pediatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 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 (3). Supervised research on a research project submitted in partial fulfillment of Master's degree requirement. Prerequisite: Permission of major professor.
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 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 (15 semester hours); Supervised Field Experience or Research Project (3 semester hours); Concentration Core (18 semester hours); General Electives (9 semester hours).

General Core Courses: (15)

HSA 6405 Behavioral Aspects of Health and Practice 3
HSC 5506 Epidemiology and Research Methods for Public Health 3

Concentration Electives: (9)

Select at least three courses from the following list:

HSC 5515 Statistical Research Methods for Health Services 3
PHC 6315 Public Health and Environmental Management 3
PHC 6500 Foundations of Public Health Practice 3

Environmental Health Concentration

( 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 6501 Health Promotion Communication Theory and Design 3

Concentration Electives: (9)

Select at least three courses from the following list:

EES 5506 Occupational Health 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 6004 Injury Epidemiology and Prevention 3
PHC 6150 Public Health Policy Analysis and Formulation 3

General Electives: (6)

Environmental Health Science Option

Required Courses: (9 semester hours)

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

Concentration Electives: (9)

Select at least three courses from the following list:

ENV 5062 Environmental Health 3

Graduate Catalog
College Health

Environmental Health (3)

EVS 5421 Industrial and Environmental Toxicology 3

General Electives: (9)

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 940-5877.

Health Promotion Concentration

Required Courses: (12)

PHC 6501 Health Promotion Communication Theory and Design 3

PHC 6503 Community Organization for Health Promotion 3

PHC 6580 Contemporary Issues in Health Promotion 3

PHC 6750 Program Development and Evaluation in Health Promotion 3

Concentration Electives: (6)

Select two courses from the following list:

PHC 6016 Social Epidemiology, Health Promotion and Policy 3

PHC 6112 Health Risk Appraisal 3

PHC 6150 Public Health Policy Analysis and Formulation 3

PHC 6311 Environmental Health Risk Assessment 3

PHC 6502 Health Promotion in the Workplace 3

PHC 6530 Principles of Maternal and Child Health 3

PHC 6585 Health Promotion in the Clinical Settings 3

General Electives: (9)

Public Health Policy and Administration Concentration

Emphasis is on Health Policy Analysis and Ambulatory Care Administration.

Required Courses: (12 semester hours)

PHC 6150 Public Health Policy Analysis and Formulation 3

HSA 6155 Health Care Policy and Economics 3

HSA 6175 Financial Management of Health Systems 3

HSA 6149 Strategic Planning and Marketing of Health Services 3

Concentration Electives: (6)

Select two courses from the following list:

HSA 5408 Health Services Consumer Behavior 3

HSA 5225 Long Term Care Administration 3

HSA 6187 Personnel Management and Labor Relations 3

PHC 6112 Health Risk Appraisal 3

PHC 6425 Legal and Regulatory Aspects of Environmental Health 3

PHC 6503 Community Organization for Health Promotion 3

PHC 6530 Principles of Maternal and Child Health 3

General Electives: (9)

Course Descriptions

Definition of Prefix

PHC - Public Health

PHC 6004 Injury Epidemiology and Prevention (3). Analyzes the impact and extent of injuries as a public health problem. Issues of prevention, sources of data, environment, social and occupational aspects are included in an epidemiological approach. Prerequisite: HSC 5506.

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: HSC 5506.

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: Biostatistics & Epidemiology.

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 6311 Environmental Health Risk Assessment (3). This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach.

PHC 6315 Public Health and Environmental Management (3). An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and surveillance responsibilities authorized in the public sector. Prerequisite: PHC 6500 or permission of instructor.

PHC 6425 Legal and Regulatory Aspects of Environmental Health (3). The application of law as it relates to the environment and human health. Legal process and rule-making; cost-benefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: Epidemiology and Biostatistics.

PHC 6500 Foundations of Public Health Practice (3). Philosophy, nature, and scope of public health; organization and administration; principles of disease prevention and health promotion; current issues and trends; socioeconomic and political forces. Prerequisite: Public Health major or permission of instructor.

PHC 6501 Health Promotion Communication Theory and Design (3). Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisite: Health Promotion Concentration or by permission of instructor.

PHC 6502 Health Promotion In the Workplace (3). Emphasis is on program design, management, and evaluation of health promotion in industry. Current issues on health assessment, illness, 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 organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or permission of instructor.

PHC 6530 Principles of Maternal and Child Health (3). Covers the scope of the field of maternal and child health with emphasis on the needs of infants, children, youth, women and families in the reproductive cycle and programs designed to meet these needs. Prerequisite: Public Health major or permission of instructor.

PHC 6580 Contemporary Issues in Health Promotion (3). Current problems and findings in health promotion content areas as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: Epidemiology and Biostatistics.

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: Epidemiology and Biostatistics.

PHC 6750 Program Development and Evaluation In Health Promotion (3). Principles and procedures in health promotion program development and evaluation. Emphasis on needs assessment, planning models, evaluation designs, data collection, analysis and reporting. Prerequisites: Epidemiology and Biostatistics.

Physical Therapy

Awilda R. Haskins, Assistant Professor and Chairperson
Burton J. Duvevitz, Associate Professor
Leonard Elbaum, Associate Professor
Jennifer Lander, Assistant Professor and Coordinator of Graduate Program
Elizabeth Revelle, Associate Professor
Colleen Rose-St. Pirk, 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 candidate'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 ther-
Physical Therapy Courses

Approved Physical Therapy course 15

Research Component

STA 5126 Fundamentals of Design of Experiments 3
STA 6166 Statistical Methods in Research I 3
PHT 6915 Advanced Physical Therapy Clinical Research Methodologies and Design 3
PHT 6971 Master's Thesis 6

Electives

Approved out-of-department graduate level electives 6
Approved out-of-department graduate level research course 3

Course Descriptions

Definition of Prefixes

PHT - Physical Therapy

PHT 5045 Teaching Physical Therapy Treatment Programs (3). Lectures and projects to plan in-service programs, prepare written instructions, and teach other staff and families about P.T. programs in Spanish and English.

PHT 5320 Evaluating and Treating Handicapped Children (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 5515 Managing Therapy Services for Handicapped Children (3). Lectures and group work to develop consulting and management skills of therapists who provide services to handicapped children. Prerequisites: 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 neurological system, or both. Prerequisite: Permission of major advisor.

PHT 6165 Applied Clinical Neuroanatomy (3). Examines correlation of sites of pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of treatment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6238 Motor Development: Adult Through Geriatrics (3). A study of motor development of the adult through old age. Application of developmental principles to physical therapy practice and research. Prerequisite: Permission of major advisor.

PHT 6239 Developmental Disabilities in Adulthood (3). A study of adults with developmental disabilities; including aspects of societal perspectives, political and public policy regarding the handicapped, and current theories in treatment of the handicapped adult population. Prerequisite: Permission of major advisor and instructor.

PHT 6255 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 6365 Theories in Sports Physical Therapy (3). Study and exploration of relevant issues in sports physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines current theories in neurorehabilitation as they pertain to physical therapy evaluation and treatment. 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 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 program. Prerequisite: Permission of major advisor.

College of Health

Dean
William J. Keppler

Associate Dean
Sylvia Smith

Chairpersons and Directors:

Dietetics and Nutrition
Katharine R. Curry

Medical Laboratory Sciences
Janet A. Lineback

Medical Record Administration
Elizabeth M. Johnson

Occupational Therapy
Gail H. Maguire

Physical Therapy
Awilda R. Haskins

Prosthetics and Orthotics
Ronald W. Splers

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

Bash, Jerry A., Ph.D., M.T. (ASCP), (State University of New York at Buffalo), Associate Professor, Medical Laboratory Sciences

Curry, Katharine R., Ph.D., R.D., L.D., (Southern Illinois University), Professor, Chairperson Dietetics and Nutrition

Dezfulian, Manoucher, Ph.D. M. (ASCP) (University of California), Associate Professor, Medical Laboratory Sciences

Dickerson, Anne, M.S., O.T.R./L. (Southwest Texas State University), Assistant Professor, Occupational Therapy

Dudley, Suze, M.S., O.T.R./L. (Florida International University), Assistant Professor, Occupational Therapy

Dunevitz, 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

Eibaum, Leonard, M.M., P.T. (University of Miami), Associate Professor, Physical Therapy

Enrione, Evelyn, Ph.D., R.D. (Purdue University), Assistant Professor, Dietetics and Nutrition

Fisher, Karen, B.S., P.T. (F.I.U.), Instructor, Physical Therapy

Haskins, Awilda R., M.S., P.T. (State University of New York at Buffalo), Assistant Professor and Chairperson, Physical Therapy

Himburg, Susan P., Ph.D., R.D. (University of Miami), Associate Professor, Dietetics and Nutrition

Johnson, Elizabeth M., B.S., RRA (Florida International University), Assistant Professor and Director, Medical Record Administration

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, RRA, (Florida International University), Clinical Coordinator, Medical Record Administration

Kogler, Geza, B.F.A.C.O. (Wayne State University), Instructor, Prosthetics and Orthotics

Lander, Jennifer, Ed.D., P.T. (Nova University), Assistant Professor, Physical Therapy

Lineback, Janet A., Ph.D., M.T. (ASCP) (University of Miami), Professor and Chairperson, Medical Laboratory Sciences

Maguire, Gail 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, Public Health

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

Revel, Elizabeth O., Ed.D., P.T. (Nova University), Associate Professor, Physical Therapy

Rose-St. Prix, Colleen MHSA, P.T. (F.I.U.), Assistant Professor, Physical Therapy

Shaffer, Pamela K., M.S., O.T.R.L. (Nova University), Assistant Professor, Occupational Therapy

Shen, Patrick F., Ph.D., M.T. (ASCP) (University of Arkansas), Associate Professor, Medical Laboratory Sciences

Smith, Sylvia L., Ph.D., S.M. (AAM, ASCP) (University of Miami), Associate Professor, Medical Laboratory Sciences

Spliers, 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

Wellman, Nancy S., Ph.D., R.D. (University of Miami), Associate 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 Associate Professor
Lee C. Dickson, Assistant Dean and Associate Professor
Ello Bellucci, Associate Professor
M. Chase Burritt, Visiting Assistant Professor
Patrick J. Cassidy, Lecturer
Perceval Darby, Assistant Professor
Patricia Deveau, Assistant Professor
Peter Goffe, Associate Professor
Joseph B. Gregg, Associate Professor
David Grier, Instructor
Fritz G. Hagenmeyer, Associate Professor
Albert J. Halebian, Associate Professor
William M. Hansen, Adjunct Lecturer
William Hebrank, Adjunct Lecturer
Michael E. Hurst, Professor
Richard A. Huse, Associate Professor
Charles L. Ilvento, Associate Professor
Lendal Kotschevar, Professor
Steven V. Moll, Associate Professor
Elsa Moncarz, Associate Professor
Michael J. Moran, Lecturer
William J. Morgan, Jr., Professor
William O'Brien, Associate Professor
Alan J. Parker, Professor
Barry L. Perl, Adjunct Lecturer
Nestor Portocarrero, Associate Professor
Roger Probst, Lecturer
Joan S. Remington, Visiting Adjunct Lecturer
Norman H. Ringstrom, Professor
Kevin Robson, Associate Professor
William Stanford, Lecturer
David M. Talty, Visiting Assistant Professor
Mary L. Tanke, Associate Professor
Andrew N. Vladimir, Assistant 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 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 Graduate Record Examination 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 Graduate Record Examination or an equivalent aptitude test. A minimum score of 450 on the GMAT is required for international applicants.

Applicants who meet admission criteria but do not have undergraduate preparation in Hospitality Management must complete a series of undergraduate preparatory courses. Specific courses will depend upon the individual's undergraduate preparation. Twenty-four credit hours of preparatory courses normally will be required. A maximum of six semester hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

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

Core Courses: (39 semester hours)

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 Information Systems 3
HFT 6477 Financial Management for the Hospitality Industry 3
HFT 6556 Research and Statistical Methods 3
HFT 6697 Hospitality Law Seminar 3
HFT 6946 Graduate Internship 3
Electives: (5000 and 6000 level) 12

In place of the three following courses - HFT 5227, HFT 5476 (or HFT 5478), HFT 6227 and one elective, the student may choose to complete HFT 6916 Hospitality Industry Project which carries a nine credit hour requirement.

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 5361 Advanced Food Service Operation (3). A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to profitable food service operations.

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 6355 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 electrophysical design factors are stressed, with particular emphasis on efficiency and space utilization. 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 4474. (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 4474. (F,S)

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(F,S,SS)

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 3722 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 Resources Management for the Hospitality Industry (3). A study of personnel and consumer relations in the hospitality industry within a multicultural, multiracial, and multiethnic society through an examination of value systems and cultural characteristics. Prerequisite: HFT 4224 or equivalent. (F,S)

HFT 6226 Motivation and Leadership (3). Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

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. (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. (S)

HFT 6266 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 6447 Hotel Information Systems (3). A seminar on computer systems and their applications within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined, from reservations to the back office through a series of assignments and projects. Prerequisites: HFT 3423 or HFT 6446 and permission of instructor. (F,S,SS)

HFT 6448 Hospitality Industry Organizational Information Systems (3). An introduction to the general concepts and equipment that support information management by computer within the Hospitality Industry. Data file handling and other information management techniques are stressed. Students are first required to write application programs, then to complete a series of assignments utilizing application programs relating to guest cycle management on the school's computerized property management system. (F,S,SS)

HFT 6455 Operations Control (3). Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotel or restaurant enterprises.

HFT 6477 Financial Management for the Hospitality Industry (3). A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate, and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations, and current financial issues in the hospitality industry. Prerequisite: HFT 6446. (F,S,SS)

HFT 6486 Investment Analysis for the Hospitality Industry (3). Advanced investment methods and opportunities with emphasis on securities of the hospi-
School of Hospitality Management

Dean
Anthony G. Marshall
Rocco M. Angelo
Lee C. Dickson

Faculty
Angelo, Rocco M., M.B.A. (University of Miami), Associate Professor, Management and Associate Dean
Bellucci, Elio J. D. (Boston College), Associate Professor, Law
Burritt, M. Chase, B.S. (Cornell University), Visiting Assistant Professor, Management
Cassidy, Patrick, B.S. (Florida International University), Visiting Lecturer, Wine Technology
Darby, Percival, M.S. (Florida International University), Assistant Professor, Management
Deveau, Patricia M., M.S. (University of New Haven), Assistant Professor, Information Systems Management
Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management and Marketing and Assistant Dean
Goffe, Peter, J.D. (University of Miami), Associate Professor, Marketing
Gregg, Joseph B., Ed.D (Nova University), Associate Professor, Management and Marketing
Grier, David, Instructor, Beverage Management
Hagenmeyer, Fritz, G., M.A. (Cornell University), Associate Professor, Hotel Engineering
Halebian, Albert J. B.S. C.P.A. (Cornell University), Associate Professor, Accounting and Finance
Hansen, William M., M.S. (Florida International University), Adjunct Lecturer, Food Management
Hebrank, William B. (University of Illinois) Adjunct Lecturer, Wine Technology
Hurst, Michael E., M.A. (Michigan State University), Professor, Management
Huse, Richard A., M.S. (Niagara University), Associate Professor, Tourism
Ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Associate Professor, Accounting and Finance
Kotschevar, Lendal, Ph.D. (Columbia University), Professor, Management
Marshall, Anthony G., J.D. (Syracuse University), Professor, Law and Dean
Moli, Steven V., M.S. (Florida International University), Associate Professor, Accounting and Information Systems Management

Moncarz, Elisa, B.B.A., C.P.A. (Bernard/Baruch College, City U. of New York), Associate Professor, Accounting and Finance
Moran, Michael J., B.S. (Florida International University), Lecturer, Food Management
Morgan, William J., Jr., Ph.D. (Cornell University), Professor, Management
O'Brien, William M., M.S. (Florida International University), Associate Professor, Information Systems Management
Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management
Perl, Barry L., M.S., C.P.A. (Florida International University) Adjunct Lecturer, Accounting and Finance
Portocarrero, Nestor, B.B.A. C.P.A. (University of Miami), Associate Professor, Accounting and Finance
Probst, Roger, B.S. (University of New Haven), Lecturer, Food Management
Remington, Joan S., J.D. (Williamette College), Adjunct Lecturer, Management and Marketing
Ringstrom, Norman H., Ph.D. (State University of Iowa), Professor, Management
Robson, Kevin, M.S. (Florida International University), Associate Professor, Food Management
Stanford, William, Lecturer, Food Management
Tally, David M., B.S. (Florida State University), Visiting Assistant Professor, Management
Tanke, Mary L., Ph.D. (Purdue University), Associate Professor, Management
Vladmir, Andrew, M.S. (Florida International University), Visiting Assistant Professor, Management
Warner, Mckay, Ed.D. (Florida International University), Associate Professor, Food Management
White, Theodore, B.S. (Florida International University), Lecturer, Club Management

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, SS)

HFT 6586 Research and Statistical Methods (3). A study of basic research methodology as applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation, and methods of reporting are considered. (F)

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator.

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 3686 (F, S, SS)

HFT 6697 Hospitality Law Seminar (3). New laws and their impact on the hospitality industry are examined. Students research and publish 'industry alert bulletins,' explaining the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603 or equivalent. (F, S, SS)

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, SS)

HFT 6946 Graduate Internship (3). Structured graduate management experience in a specialized career in the hospitality industry. Programs include: food and beverage management, room division management, sales management, in-flight catering management, fast food service management, and restaurant management. Prerequisite: Permission of the instructor. (F, S, SS)
School of Public Affairs and Services

The School of Public Affairs and Services, which was established in 1978, 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 in Public Administration, and a Ph.D. in Social Welfare is being planned.

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.

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, or 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. Continued contact (at least once a semester) with the academic advisor is urged to review progress and select courses for each succeeding semester. Such contact is required until an approved program of study is completed.

Degree Requirements

To be eligible for a master's degree within the 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 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.
Criminal Justice

Ray Surette, Associate Professor and Acting Director
Robert Clark, Professor
Jose Marques, Associate Professor
Lulu Sala, Professor
Regina Shearn, Associate Professor
Robert Snow, Associate Professor
W. Clinton Terry, Associate Professor
James Vardals, Visiting Assistant 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 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 semester hours)

CCJ 5288 Legal Issues for Criminal Justice Administrators 3
CCJ 6025 Theory in Administration of Justice 3
CCJ 5105 Police Organization, Behavior, and Administration 3
CCJ 5285 Judicial Process and Policy 3
CCJ 5445 Corrections and Correctional Management 3
CCJ 6705 Advanced Research Methods 3

Electives: (18 semester hours)

CCJ 5056 History and Philosophy of Criminal Justice 3
CCJ 5216 Criminal Law 3
CCJ 5235 Criminal Procedure 3
CCJ 5286 Comparative Law 3
CCJ 5387 Legal Aspects of Corrections 3
CCJ 5525 Seminar in Juvenile Delinquency 3
CCJ 5605 Deviance and Social Control 3
CCJ 5669 Minorities in Justice Administration 3
CCJ 5935 Special Topics 3
CCJ 6456 Administration and Management of CCJ Agencies 3

CCJ 6477 Seminar in Information Systems 3
CCJ 6665 Victimology and Criminal Justice System 3
CCJ 6706 Applied Statistical Techniques for CCJ 3
CCJ 6716 Planning and Program Evaluation 3
CCJ 6915 Directed Individual Graduate Study in Criminal Justice 3
CCJ 6945 Field Research in CCJ 3
CCJ 6971 Thesis Research Prospectus 5
CCJ 6976 Masters Thesis Defense 4

Additional Procedures

Thesis track students will select a committee of three graduate faculty members, the student's major faculty advisor being a member and chairperson of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the master's program. Admission to the program should not be construed as admission to candidacy for a degree. Students may apply for candidacy upon completion of 15 semester hours. Admission to candidacy should be completed before the student enrolls for the last 12 hours.

Graduation Requirements

To receive the master's degree in criminal justice, a student must satisfy all university regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the six core courses, four electives, and the two thesis courses. The student may be required to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the six core courses and six electives. A minimum GPA of 3.0 is required.

Course Descriptions

Definition of Prefixes

CCJ-Criminology and Criminal Justice.
CCJ 5056 History and Philosophy of Criminal Justice (3). The historical and philosophical background of criminal justice is presented as a basis for a more analytical understanding of the problems and prospects of criminal justice organization, management, and behavior.
CCJ 5105 Police Organization, Behavior, and Administration (3). Analysis of the organization and administration of police departments and their effects on police behavior.
CCJ 5216 Criminal Law (3). A concentrated study of the substantive criminal law based upon concepts, statutes, and cases that are enforced in state and federal courts.

CCJ 5235 Criminal Procedure (3). A case study of major legal cases dealing with criminal procedure in the United States.

CCJ 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 rehabilitation of the offender.

CCJ 5288 Legal Issues for Criminal Justice Administration (3). The course will focus on a basic understanding of administrative law and procedures in the American system. Topics will include the methods and limitations of the administrative process as it is developing in the American legal system.

CCJ 5347 Correctional Intervention Strategies (3). An overview and critical assessment of treatment and rehabilitation programs in corrections, including prisons, probation and parole, halfway houses, and pre-trial programs. Relevant research will be reviewed.

CCJ 5445 Corrections and Correctional Management (3). The course focuses on current critical issues and problems in the management of adjudicated offenders in correctional systems. The organization and administration of community and institutional corrections agencies will be reviewed and their performance analyzed.

CCJ 5525 Seminar in Juvenile Delinquency (3). Focuses on the nature, scope and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, delinquency, and family law.

CCJ 5605 Deviance and Social Control (3). This course will cover the major theoretical issues and ideas concerning deviant and criminal behavior and methods of socially controlling these behaviors.

CCJ 5669 Minorities in Justice Administration (3). Focuses upon the disparity in outcomes for minority groups (i.e., racial/ethnic/sexual) across the criminal justice system, and on alternative explanations for those differences in outcomes. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

CCJ 5935 Special Topics (3). An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethics, terrorism, sentencing, information systems, and other topics based on student interest or current concern. May be repeated. Prerequisite: Graduate Standing.

CCJ 6025 Theory in Administration of Justice (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6456 Administration and Management of Criminal Justice Agencies (3). An examination of the criminal justice system from the 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.

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship of victims and offenders and the manner in which the criminal justice system responds to victims of crime.

CCJ 6705 Advanced Research Methods (3). Emphasis is placed on the design of research projects, the analysis of research data, and the utilization of research within the criminal justice system.

CCJ 6706 Applied Statistical Techniques for Criminal Justice (3). Statistical tools applicable to criminal justice research are examined. Emphasis is on developing an understanding of the various techniques and their applications.

The use of computerized statistical packages will be presented. Prerequisites: STA 3122 and STA 3123, or permission of instructor.

CCJ 6716 Planning and Program Evaluation (3). A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation.

CCJ 6915 Directed Individual Graduate Study in Criminal Justice (3). Students can select a particular aspect of criminal justice for in-depth independent study with a criminal justice faculty. Prerequisite: Graduate standing.

CCJ 6945 Field Experience in Criminal Justice (3). A course designed to provide selected students an opportunity to engage in action-oriented research within a criminal justice agency on a designated research project.

CCJ 6971 Thesis Research (3). This course is devoted to the actual research labor required for a thesis in the Masters program.

CCJ 6976 Masters Thesis Defense (3). This course is devoted to the effort required to prepare the thesis document.

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Health Services Administration

David Bergwall, Associate Professor and Director
Melissa Aherm, Assistant Professor
Fred Becker, Associate Professor
Gloria Decard, Assistant Professor
Thomas Dunaye, Professor and Associate Dean
Burton Dunlop, Associate Professor
Rosebud Foster, Professor
Charles Frankenhoft, Senior Lecturer
Frederick Newman, Professor
Martha Pelaez, Senior Lecturer
Max Rothman, Senior Lecturer
Kris Siddharthan, Assistant Professor
Vandor White, Professor

The Department of Health Services Administration offers graduate and undergraduate studies leading to Bachelors and Masters degrees in Health Services Administration.

The management of health services occurs in an environment of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional
growth. Many of the same skills needed for executive management are now also required to provide administrative leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

The graduate program provides professional education to train management executives for administration of complex health care organizations in governmental and private settings.

The Master of Health Services Administration (MHSA) provides professional education for entry management careers in health services delivery organizations. The degree addresses the theories and issues of managing complex organizations in both public and private settings. The program is organized to meet the needs of the working student. Many individuals enrolled are already employed in administrative roles in the field. While enhancing their career, they bring the wealth of their experience to the classroom.

The Master’s program is designed so that full-time students may complete all course work in five semesters. The same curriculum can be completed by part-time students within three years. Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytical 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, prepaid health plans, mental health programs, multi-institution corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervise field experiences and a ‘practical laboratory’ for operational research in health 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 programs 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. The GRE or GMAT must have been taken with five years of application to the program.

4. Foreign students must obtain a minimum score of 500 on the TOEFL examination.

5. Prerequisites for admission include coursework in accounting, statistics and micro-economics with a grade equivalent of ‘C’ or higher. Entering students are expected to possess basic microcomputer skills including word processing and spreadsheet applications. Students who do not have these skills or prerequisites may complete these requirements in their first semester of study.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors including compatibility of the applicant’s career goals with the program 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 admission 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: (51)

Core Courses required of all students: (45)

Group I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5125</td>
<td>Introduction to Health Services</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6415</td>
<td>Managerial Applications of Social Determine of Health</td>
<td>3</td>
</tr>
</tbody>
</table>
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 Advances 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 5454** Ethical Decision Making in Health Administration 3

**HSA 5876** 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 5876** Administrative Residency in Nursing Home Settings 6

**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 institution organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 5226

**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. Prerequisites: HSA 3180, HSA 4110 or HSA 6185.

**HSA 5227 Applied Management In Long Term Care** (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care giving in nursing homes. Prerequisite: HSA 5226. Corequisite: HSA 5225.

**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 5816L 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.

**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 and Marketing of Health Care Services** (3). Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the
health services industry. Prerequisites: HSA 6175, or permission of instructor.

HSA 6155 Health Policy and Economics (3). The impact of government, private sector, and various interest groups on health care policy determination is analyzed through the application of basic economic principles. Prerequisite: HSA 6175 or permission of instructor.

HSA 6175 Financial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisite: HSA 5125, HSC 5515, HSA 6185, or permission of instructor.

HSA 6176 Financing & Reimbursement of Health Systems (3). Financial models for health delivery systems are examined. Reimbursement strategies of medicare, medicaid and other third party payers are analyzed. Prerequisites: HSA 6175 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 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 6125 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMOs) 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 risk taking behavior and preventive intervention. Critical review of models of health behavior.

HSA 6415 Managerial Applications of the Social Determinants of Health (3). Social, psychological, and cultural determinants of health and their impact on health behavior and utilization are examined. Implications for managerial decision-making and health policy.

HSA 6426 Health Law and Legal Aspects of Management (3). The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisite: HSA 6185 or permission of instructor.

HSA 6717 Advanced Health Services Management and Research Seminar (3). Integrates the theoretical and practical knowledge of other courses and activities in the curriculum. Selected case studies and relevant research drawn from the literature in health care management provide the substantive framework for seminar analysis of issues and policy questions. Prerequisite: Completion of all other coursework or permission of instructor.

HSA 6756 Applied Programs Development and Evaluation Methods In Health Services (3). Program evaluation as part of on-going assessment of effectiveness and resource consumption (costs). Evaluation models and study design are analyzed. Grant proposal writing is emphasized. Prerequisite: HSC 5515.

HSA 6875 Administrative Residency (3). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisite: Approval of the Coordinator.

HSA 6877 Masters Research Project (3). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: Permission of advisor.

HSA 6905 Graduate Independent Study (3). This course is designed to allow students an opportunity for in-depth literature research or an action-oriented project carried out under the supervision of their faculty advisor. Prerequisite: Permission of faculty advisor.

HSC 5506 Epidemiology and Research Methods of Public Health (3). Advanced epidemiological and survey research methods are applied to the investigation of public and personal health problems. Prerequisite: HSC 5515.

HSC 5515 Statistical and Research Methods for Health Services (3). This course presents concepts of descriptive, inferential, and non-parametric statistics, including the use of common computer program packages for analyzing public and clinical health statistical data. Prerequisite: HSC 4510 or equivalent.
Public Administration

Harvey Averch, Professor and Director
Keith W. Baker, Associate Professor
James Carroll, Professor
Milan Dluhy, Professor of Public Administration and Social Work
Howard Frank, Assistant Professor
Jean-Claude Garcia-Zamor, Professor
Donald Klingner, Professor
Ralph G. Lewis, Associate Professor
Manny Lorenzo, Instructor
Stephen C. Loveless, Associate Professor
Carmen Mendez, Instructor
Robert Meyers, Assistant Professor
Allen Rosenbaum, Professor and Dean
Barbara Yarnold, Assistant Professor

Master of Public Administration

The Master of Public Administration is intended to prepare students for careers in public service and non-profit organizations. It is also intended to prepare students for private sector positions for 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 is also suited to provide 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 are required to 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 39 semester hours, consisting of nine required courses (27 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 6701 Quantitative Methods and Computer Skills 4
PAD 6706 Research Methods in Complex Public Organizations 4
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 5256, PAD 5716, PAD 6701, 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 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 5417 Social Equity and Human Resource Management 3
PAD 5363 Productivity Improvement 3
PAD 6109 Organizational Development and Change 3
PAD 5435 Administrator and the Role of Women 3
PAD 5403 Government and Minority Group Relations 3
PAD 6437 Dynamics of Individual Growth 3
PAD 6436 Professionalism and Ethics 3
PAD 5616 Contracting and Managing Third Party Governments 3

In addition to the above three courses, students must take:

PAD 6419 Seminar in Applied Personnel Systems 3

International Comparative and Development Administration

The following two courses must be taken:

PAD 6836 International Public Administration 3
PAD 6838 Development Administration 3

An additional course from the Department must be selected from the following three:

PAD 6839 Comparative Public Policy 3
PAD 6225 Comparative Public Budgeting 3

One course must be taken from the following offerings of the College of Business and Department of Economics:

FIN 6626 International Bank Lending and Practices 3
FIN 6636 International Finance 3
MAN 6603 Problems in Comparative Management 3
ECS 5024 Economic Planning 3
ECS 5005 Comparative Economic Systems 3
ECS 5025 Economic Problems of Emerging Nations 3

Budget and Analysis

Students must take the following three courses:

PAD 5417 Social Equity and Human Resource Management 3
PAD 5363 Productivity Improvement 3
PAD 6109 Organizational Development and Change 3

In addition to the above three courses, students must take:

PAD 6419 Seminar in Applied Personnel Systems 3

International Comparative and Development Administration

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FIN 6626 International Bank Lending and Practices 3
FIN 6636 International Finance 3
MAN 6603 Problems in Comparative Management 3
ECS 5024 Economic Planning 3
ECS 5005 Comparative Economic Systems 3
ECS 5025 Economic Problems of Emerging Nations 3
PAD 6386  Applied Policy Analysis and Management Science  3
PAD 6205  Public Financial Management  3
PAD 5616  Contracting and Managing Third Party Governments  3

Students must take one of the following two methods courses:
PAD 7705  Applied Quantitative Analysis  3
PAD 6229  Advanced Management Techniques  3

Outside Specializations
Students who wish to construct their own concentrations in cognate areas of public administration such as criminal justice, economics, social work, or anthropology may do so under the following conditions:
1. A written proposal specifying outside courses and concentration rationale must be presented to the 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 is conferred the degree only after demonstrating such knowledge, in course work, in examinations, and in disciplined research. Its pursuit is a rigorous one, administered by a research-oriented faculty fostering the commitment to testing the boundaries of knowledge. The program should be entered only by those students who seek academic and research careers rather than practitioner advancement.

The Doctoral program is a research-oriented degree. However, the objective is not to confine holders of the Ph.D. in Public Administration entirely to teaching careers. The program is designed to provide students with a firm command of relevant theoretical and operational knowledge and research skills in public administration and to assist them in applying this knowledge to a broad array of career goals.

The concept of a research-oriented Ph.D. degree is firmly supported by the National Association of Schools of Public Affairs and Administration (NASPAA) Guidelines for Doctoral Programs, which stress that the doctoral should not be seen as merely a credential for practitioners. Accordingly, the Ph.D. program in Public Administration includes a substantial amount of formal course work, and requires a demonstrated capacity to be a problem-solver, in the form of independent research and writing, notably the dissertation.

Admission Requirements
Application for admission to the Ph.D. in Public Administration may be made either at FIU or FAU, but not to both. 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 and research are major elements. An Applicant must have received a master's degree from an accredited college or university. Generally, an applicant is expected to have 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, some applicants may be considered on the basis of their baccalaureate degree. Foreign students will be expected to achieve a TOEFL score of 550 or higher. Admitted students may transfer a maximum of six semester credits (not included in another degree) from other institutions toward Ph.D. degree requirements. Outstanding applicants whose prior work is judged to be insufficient relative to that required for an MPA will be asked to complete additional course work.

Degree Requirements
To be awarded the degree, admitted students must complete at least 69 semester hours beyond the master's degree, or its equivalent, including 45 semester hours of approved course work and 24 hours of dissertation work after admission to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment. A post-core evaluation and passing scores on the comprehensive examination taken after completion of the core curriculum and concentration (45 semester hours) is required before students can advance to candidacy for the Ph.D. and present a dissertation proposal. Completion of all work must be within seven years after an applicant's admission into the program.

Program of Study
The Doctor of Philosophy in Public Administration is a 69 semester hour program composed of eight required courses 24 semester hours; two courses (advisory committee) - six semester hours; five courses (area of concentration) - 15 semester hours; dissertation - 24 semester hours after admission to candidacy.

Core Curriculum: (24)
PAD 7705  Advanced Quantitative Analysis  3
PAD 7707  Applied Research Methods  3
PAD 7026  Conceptual Foundations of Public Administration  3
PAD 7257  Economic Context of Public Administration  3
PAD 7607  Legal Context of Public Administration  3
PAD 7102  Advanced Organization Theory  3
PAD 7055  Scope and Theory of Public Administration  3
PAD 7702  Empirical Methods in Public Administration  3

Specified Courses: (6)
In addition, students must complete at least six hours of course work (as required by their advisory committee). Six of these hours must be in research related courses.

Areas of Concentration: (15):
Each student will select one area of concentration. The specific courses in a student's concentration will be determined by consultation between the student and the advisory committee. The 15 se-
mester hours of concentration can be earned in one of two ways: (1) The students may select their 15 semester hours from one of the following public administration concentrations currently offered: Public Policy, Human Resources Administration, Comparative Administration, or Budgeting and Public Financial Administration or (2) Students may develop their own concentration in areas of their choice relevant to public administration, such as criminal justice, social work, etc. All areas of concentration are developed after consultation with and upon approval of the advisory committee:

Post-Core Evaluation
All students will be evaluated upon completion of the core curriculum to determine their potential for completion of the program.

Comprehensive Examination
Students will be given either a written or oral examination, or both, on the non-methological material covered in the core curriculum and area of concentration. Upon passing these exams, the student may apply for advancement to candidacy for the Ph.D. This requires registration for a minimum of 24 dissertation credits.

Dissertation (24):
Upon successful completion of the comprehensive examination, students select their dissertation guidance committee and begin preparation of their dissertation proposal. Upon 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 3 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 institution conferring the degree.

Certificates
The department offers certificates in Aging Policy and Administration, 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 interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

**PAD 5043 Government and Minority Group Relations (3).** Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

**PAD 5256 Public Economics and Cost Benefit Analysis (4).** This course provides the quantitative and qualitative tools and case material to solve allocation problems in the public sector. A rigorous introduction to applied microeconomic theory is provided as well as an introduction to welfare economics. Market and government failure are analyzed as are the public alternatives available. The economics of innovation is contrasted to the benefit-cost analysis, cost effectiveness analysis and systems analysis are presented. The ethics of applied practice are discussed via actual cases and the important skills of communicating with decision makers are taught. At the end of the course, every student presents orally their analysis of an important real world allocation problem or an actual cost-effectiveness analysis drawn from their own work situation or experience.

**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-media 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 5716 Management Support Systems in Public Organizations (1).** The course examines a variety of computer-based management support applications used in public sector organizations. It also explores design and implementation issues endemic to the public sector.
Graduate Catalog

PAD 5716L Information Systems for Public Organizations (1). This course will provide an overview of microcomputer and mainframe skills required for substantive coursework in personnel, budgeting, and other core public sector functions.

PAD 5934 Contemporary Issues in Public Administration (1-6). 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. Differences in 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. Prerequisites: Completion of MPA Core; last semester of coursework status.

PAD 6106 Organization Theory and Administrative Behavior (3). Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

PAD 6109 Organizational Development and Change (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6224 Advanced Seminar in Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and 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 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6015.

PAD 6417 Public Personnel Administration (3). This course focuses on the fundamentals of public personnel administration applied to general and specific issues of civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; manpower development and training; the application of the behavioral approach in personnel administration; unique public personnel management problems; governmental unionization and collective bargaining; and future perspectives in personnel administration.

PAD 6418 Seminar in Public Personnel 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. Prerequisites: PAD 6417.

PAD 6419 Seminar in Applied Public Personnel Management (3). Analysis of advanced technique for staffing, productivity improvement and cost 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 responsibilities 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; administrative 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 structures and dynamics of public organizations and to develop alternative Models and new theoretical perspectives concerning the scope and theory of the field.

PAD 7102 Advanced Organization Theory (3). Philosophical foundations of contemporary organization theory, with emphasis on dynamic interfaces between the environmental contexts and organizations, critical analysis of both the normative and incremental orientation of concepts, theories, models, and applications. Prerequisite: PAD 6106 or equivalent.

PAD 7257 Economic Context of Government (3). This course examines interdisciplinary approaches to collective decision making and the delivery of public goods and services. Prerequisite: PAD 5256.

PAD 7607 Legal Context of Public Administration (3). This course analyzes the administrative significance of delegation, judicial review, rule making, freedom of information and sunshine laws, legislative veto, and liability for administrators. Prerequisite: PAD 6053.

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 (3). Application of selected multivariate statistical and quantitative models to the field of public administration. Prerequisite: PAD 6701.

PAD 7707 Advanced Applied Research Methods (3). 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 (3-12). 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 Brir, Professor and Director
L. Yvonne Barcarisse, Associate
Professor and Associate Dean
Millan J. Dluhy, Professor of Public
Administration and Social Work
James E. Garrett, Associate Professor
Manuel R. Gomez, Assistant Professor
Mary Helen Hayden, Assistant
Professor and Director of Field
Instruction
Katherine Hooper Brir, Professor
Michael Kolevzon, Professor
Rosa Jones, Associate Professor
Monte Koppel, Professor
Sanford Kravitz, Distinguished
Professor of Public Affairs
Magaly Queralt, Associate Professor
Florence Safford, Associate Professor
Betsy Smith, Associate Professor
Karen Sowers-Hoag, Assistant
Professor and Coordinator
Undergraduate Program

The Department of Social Work offers
graduate and undergraduate studies
leading to the Master's and Bachelor's
degrees in Social Work.

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 under-
standing of society and human behav-
ior; 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 Mas-
ter of Social Work. The program is de-
signed 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 edu-
cation: human behavior and the social
environment, social welfare policies and
services, research, and social work prac-
tice. The knowledge acquired in the pro-
fessional courses will be applied in
supervised field experiences in social
agencies.

All students will be expected to se-
lect one of two advanced concentrations:
- Services to the Elderly, or Services to
  Children and Families, and to plan a
course and field practicum program that
supports practice in the specialized
field. With the help of faculty, students
will develop individualized programs in
the concentrations that seem most likely
to meet their educational needs and con-
tribute 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 Educa-
tion.

Admission Requirements

Applicants to the graduate program are
required to meet the minimum stand-
ards set forth by the Florida Board of Re-
gents and the graduate social work
program. This includes a combined
score of 1000 on the Verbal and Quan-
titative Aptitude Tests of the Graduate
Record Examination or at least a 3.0 av-
erage in all upper-level division work.
Application procedures for admission to
graduate study will be found in the dis-
cussion of University procedure for ad-
mission to graduate study in the current
catalog. An application to the Social
Work graduate program, a personal nar-
rative, and three letters of reference will
be required for admission. A personal in-
terview may be requested also. All appli-
cants should have had college-level
courses in biology (including coverage
of Human Biology) and statistics and 12
semester hours in the social and behav-
ioral 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 Coun-
 cil on Social Work Education will be con-
sidered for admission to advanced
standing. Applicants for the advanced
standing program will not be awarded
any transfer credit, substitutions, or ex-
ceptions. Advanced standing is not
automatically granted. It is subject to the
following additional requirements: Suc-
cessful completion of an appropriate
field practicum in the undergraduate
educational experience. Successful com-
pletion of the advanced standing core
course requirements with grades of 'B'
or higher. Admission to the second year
concentration will be governed by suc-
cessful completion of these additional re-
quirements to the minimum standards
set forth by the Florida Board of Re-
gents and the graduate Social Work pro-
gram.

All applicants must be approved for
admission by the faculty of the Depart-
ment of Social Work.

The following regulations govern
transfer credits:

1. Courses taken at a CSWE accred-
ited graduate school of social work in
which the applicant was a fully admitted,
can 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 re-
quirements of another degree may be
transferred up to a maximum of nine sem-
ester hours.

3. Students in the advanced stand-
ing program will not be awarded transfer
credits.

Degree Requirements

The Master of Social Work program is a
60 semester hour program composed of
30 semester hours of the required com-
mon base in the first year and 30 semes-
ter hours of concentration courses in the
second year. The advanced standing
Master of Social Work is a 41 semester
hour program composed of 11 semester
hours of required core courses and 30
semester hours of concentration
courses.

A 'B' average is required for gradua-
tion. Any core course in which a stu-
dent 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 com-
plete all work applicable to the Master of
Social Work program within 48 months
from initial admission. In unusual cir-
cumstances, and if the reasons warrant it, a
student may petition the department Di-
rector for an extension of the time limit.

First Year

Required Courses: (30 semester
hours)
SOW 5105 Human Behavior and the
Social Environment I 3
SOW 5106 Human Behavior and the
Social Environment II 2
SOW 5125 Human Behavior and the
Social Environment III 2
SOW 5235 Social Welfare Policy I 2
SOW 5236 Social Welfare Policy II 2
SOW 5342 Social Work Practice I 3
SOW 5344 Social Work Practice II 3
SOW 5404 Basic Research
Methodology I 3
SOW 5532 Field Practicum I 6
SOW 5542 Integrative Field
Seminar I 1
Elective 3

Advanced Standing

Required Courses: (11 semester
hours)
SOW 5125 Human Behavior and the
Social Environment III 2
SOW 5236 Social Welfare Policy II 2
SOW 5344 Social Work Practice II 3
Graduate Catalog

Second Year

Concentration Requirements: (30 semester hours)

Services to Children and Families
SOW 6243 Child and Family Social Policy Issues 3
SOW 6281 Legal Aspects of Social Work Practice 3
SOW 6351 Intervention Strategies in Marriage and the Family 3
SOW 6435 Evaluative Research in Social Work I 3
SOW 6655 Intervention Strategies with Children and Adolescents 3
SOW 6535 Field Practicum II 8
SOW 6543 Integrative Field Seminar II 6

Elective: A Direct Practice Course 3

Elective: A Direct Practice Course 3

SOW 5541 Advanced Standing Practicum Seminar 1

Elective: A Direct Practice Course 3

Note: Students interested in administration and supervision must develop a program of studies plan with the concentration coordinator.

Services to the Elderly
SOW 5641 Understanding the Process of Aging 3
SOW 6245 Social Welfare Policy and Services for the Elderly (or SOW 6649) 3
SOW 6359 Social Work Treatment with Families of the Elderly 3
SOW 6281 Legal Aspects of Social Work Practice 3
SOW 6435 Evaluative Research in Social Work I 3
SOW 6646 Social Work Practice with the Elderly 3
SOW 6649 Social Work Practice in Long Term Care and the Elderly (or SOW 6359) 3
SOW 6535 Field Practicum II 8
SOW 6543 Integrative Field Seminar II 6

Elective 3

Note: Students interested in administration and supervision must develop a program of studies plan with the concentration coordinator.

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-socio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology (including coverage of human biology).

SOW 5106 Human Behavior and the Social Environment II (3). 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). A beginning 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 tapped case materials, with opportunities to view social problems and social work practice with individuals, families and groups within a cross-cultural, multi-ethnic perspective. Prerequisite: SOW 5105.

SOW 5344 Social Work Practice II (3). This course is a continuation of SOW 5342. It includes application of change process theories, techniques, and intervention strategies dealing with groups, organizational systems, and communities. Prerequisite: SOW 5342 or equivalent. Corequisites: SOW 5542 and SOW 5532.

SOW 5354 Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or permission of instructor.

SOW 5404 Basic Research Methodology I (3). This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics.

SOW 5532 Field Practicum I (6). A supervised educational field experience in an agency setting for a minimum of 384 clock hours designed to provide students opportunities to develop and apply generic practice skills in working with individuals, families, groups and communities. Prerequisites: SOW 5105, SOW 5235, SOW 5342. Corequisites SOW 5106, SOW 5125, SOW 5236, SOW 5344, SOW 5542.

SOW 5541 Advanced Standing Practicum Seminar (1). Drawing on experiences from undergraduate fields practica, this seminar examines current issues and values in the profession, the relationship between theory and practice with a focus on the social environments in which clients function and the
Implications for policy and research. Prerequisite: BSW degree from a CSWE-accredited program. Co- or Pre-requisites: 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 community. 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 5625 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 SOW practice to improve the functioning of children. Prerequisites: SOW 5342 or permission of instructor.

SOW 5641 Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and permission of instructor.

SOW 5665 Animal Assisted Treatment for Social Work (3). An introduction to the human animal bond and animal assisted treatment. There will be illustrations of programs using small animals, horses, and dolphins. Prerequisites: SOW 3313 or SOW 5342 or permission of instructor.

SOW 5689 Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems; 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 Counselling 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 5641 and SOW 6245.

SOW 6281 Legal Aspects of Social Work Practice (3). Introduction to legal aspects of social work practice including client and agency rights, malpractice issues, legal research, and practice interaction with legal counsel, legal services, and the courts. Prerequisite: Admission to concentration.

SOW 6335 Community Development and Urban Practice (3). This advanced practice course examines planned change and community development in urban settings. Emphasis is placed on community decision making and the linkages between family development, physical development and economic development. Prerequisite: Admission to a concentration or permission of instructor.

SOW 6351 Intervention Strategies in Marriage and the Family (3). This course will provide students with an understanding and application of the major models of social work intervention in working with families, with critical analysis skills in assessing family functioning and in implementing intervention techniques. The influence of cultural/ethnic differences and how these may affect family relationships and functioning will be assessed. Prerequisite: Admission to concentration.

SOW 6359 Social Work Treatment with Families of the Elderly (3). Preventive and treatment approaches in social work practice with families of the elderly. Focus on aging family as client system; knowledge, skills needed for a range of interventions are provided. Prerequisites: SOW 5641, SOW 6646.

SOW 6372 Supervision, Consultation and Staff Development (3). Key aspects of the social services supervisory situation are explored. This course emphasizes supervisory competence, issues facing supervisor and supervisee. Also explores consultation and staff development. Prerequisite: Admission to a concentration or permission of instructor.

SOW 6386 Social Program Planning and Development (3). Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs do not exist will receive special emphasis. Prerequisite: Admission to a concentration, or permission of instructor.

SOW 6387 Social Services Management Skills (3). Learning units in which students practice and demonstrate, through simulation and participation, skills in major aspects of social services management. Prerequisite: Admission to a concentration or permission of instructor.
SOW 6435 Evaluative Research in Social Work I (3). This course focuses on research designs for evaluating social work practice and social programs. The ethics, politics, and conduct of evaluative research are taught within the context of the purposes, values, and ethics of professional social work practices. Prerequisite: Admission to concentration, or permission of instructor.

SOW 6436 Empirically-Based Practice in Social Work (3). Advanced utilization of intervention effectiveness research results and techniques in social work practice with individuals, families, and groups. Prerequisites: SOW 6435 and an advanced practice course in a concentration.

SOW 6535 Field Practicum II (6). This field practicum is a 516-hour supervised educational experience in an agency setting designed to provide the student with an opportunity to develop and practice social work skills in the student's area of concentration. Majors only. Prerequisites: Admission to concentration, SOW 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 an arena for various settings to come together in order to provide a richer understanding of social services. Majors only. Prerequisites: SOW 5532 and SOW 5542. Corequisites: SOW 6535 and an advanced practice course in the concentration.

SOW 6611 Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples. Focus will be given to 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. Pre- or Corequisite: SOW 5641.

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: SOW 5641 and SOW 6245.

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 therapeutic 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 therapy practices. Prerequisite: Admission to concentration. Corequisite: SOW 6535 or permission of instructor.

SOW 6656 Decision-Making in Child Placement (3). This course will stress decision-making and interventions when substitute care is considered or carried out. Termination of parental rights and the choice and timing of placements of children will be considered. Prerequisite: Admission to concentration or permission of instructor.

SOW 6683 Social Work Practice with the Developmentally Disabled (3). This course provides knowledge about the potential impact of developmental disabilities on individuals and families. Social work interventions with interdisciplinary teams will be addressed. Prerequisite: Admission to concentration or permission of instructor.

SOW 6914 Independent Research (1-3). Individually selected program of supervised data collection and analysis on topics in social work and social welfare. Prerequisite: SOW 3403 or SOW 5404 or permission of instructor.

SOW 7215 Social Welfare Policy Seminar (3). This course analyzes the history and evolution of social welfare policy in the United States and examines the major theories and frameworks used to analyze social welfare policy. Prerequisite: Admission to Ph.D. program or permission of instructor.

SOW 7237 Social Welfare Research Priorities I (3). Analysis of research priorities in the development of effective interventions in the social welfare field. Prerequisite: Admission to Ph.D. program or permission of instructor.

SOW 7238 Social Welfare Research Priorities II (3). This course focuses on intervention research and methods at the community, organizational, and societal level. Prerequisite: SOW 7237.

SOW 7492 Research Methods in Social Welfare I (3). Research 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 the social work field. Prerequisites: SOW 7492 and SOW 7493.

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 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.
Certificate Programs

Certificate in Aging Policy and Administration

Florida has the highest percentage of population sixty-five or older in the country. Providing cost-effective, high-quality public and non-profit services to this burgeoning segment of the population will be a crucial task facing policy planners as we approach the year 2000. This certificate will provide practitioners with the requisite skills needed to make informed policy judgments in the aging arena.

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 Gerontology Policy. 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: (22)

- SOW 5643 Understanding the Process of Aging 3
- HSA 5225 Organization and Management in Nursing Home Administration 3
- PAD 5256 Public Economics and Cost Benefit Analysis 4
- PAD 5616 Contracting and Managing Third Party Governments 3
- PAD 5917 Decision Support Systems in the Public Sector 3
- PAD 6205 Public Financial Management 3
- PAD 6386 Applied Policy Analysis and Management Science 3

Students must complete their program of study within three years from the date of admission and receive no less than a 3.0 GPA.

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
- PAD 6838 Development Administration

An additional course from the Department must be selected from the following:
- PAD 6839 Comparative Public Policy
- PAD 6225 Comparative Public Budgeting

One course will have to be taken from the following in the College of Business Administration:
- FIN 6226 International Bank Lending and Practices
- FIN 6636 International Finance
- MAN 6603 Problems in Comparative Management

One course must be taken from the following in the Economics Department:
- ECS 5025 Economic Planning
- ECS 5005 Comparative Economic Systems
- ECS Economic Problems of Emerging Nations

Students enrolled in the certificate must obtain the consent of the certificate director before enrolling. Students must complete their program of study within three years from the date of admission and receive a minimum GPA of 3.0.

Certificate in 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: (17)

- SOW 5643 Understanding the Process of Aging 3
- SOW 5905 Individual Study 2
- SOW 5605 Medical Social Work 3
- SOW 5845 Counseling the Elderly 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 the Elderly 3
- SOW 6646 Social Work Practice with the Elderly 3
- SOW 6647 Advocacy in Social Work Practice 3
- SOW 6649 Social Work Practice in Long Term Care and the Elderly 3

1Only certificate students with an MSW degree or students admitted to the Master's degree program in Social Work.

Health Services Administration

- HSA 5225 Organization and Management in Nursing Home Administration 3
- HSA 6875 Administrative Residency 3
- HSA 6905 Graduate Independent Study 3

Education

- ADE 5195 Designing Education and HRD Programs for Disadvantaged Adults 3

Criminal Justice

- CCJ 5935 Special Topics: Crime and the Elderly 3

Psychology

- SOW 5405 Proseminar in Psychology of Adulthood and Aging 3
- DEP 6438 Gerontological Assessment 3
- DEP 6465 Psychology of Culture and Aging 3
- DEP 6446 Cognitive Processes of Aging 3
- DEP 6477 Psychology of Social Processes in Aging 3
- DEP 6937 Current Literature in the Psychology of Adulthood and Aging 3
Admissions

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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CCJ 3271</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3290</td>
<td>Judicial Policy Making</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3291</td>
<td>Judicial Administration</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4032</td>
<td>Crime and the Media</td>
<td>3</td>
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<tr>
<td>CCJ 4252</td>
<td>Criminal Justice and the Constitution</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4290</td>
<td>Law and Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4282</td>
<td>Legal Issues in Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4752</td>
<td>Legal Research</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>
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</tbody>
</table>

Certificate in Public Management

This professional certificate program will provide students with a thorough understanding of the managerial concepts and techniques of public administration and is designed particularly for those who already have a professional field of specialization.

Admission

All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward the MPA core. However, if students have enrolled in more than one certificate program, a maximum of 15 semes-

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<tr>
<td>OTH 5600</td>
<td>Study of gerontology as Related to Occupational Therapy</td>
<td>3</td>
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<tr>
<td>OTH 5630</td>
<td>Occupational Therapy Assessment of the Elderly</td>
<td>3</td>
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Professional Certificate in Human Resource Policy and Management

The Professional Certificate in Human Resource Policy and Management is designed to give graduate students a range of policy-analytic and management skills. It provides training in alternative personnel systems, (civil service, collective bargaining, privatization and contracting out), personnel techniques for productivity improvement, current issues, and ethics and professionalism. This certificate emphasizes the application of behavioral science concepts and techniques to employers in a multi-cultural context.

Required Courses

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PAD 6417</td>
<td>Public Personnel Administration</td>
<td></td>
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<tr>
<td>PAD 5616</td>
<td>Managing Third Party Governments</td>
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<tr>
<td>PAD 5417</td>
<td>Social Equity</td>
<td></td>
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<tr>
<td>PAD 5427</td>
<td>Collective Bargaining</td>
<td></td>
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<tr>
<td>PAD 5363</td>
<td>Productivity Improvement</td>
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<tr>
<td>PAD 6419</td>
<td>Seminar in Public Personnel Systems</td>
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<tr>
<td>PAD 6436</td>
<td>Professionalism and Ethics</td>
<td></td>
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<tr>
<td>PAD 6109</td>
<td>Organizational Development and Change</td>
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<tr>
<td>PAD 5435</td>
<td>Administrator and the Role of Women</td>
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<tr>
<td>PAD 5043</td>
<td>Government and Minority Group Relations</td>
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<tr>
<td>PAD 6437</td>
<td>Dynamics of Individual Growth</td>
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Professional Certificate in Justice Administration and Policy Making

The Professional Certificate in Justice Administration and Policy Making is designed to complement a range of professional activities, academic programs, and degrees in the field of criminal justice. The goals of the program are to (1) 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

Applicants must have a bachelor's degree from an accredited college or university. Students must be admitted to the certificate program by the department director, who will serve as their faculty advisor. Admission to the program does not ensure admission to the Master's degree in Criminal Justice Administration.

Note: Students who apply for and are admitted to the Master of Science in Criminal Justice Administration degree program may have their certificate courses with a grade of 'B' or better credited toward the master's degree program.

Program of Study

A total of 15 successfully completed semester hours is required to complete the certificate program. Students must complete their program of study within three years from the date of admission and receive a 3.0 GPA or higher in their program of study.

Core Required Courses

<table>
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<tr>
<th>Course Code</th>
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<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 the Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5445</td>
<td>Corrections and Correctional Management</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5105</td>
<td>Police Organization, Behavior and Administration</td>
<td>3</td>
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</table>

Optional Courses

Select one of the following courses. Substitutions may be made with the approval of the faculty advisor.

<table>
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<tbody>
<tr>
<td>CCJ 5605</td>
<td>Deviance and Social Control</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5935</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6477</td>
<td>Seminar in Information Systems</td>
<td>3</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.

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<td>Occupational Therapy Assessment of the Elderly</td>
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</tbody>
</table>
ter 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 a 3.0 GPA.

Certificate in International Comparative and Development Administration

This program is intended to develop skills and techniques for use by officials involved in development administration in developing and newly industrializing countries.

Admission

All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will also serve as their faculty advisor. Admission to the certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward an outside specialization in International Comparative and Development Administration. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into the MPA program.

Program of Study: (15)

The following two courses must be taken:

PAD 6836 International Public Administration 3

PAD 6838 Development Administration 3

An additional course from the department must be selected from the following:

PAD 6839 Comparative Public Policy 3
PAD 6225 Comparative Public Budgeting 3

One course must be taken from the following offerings of the College of Business:

FIN 6626 International Bank Lending and Practice 3
FIN 6636 International Finance 3
MAN 6003 Problems in Comparative Management 3

One course must be taken from the following offerings of the Economics Department:

ECS 4024 Economic Planning 3
ECS 5005 Comparative Economic Systems 3
ECS 5025 Economic Problems of Emerging Nations 3

Students must complete their program of study within three years from the date of admission and receive no less than a 3.0 GPA.

Certificate in Human Resource Policy and Management

Human Resource Policy and Management is designed to give graduate students a range of policy-analytic and management skills. It provides training in alternative personnel systems, (civil service, collective bargaining, privatization and contracting out), personnel techniques for productivity improvement, current issues, and ethics and professionalism. This certificate emphasizes the application of behavioral science concepts and techniques to employers in a multi-cultural context.

Admission

All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will also serve as their faculty advisor. Admission to the certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward an outside specialization in 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:

PAD 5427 Collective Bargaining and the Public Sector 3
PAD 5417 Social Equity and Human Resource Management 3
PAD 5363 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 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 a 3.0 GPA.

Certificate in Public Personnel Management and Labor Relations

Public Personnel Management and Labor Relations are one of the fastest growing fields in public administration today.

Supervisors need a knowledge of human relations to work well with employees and clients in a multi-ethnic society. Personnel managers need to know how to design and improve human resource management activities as well as how to bargain collectively and resolve grievances.

The Certificate Program goes beyond the traditional areas of interview-
ing, hiring, and salary schedules to explore the effective utilization of human resources in public agencies by providing both a philosophical framework and opportunities for knowledge and skills in the critical field of Personnel Management.

Admission
All applicants must hold a baccalaureate degree from an accredited college or university. Students must be admitted to the program by the Program Coordinator, who will serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward the Track II specialization in Public Personnel Management and Labor Relations. 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 MPA program.

Program of Study: (15 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5427</td>
<td>Collective Bargaining in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6417</td>
<td>Public Personnel Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6419</td>
<td>Seminar in Applied Public Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6437</td>
<td>Dynamics of Individual Growth</td>
<td>3</td>
</tr>
</tbody>
</table>

Optional Courses (one needed)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5043</td>
<td>Government and Minority Group Relations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5435</td>
<td>Administrator and the Role of Women</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6109</td>
<td>Organizational Development and Change</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete their program of study within three years from the date of admittance and receive no less than a 3.0 GPA.

School of Public Affairs and Services

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Associate Dean
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