

FLORIDA INTERNATIONAL UNIVERSITY

Member of the State University System Miami, Florida

2003-2004 UNIVERSITY GRADUATE CATALOG

TABLE OF CONTENTS

- 3 Academic Calendar
- 9 Message from President Maidique
- 9 Message from Dean Wartzok
- 10 University Information
- 10 State Board of Education
- 10 Florida Board of Governors
- 10 FIU Board of Trustees
- 10 Executive Council
- 10 University Mission
- 10 University Values Statement
- 11 The University
- 12 University Park Campus
- 13 Biscayne Bay Campus
- 13 FIU Broward-Pines Center
- 14 Accreditations
- 15 University Graduate School
- 17 Academic Programs
- 21 Graduate Admissions
- 24 Tuition and Fees
- 28 Financial Aid
- 30 University Graduate School Rules and Regulations
- 30 Classification of Students
- 30 Academic Degree Requirements
- 32 Registration

- 33 Grading
- 34 Student Records
- 35 Class Attendance
- 35 Religious Holy Days
- 35 Veterans Information
- 36 Enrollment Certification
- 36 Florida Residency Information
- 38 General Information
- 49 Administration and Staff
- 54 Florida's Statewide Course Numbering System
- 56 Academic Units
- 58 Centers and Institutes
- 60 Support Services
- 62 School of Architecture
- 71 College of Arts and Sciences
- 183 College of Business Administration
- 215 College of Education
- 281 College of Engineering
- 337 College of Health and Urban Affairs
- 401 School of Hospitality and Tourism Management
- 409 School of Journalism and Mass Communication
- 416 Index

Campus Maps (inside front and back covers)

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

Fees given in this catalog are tentative pending legislative action.

MAILING ADDRESS GRADUATE ADMISSIONS

Florida International University Graduate Admissions Office P.O. Box 659004 Miami, FL 33265-9004

MAILING ADDRESS UNIVERSITY GRADUATE SCHOOL

Florida International University University Graduate School University Park, PC 236 Miami, FL 33199

EMAIL ADDRESS: ugs@fiu.edu
UNIVERSITY GRADUATE SCHOOL WEBSITE: http://www.fiu.edu/ugs
GRADUATE ADMISSIONS OFFICE WEBSITE: http://www.fiu.edu/gradadm
ONLINE APPLICATIONS: http://www.fiu.edu/gradadm

FLORIDA INTERNATIONAL UNIVERSITY

UNIVERSITY PARK CAMPUS

11200 SW 8th Street Miami, Florida 33199 305-348-2000

FIU BROWARD - PINES CENTER

17195 Sheridan Street Pembroke Pines, Florida 33331 954-438-8600

BISCAYNE BAY CAMPUS

3000 NE 151st Street North Miami, Florida 33181 305-919-5500

ENGINEERING CENTER

10555 W. Flagler Street Miami, Florida 33174 305-348-3034

EMERGENCY - DIAL 5911

AREA CODES:

University Park phone numbers begin with area code 305

Biscayne Bay phone numbers begin with area code 305

FIU Broward-Pines Center phone numbers begin with area code 954

Engineering Center numbers begin with area code 305

From any FIU campus, dial FIU numbers direct:

All University Park phone numbers 7-xxxx

All Biscayne Bay phone numbers 6-xxxx

All FIU Broward-Pines Center phone numbers 6-xxxx

All Engineering Center numbers 7-xxxx



ACADEMIC CALENDAR 2003 • 2004



June 2 First day to apply for Fall 2003 term graduation.

July 18 Last day to submit FORM C (Doctoral students planning to graduate in Summer 2004 and master's students

planning to graduate in Fall 2003).

July 28 Registration Information and Access Codes available for Fall 2003 term.

July 30 - August 8 Official Registration (Degree-Seeking Students) only by appointment time and day.

August 11 - 20 Short Term Tuition Loan Applications available.

August 11 - 20 Open Registration All Students. Web and Kiosk Registration Continuous.

August 20 Last day (by 7 p.m.) for students to apply for a Short Term Tuition Loan.

Last day (by 7 p.m.) to pay tuition and fees to avoid cancellation of enrollment. Last day to register (by 7 p.m.) without incurring a \$100.00 late registration fee.

August 20 Graduate Orientation (University Park Campus)

(Early Housing Check-in available 8/19 from 9a.m. - 5p.m. Early Housing Check-in is available ONLY for residents registered for these Orientations and who live outside Dade and Broward Counties. Early Housing

Check-in is subject to a daily fee charge)
Official Housing Check-in 9 a.m. - 8 p.m.

August 21 - 24 Official Housing Check-in 9 a.m. - 8 p.m.

August 22 International Student Orientation (University Park and Biscayne Bay Campus)

August 25 Classes begin.

August 30 Last day (by 1 p.m.) to complete late registration.

Drop/Add Period ends at I p.m.

Last day to change a grading option.

Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring

a financial liability.

September I Labor Day Holiday (University Closed).

September 19 Last day (by 5 p.m.) to apply for graduation at the end of Fall 2003 term.

September 20 Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.

September 29 - October 3 Faculty Convocation Week.
October 3 Faculty Convocation.

October 3 Faculty Convocation.

October 4 - December 3 Fall 2003 Mini-Term.

October 18 Deadline (by 1 p.m.) to drop a course with a DR grade.

Deadline (by 1 p.m.) to withdraw from the University with a WI grade.

November 7 Last day to submit FORM D: Request for Thesis/Dissertation Defense.

November 11 Veterans' Day Holiday (University Closed).

November 14 Last day to submit FORM C (Doctoral students planning to graduate in Fall 2004 and

master's students planning to graduate in Spring 2004).

November 21 Last day to hold thesis/dissertation defense.

November 27 - 28 Thanksgiving Holiday (University Closed).

November 29 No Saturday Classes.

December 4 Classes end.

December 5 - 6 Exam Study Days (No exams given on these days)

(Exam Study Days do nor apply to labs, clinical placements, or internships. Friday only classes are exempted

from Exam Srudy Days.)

December 8 - 13 Official Examination Period.

December 12 Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.

December 15 - 16 Commencement Exercises.

December 17 Grades due at the Registrar's Office.

December 19 Grades available to students by web and at kiosks.

December 25 Christmas Holiday (University Closed).



Final Exams: April 17 - 23

September 2 Last day for International Students to submit applications for Spring term admission.

October 6 First day to apply for Spring 2004 term graduation.

November 10 Registration Information and Access Codes available for Spring 2004 term.

November 11 Veterans' Day Holiday (University Closed).

November 14 Last day to submit FORM C (Doctoral students planning to graduate in Fall 2004 and master's

students planning to graduate in Spring 2004).

November 15 - 21 Official Registration (Degree-Seeking Students only) by appointment time and day.

Nov. 24 - Dec. 29 Open Registration All Students. Web and Kiosk Registration Continuous.

November 27 - 28 Thanksgiving Holiday (University Closed). Web and Kiosk Registration Continuous.

December 25 Christmas Holiday (University Closed).

December 22 - 29 Short Term Tuition Loan Applications available.

December 29 Last day (by 5 p.m.) for students to apply for a Short Term Tuition Loan.

December 29

Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.

Last day to register (by 5 p.m.) without incurring a \$100.00 late registration fee.

New Year's Day (University Closed).

January 1 New Year's Day (University Closed January 2 - 4 Housing check-in 9 a.m. - 8 p.m.

January 2 International Student Orientation (University Park and Biscayne Bay Campus).

January 5 Classes Begin.

January 10 Last day (by 1 p.m.) to complete late registration.

Drop/Add Period ends at 1 p.m.

Last day to change grading option.

Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring

a financial liability.

January 19 Martin Luther King Holiday (University Closed).

January 20 Financial Aid Applications available for 2004-2005.

January 23 Last day (by 5 p.m.) to apply for Spring 2004 term graduation.

January 31 Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.

February 2 Last day for International Students to submit applications for Summer term admission

February 14 - April 14 Spring 2004 Mini-Term.

February 28 Last day (by 1 p.m.) to drop a course with a DR grade.

Last day (by 1 p.m.) to withdraw from the University with a WI grade.

March 19 Last day to submit FORM D: Request for Thesis/Dissertation Defense.

March 22 - 27 Spring Break.

March 29 Last day to submit FORM C (Doctoral students planning to graduate in Spring 2005

and master's students planning to graduate in Summer 2004.

April 1 Last day for International Students to submit applications for Fall 2003 term admission

April 2 Last day to hold thesis/dissertation defense.

April 14 Classes end.

April 15 - 16 Exam Study Days (No exams given on these days).

(Exam Study Days do not apply to labs, clinical placements, or internships.

Friday only classes are exempted from Exam Study Days.)

April 17 - 23 Official Examination Period.

April 23 Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.

April 26 - 27 Commencement Exercises.

April 27 Grades due at the Registrar's Office.

April 29 Grades available to students by web and at kiosks.

SUMMER

MAY 10 - AUGUST 14

TERM A

MAY 10-JUNE 25

February 2 First day to apply for Summer 2004 term graduation.

March 29 Last day to submit FORM C (Doctoral students planning to graduate in Spring 2005 and

master's students planning to graduate in Summer 2004).

April 5 Registration Information and Access Codes available for Summer 2004 term

April 10 - 16 Official Registration (Degree Seeking Students only) by appointment time and day

April 17 - May 4 Open Registration All Students. Web and Kiosk Registration Continuous.

April 26 - May 4 Short Term Tuition Loan Applications available.

May 4
Last day (by 7 p.m.) for students to apply for a Short Term Tuition Loan.

May 4
Last day (by 7 p.m.) to pay tuition and fees to avoid cancellation of enrollment.

Last day to register (by 7 p.m.) without incurring \$100.00 late registration fee.

May 7 International Student Orientation (University Park/Biscayne Bay Campus)

May 7 - 9 Housing check-in 9 a.m. to 8 p.m. for Summer Term A.

May 10 Classes begin.

May 15 Last day (by 1 p.m.) to complete late registration.

Drop/Add Period ends at 1 p.m. Last day to change grading option.

Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring

a financial liability.

May 28 Last day (by 5 p.m.) to apply for Summer 2004 graduation.

May 31 Memorial Day Holiday (University Closed).

Last day (by 1 p.m.) to drop a course with a DR grade.

Last day (by 1 p.m.) to withdraw from the University with a WI grade.

Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.

June 25 Classes end

June 5

June 29

(Grades will be posted on transcripts. However, graduation will not be processed until the end of the

Complete Summer Term.)

Grades due at the Registrar's Office.

July 1 Summer Term A grades available to students via the web and at kiosks.

August 19 Final grades and GPA calculation available by web and at kiosks.

TERM B

JULY 6 - AUGUST 14

March 29 Last day to submit FORM C (Doctoral students planning to graduate in Spring 2005 and master's

students planning to graduate in Summer 2004).

June 7 - 29 Summer Term B registration resumes.

June 28 Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.

Last day to register (by 5 p.m.) without incurring \$100.00 late registration fee.

June 30 - July 1-2 Housing Check-in 9 a.m. to 8 p.m. for Summer Term B.

July 1 International Student Orientation (University Park and Biscayne Bay Campus)

July 4 - 5 Independence Day (University Closed).

July 6 Classes begin.

July 9 Last day to submit FORM D: Request for Thesis/Dissertation Defense.

July 10 Last day (by 1 p.m.) to complete late registration.

Drop/Add Period ends at 1 p.m. Last day to change grading option.

Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring

a financial liability.

July 16 Last day to submit FORM C (Doctoral students planning to graduate in Summer 2005 and Master's

students planning to graduate in Fall 2004).

July 23 Last day to hold thesis/dissertation defense.

July 31 Last day (by 1 p.m.) to drop a course with a DR grade.

Last day (by 1 p.m.) to withdraw from the University with a WI grade.

Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.

August 13 Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.

August 14 Classes end.

August 17 Grades due at the Registrar's Office.

August 19 Grades available to students by web and at kiosks.

TERM C

MAY 10 - AUGUST 14

February 2 First day to apply for Summer 2004 graduation.

March 29 Last day to submit FORM C (Doctoral students planning to graduate in Spring 2005 and master's

students planning to graduate in Summer 2004).

April 5 Registration Information and Access Codes available for Summer 2004 term

April 10 - 16 Official Registration (Degree-Seeking Students only) by appointment time and day.

April 17 - May 4 Open Registration All Students. Web and Kiosk Registration Continuous.

April 26 - May 4 Short Term Tuition Loan Applications available.

May 4 Last day (by 1 p.m.) for students to apply for a Short Term Tuition Loan.

May 4 Last day (by 1 p.m.) to pay tuition and fees to avoid cancellation of enrollment.

Last day to register without incurring a \$100.00 late registration fee.

May 7 International Student Orientation (University Park/Biscayne Bay Campus).

May 7 - 9 Housing check-in 9 a.m. to 8 p.m. for Summer Term C.

May 10 Classes begin.

May 15	Last day (by 1 p.m.) to complete late registration.
	Drop/Add Period ends at 1 p.m.
	Last day to change grading option.
	Last day (by 1 p.m.) to drop courses or withdraw from the University without incurring
	a financial liability.
May 28	Last day (by 5 p.m.) to apply for Summer 2004 graduation.
May 31	Memotial Day Holiday (University Closed).
June 5	Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.
June 26	Last day (by 1 p.m.) to drop a course with a DR grade.
	Last day (by 1 p.m.) to withdraw from the University with a WI grade.
July 4 – 5	Independence Day Observed (University Closed).
July 9	Last day to submit FORM D: Request for Thesis/Dissertation Defense.
July 16	Last day to submit FORM C (Doctoral students planning to graduate in Summer 2005 and
	master's students planning to graduate in Fall 2004).
July 23	Last day to hold thesis/dissertation defense.
August 13	Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.
August 14	Classes end.
August 17	Grades due at the Registrar's Office.
August 19	Grades available to students by web and at kiosks.
August 30	Fall semester classes begin.

Calendar dates are subject to change. Please contact appropriate offices for verification and updates. This calendat includes official University holidays. Faculty are encouraged to make accommodations for students who wish to observe religious holidays. For a listing of teligious holidays you may visit http://www.interfaithcalendar.org. Students should make their requests known at the beginning of the semester.







PRESIDENT **MODESTO A. MAIDIQUE**

Dear Graduate Students:

Welcome to Florida International University. In this Course Catalog we provide a broad overview of our institution, including a great deal of useful information to guide you through your academic experience.

As a leading public research university located in one of the nation's most exciting international cities, FIU offers a tare combination of vast resources, personal attention and affordability. With more than 180 baccalaureate, master's and doctoral degree programs - as well as a nationally renowned faculty and an intimate learning environment - we prepare our students for the leading job markets and the latest technologies. Committed to both quality and access, FIU meets the educational needs of traditional students, as well as the increasing numbers of patt-time students and lifelong learners.

FIU has a nationally renowned full-time faculty, known for their outstanding teaching and cutting-edge research. U.S. News and World Report has ranked FIU among the top 100 public national universities in its annual survey of "America's Best Colleges." FIU has been recognized as one of the top 10 public commuter universities in the nation by Money magazine. Kiplinger's Personal Finance Magazine ranked FIU as the country's 18th best value in public higher education. The University is a member of Phi Beta Kappa, the nation's oldest and most distinguished academic honor society. Our students and faculty continually receive national and international recognition for their achievements.

Graduate education is central to the research core of FIU's mission. Our graduate students, under the expett guidance of our faculty, are making major contributions to the intellectual discourse in many disciplines. Graduates from our professional schools and colleges have become leaders in corporate, non-profit and governmental sectors throughout the world. Whatever your intellectual desires and career objectives may be, you will find the resources and opportunity to fulfill your personal and professional goals at FIU.



DEAN DOUGLAS WARTZOK

Dear Graduate Students:

Florida International University has developed nationally recognized graduate programs in a very short period of time. Graduate programs are only as good as the faculty involved in the programs. Our graduate programs have attained their recognition because of the high quality faculty FIU has hired and kept in the very competitive environment of higher education in the United States. A rich graduate experience needs more than excellent faculty. Much of the learning in graduate education comes from the interaction of peers. Because FIU has been able to attract a very talented group of students to its graduate programs, you have the assurance that you will be stimulated through interactions with your peets at all stages of your graduate program.

The infrastructure from the new laboratories to the computing resources to the libraries mean that you will have the facilities required to conduct your research intensely and expeditiously. It is our intention to provide graduate students with the necessary opportunities so that they can move through their programs in a timely manner, complete as excellent a thesis or dissertation as they are capable of doing, secure the best post-graduate appointments, and succeed in satisfying and rewarding careers.

This University Graduate School catalog provides you with a comprehensive overview of the degrees, programs, and courses offered at Florida International University. It is also a guide to the support services available to help assure your success. Welcome to graduate education at one of the most exciting and dynamic universities in the world.

Bill Proctor

Steven Uhlfelder

Zachariah P. Zachariah, M.D.

UNIVERSITY INFORMATION

STATE BOARD OF EDUCATION

Iim Horne Commissioner of Education Phil Handy Sally Bradshaw Linda Fads T. William Fair Charles Garcia Julia Johnson

FLORIDA BOARD OF GOVERNORS

Carolyn K. Roberts Chair Vice Chair John Dasburg Pamela "Pam" Bilbrey Castell V. Bryant, Ed.D. Miguel De Grandy Rolland Heiser Commissioner Iim Horne Gerri Moll Ioan Wellhouse Newton Ava L. Parker Howard Rock, Ph.D. Peter S. Rummell Chris Sullivan Patrick Sullivan John W. Temple

FIU BOARD OF TRUSTEES

Chair

Adolfo Henriques Betsy Atkins Rafael Calderon Albert Dotson Sr. Patricia Frost Miriam Lopez Clayton Solomon David Parker Sergio Pino Claudia Puig Marcel Escoffier Rosa Sugranes Herbert Wertheim

Chair

EXECUTIVE COUNCIL

Modesto A. Maidique President Provost and Executive Vice President, Mark B. Rosenberg Academic Affairs Paul D. Gallagher Executive Vice President. Business and Finance Vice President, Research Thomas A. Breslin Rosa L. Jones Vice President, Academic Affairs and Undergraduate Studies Howard R. Lipman Vice President, University Advancement John P. McGowan Vice President, InformationTechnology and Chief Information Officer Patricia Telles-Irvin Vice President, Student Affairs and Human Resources

UNIVERSITY MISSION

Florida International University is an urban, multicampus, research university serving southeast Florida, the state, the nation, and the international community. Our mission is to impart knowledge through excellent teaching, promote public service, discover new knowledge, solve problems through research, and foster creativity.

UNIVERSITY VALUES STATEMENT

As an institution of higher learning, Florida International University is committed to:

- · Freedom of thought and expression
- · Excellence in teaching and in the pursuit, generation, dissemination, and application of knowledge
- Respect for the dignity of the individual
- Respect for the environment
- Honesty, integrity and truth
- Diversity
- Strategic, operational and service excellence



THE UNIVERSITY

Florida International University - Miami's public research university is one of America's most dynamic institutions of higher learning. Since opening in 1972, FIU has achieved many benchmarks of excellence that have taken other universities more than a century to reach. FIU, a member institution of the State University System of Florida, was established by the Florida Legislature in 1965. Classes began in September 1972, with 5,667 students enrolled in upper division and graduate programs - the largest opening day enrollment in the history of American higher education. In 1984, FIU received the authority to begin offering degree programs at the doctoral level, and in 1994, the Carnegie Foundation for the Advancement of Teaching classified FIU as a Doctoral I University. This classification was changed in 2000, when FIU became a Doctoral/Research University-Extensive, the highest ranking in the prestigious Carnegie Foundation classification system. The University encourages research experiences for undergraduate students as well as for graduate students.

Modesto A. (Mitch) Maidique is FIU's fourth president. Appointed in 1986, the former Harvard Business School professor and high-tech entrepreneur received his PhD. in Electrical Engineering from the Massachusetts Institute of Technology and was associated with MIT, Harvard, and Stanford for 20 years. President Maidique has built on the sound foundation laid by his predecessors - Charles E. Perry, FIU's first president, appointed in July 1969; Harold B. Crosby, who succeeded in June 1976; and Gregory B. Wolfe, named the third president in February 1979.

FIU has nationally and internationally renowned faculty known for their outstanding teaching and cutting-edge research; students from throughout the United States and more than 130 foreign countries; and alumni who have risen to prominence in every field and are a testament to the University's academic excellence. The University is a member of Phi Beta Kappa, the nation's oldest and most distinguished academic honor society. FIU offers more than 180 baccalaureate, masters and doctoral degree programs in 18 colleges and schools: Accounting, Architecture, Arts and Sciences, Business Administration, Computer Science, Education, Engineering, Health, Health and Urban Affairs, Honors, Hospitality

Management, Journalism and Mass Communication, Music, Nursing, Policy and Management, Social Work and the University Graduate School. The FIU College of Law welcomed its first class in Fall 2002.

FIU has more than 33,000 students, 1,100 full-time faculty, and 90,000 alumni, making it the largest university in South Florida and placing it among the nation's largest colleges and universities. The University has two campuses - University Park in western Miami-Dade County and the Biscayne Bay Campus in northeast Miami-Dade County - and an educational facility at the Pines Educational Center in nearby Broward County. Numerous programs are offered at off-campus locations and online. U.S. News and World Report has ranked FIU among the top 100 public national universities in its annual survey of "America's Best Colleges." FIU has been recognized as one of the top 10 public commuter universities in the nation by Money magazine. Kiplinger's Personal Finance Magazine has ranked FIU as the country's 18th best value in public higher education.

Florida International University emphasizes research as a major component of its mission. It attained Doctoral/Research University-Extensive status, the top Carnegie classification in 2000. In fiscal year 2000, Florida International University ranked 59th nationally in federal research and development (RandD) expenditures for the Social Sciences, 69th in Environmental Sciences, 70th in Computer Sciences, and 72nd in Engineering.

During fiscal year 2002-03, sponsored research funding from outside sources grew for the ninth consecutive year and reached \$75.5 million. This was more than two times what it had been five years before and four times what it had been a decade before. These funds, secured through contracts and grants mostly from federal agencies and also from state agencies, private foundations, and corporations, are used to conduct research, provide supends for graduate students, and improve research facilities.

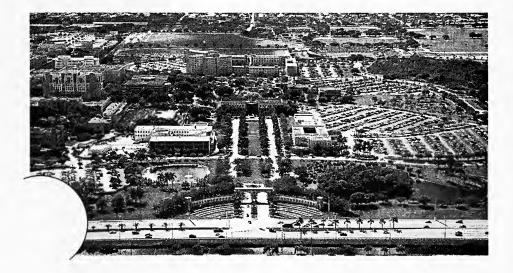
The University Park Campus (UP) is a 344 acre site on the western edge of Miami, the center of a metropolitan area of almost four million people. Apartment-style residence halls, the Golden Panther Arena, a nationally certified environmental preserve, and athletic facilities all contribute to a pleasant collegiate atmosphere on the University Park campus, which is also Florida International University's (FIU) largest campus. FIU's University Park Campus has an impressive campus architecture, lush tropical landscaping, the Martin Z. Margulies Sculpture Park recognized nationally as one of the world's most important collections of sculpture and the largest on a university campus. There is also a state-of-the-art performing arts center, a new fitness center, an expanded university center, a 4,500 seat Golden Panther Sports Arena and a 17,500 seat Football Stadium. University Park also has laboratories, auditoriums, music and art studios, an art museum, an experimental theater and many student organizations including the prestigious Phi Beta Kappa Honor Society. There is a wide variety of clubs on campus to meet the professional, service, athletic, social, and cultural needs of the FIU community.

The Green Library occupying an eight-story, \$30 million building at University Park is the largest in South Florida. FIU's libraries contain more than 1.6 million bound volumes, and more than 9,000 journal subscriptions, including over 2,000 journals in electronic full text, which are complemented by substantial holdings of federal, state, local, and international documents, maps, microforms,

institutional archives, and curriculum materials. In addition to its own holdings, the library has the resources to locate and access holdings at other major universities throughout the state and county. Its on-line computer catalog WebLuis (Library User Information Service) provides information on the collections of all libraries in the State University System of Florida.

Recent additions to the University Park Campus include University House, Everglades Hall, the Paul L. Cejas School of Architecture building designed by Bernard Tschumi, a 100,000 square-foot Health and Life Sciences building, and an 83,000 square-foot Management and Advancement Research Center (MARC). The Graham University Center, currently approximately 222,000 square feet with the recent addition of a Barnes and Noble bookstore, will be enlarged by approximately 31,000 square feet in a \$5.2 million expansion. Plans for the renovation of the Graham Center include the addition of a new food court and the move of the Campus Life offices to a second floor area that will include a balcony overlooking the food court.

University housing available at University Park includes the Panther Hall, Everglades Hall, UP Towers, and the University Apartments. Housing staff will assist students in selecting living accommodations that meet their particular requirements. Housing for married students is available on a limited basis. Graduate housing is also limited and applications should be submitted as early as possible.



BISCAYNE BAY CAMPUS



The Biscayne Bay Campus of Florida International University is located on 200 acres on the waterfront of Biscayne Bay and has an enrollment in excess of 8,000 students. The campus is headquarters for academic programs in Hospitality Management, Journalism and Mass Communication, Nursing, and Creative Writing. Certain other programs in Arts and Sciences, Business Administration, Education, and Health and Urban Affairs are also offered (for specific degree programs please refer to Academic Programs in this catalog).

The Biscayne Bay Campus serves as host to the Institute for Life Long Learning, the HRS-Children and Families Professional Development Center, the Institute of Government, the Institute for Public Opinion Research, Center on Aging, and the Roz and Cal Kovens Conference Center. The Kovens Conference Center is a high-tech, state-of-the-art conference facility located on the waterfront of Biscayne Bay.

Apartment style residential housing on the Biscayne Bay Campus accommodates 276 students. Student life is enhanced through the provision of programs and services offered in the Wolfe University Center through Student Affairs, which is the focal point of social and cultural activity outside of the classroom. The campus also provides a Student Health Care and Wellness Center.

The Campus is administered from the Office of the Vice Provost of Biscayne Bay Campus. This office includes representatives from the Divisions of Academic Affairs, Business and Finance, Student Affairs, Human Resources, and University Relations.

FIU BROWARD-PINES CENTER

Florida International University has brought higher education closer to home for thousands of South Broward residents through its Pines Center at the Academic Village in Pembroke Pines. Classes are held in a state-of-the-art 90,000 square foot facility that includes spacious classrooms, computer labs, case study rooms, a student lounge and a 450-seat auditorium. Sharing the Academic Village with Broward Community College, the City of Pembroke Pines Charter High School and Southwest Regional Library, the FIU Broward-Pines Center is part of an innovative educational complex.

Presently, select programs at the bachelor's, master's and doctoral level are being offered by the College of Arts and Sciences, College of Business Administration, College of Education, College of Engineering, and the College of Health and Urban Affairs. For specific degree programs, please refer to the "Broward Programs" link on the University home page, as well as the relevant pages in this catalog. In addition to degree-seeking programs, the College of Continuing and Professional Studies offers several non-credit courses.

Students attending the FIU Broward—Pines Center benefit from state-of-the-art computer labs and access to the resources of both the FIU libraries and the Broward County Southwest Regional Library. The Student Government provides many afternoon and evening opportunities for students of all ages to socialize and network. Career development services are also provided. For additional informtion on the FIU Broward—Pines Center, visit www.fiu.edu/~broward or call 954-438-8600.



ACCREDITATIONS

All academic programs of Florida International University are approved by the State Board of Education and the FIU Board of Trustees. The University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) (1866 Southern Lane, Decatur, Georgia 30033-4097; 404-679-4501) to award the baccalaureate, masters, and doctoral degrees. SACS reaffirmed FIU's accreditation on December 5, 2000. Degree programs at FIU are accredited or approved by the appropriate specialized accreditation agency, or are pursuing full accreditation or approval. To obtain information about the specialized accreditation agencies, their criteria and review process, contact the Chairperson/Director of the respective degree program. The FIU degree programs and the respective professional accrediting agencies are listed in alphabetical order below.

ACCOUNTING

Association to Advance Collegiate Schools of Business (AACSB) International

ARCHITECTURE

National Architectural Accrediting Board (NAAB)

ART AND ART HISTORY

National Association of Schools of Art and Design (NASAD)

ART MUSEUM

American Association of Museums

BUSINESS

Association to Advance Collegiate Schools of Business (AACSB) International

CHEMISTRY

American Chemical Society (ACS) (Certified)

COMPUTER SCIENCE

Commission of the Computing Science Accreditation Board (CSAB)

CONSTRUCTION MANAGEMENT

American Council for Construction Education (ACCE)

DIETETICS AND NUTRITION

Commission on Accreditation for Dietetics Education (CADE)

EDUCATION

National Council for Accreditation of Teacher Education (NCATE)

ENGINEERING

Accreditation Board for Engineering and Technology (ABET)

HEALTH INFORMATION SYSTEMS

American Health Information Management Association (AHIMA)

HEALTH SERVICES ADMINISTRATION

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

IOURNALISM AND MASS COMMUNICATION

Accrediting Council on Education in Journalism and Mass Communication

LANDSCAPE ARCHITECTURE

Landscape Architectural Accreditation Board (LAAB)

MUSIC

National Association of Schools of Music

NURSING

Florida Board of Nursing National League for Nursing Accrediting Commission (NLNAC)

OCCUPATIONAL THERAPY

Council for Occupational Therapy Education

PARKS AND RECREATION

National Recreation and Parks Association/American Association For Leisure and Recreation (NRPA/AALR)

PHYSICAL THERAPY

Commission on Accreditation in Physical Therapy Education (CAPTE)

PUBLIC ADMINISTRATION

National Association of Schools of Public Affairs and Administration (NASPAA)

PUBLIC HEALTH

Council on Education for Public Health (CEPH)

SOCIAL WORK

Council on Social Work Education (CSWE)

THEATRE AND DANCE

National Association of Schools of Theatre (NAST)



UNIVERSITY GRADUATE SCHOOL

Douglas Wartzok Ruben D. Jaen M.O. Thirunarayanan Dean Associate Dean Associate Dean

The University Graduate School has oversight of post-baccalaureate programs in all colleges and schools with the exception of the J.D. program in the College of Law. Working with the Graduate Faculty and the Graduate Council of the Faculty Senate, the University Graduate School develops and implements the policies and procedures that guide graduate education at the University.

Graduate Admissions is usually the first point of contact entering graduate students have with the University Graduate School. Students are admitted to the University Graduate School upon recommendation of the graduate program to which they have applied.

The University Graduate School oversees the university-wide fellowship programs: Presidential Fellowships, Presidential Enhanced Assistantships, and Dissertation Year Fellowships. The University Graduate School also works with the graduate programs to provide support to Graduate Assistants. The stipend for Graduate Assistants is provided by the graduate program, within guidelines set by the University Graduate School, and the accompanying tuition waivers are provided by the University Graduate School.

Graduate students completing non-thesis master's degrees typically have little contact with the University Graduate School between admission and the certification of completion of degree requirements unless they need to request an exception to one of the rules or regulations governing graduate education. However, students completing thesis master's degrees and all students in doctoral programs have more contact with the University Graduate School as they obtain University Graduate School approval for their thesis or dissertation committee, thesis or dissertation proposal, thesis or dissertation defense announcement, and final thesis or dissertation.

The University Graduate School works with the Graduate Students Association to help enrich the total graduate student experience: academically, socially and culturally. The University Graduate School serves as an ombudsman for graduate students.

All graduate students are encouraged to visit the University Graduate School (PC 236), or call 305-348-2455, or log on to the website, www.fiu.edu/ugs, to learn the answers to questions regarding any phase of their graduate education.

UNIVERSITY PARK PROGRAMS

SCHOOL OF ARCHITECTURE

www.fiu.edu/soa

Master of Architecture

Master of Landscape Architecture

COLLEGE OF ARTS AND SCIENCES

www.fiu.edu/orgs/-casdean

Master in the Art of Teaching Music

MASTER OF ARTS IN:

African-New World Studies

Comparative Sociology

Economics

English

History

International Studies

Latin American and Caribbean Studies

Liberal Studies

Linguistics

Political Science

Religious Studies

Spanish

MASTER OF FINE ARTS IN:

Creative Writing

Visual Arts

Master in Music

MASTER OF SCIENCE IN:

Biology

Chemistry

Computer Science

Earth Sciences

Environmental Studies

Environmental and Urban Systems

Forensic Science

Mathematical Sciences

Psychology

Physics

Statistics

OCTOR OF PHILOSOPHY IN:

Biology

Chemistry

Computer Science

Earth Sciences

Economics

History

International Relations

Physics

Political Science

Psychology

Comparative Sociology

Spanish

COLLEGE OF BUSINESS ADMINISTRATION

cba.fiu.edu

Master of Accounting

Master of Business Administration

Master of International Business

MASTER OF SCIENCE IN:

Finance

Management Information Systems

Taxation

Doctor of Philosophy in Business Administration

COLLEGE OF EDUCATION

coeweb.fiu.edu

MASTER IN THE ART OF TEACHING:

Art Education (K-12)

Biology Education (6-12)

Chemistry Education (6-12)

Elementary Education

English Education (6-12)

French Education (K-12)

Mathematics Education (6-12)

Physics Education (6-12)

Social Studies Education (6-12)

Spanish Education (K-12) Special Education/Varying Exceptionalities (K-12)

MASTER OF SCIENCE IN:

Administration and Supervision of Vocational Education

Adult Education

Art Education (K-12)

Counselor Education

Early Childhood Education

Educational Leadership

Elementary Education

English Education (6-12)

Exercise and Sports Sciences

Home Economics Education

Human Resource Development

International Development Education

Mathematics Education (K-12)

Modern Language Education (K-12)

Parks and Recreation Management

Physical Education

Reading Education (K-12)

Science Education (6-12)

Social Studies Education (6-12)

Special Education

Teaching English to Speakers of Other Languages (TESOL)

Technology Education

Urban Education

Vocational Industrial Education

EDUCATIONAL SPECIALIST IN:

Curriculum and Instruction

Educational Leadership

School Psychology

DOCTOR OF EDUCATION IN:

Adult Education and Human Resource Development

Curriculum and Instruction

Educational Administration and Supervision

Exceptional Student Education

Higher Education

Doctor of Philosophy in Curriculum and Instruction

COLLEGE OF ENGINEERING

www.eng.fiu.edu

MASTER OF SCIENCE IN:

Biomedical Engineering

Civil Engineering

Computer Engineering

Construction Management

Electrical Engineering

Engineering Management

Environmental Engineering

Environmental and Urban Systems

Industrial and Systems Engineering Mechanical Engineering

DOCTOR OF PHILOSOPHY IN:

Civil Engineering

Electrical Engineering

Industrial and Systems Engineering

Mechanical Engineering

COLLEGE OF HEALTH AND URBAN AFFAIRS

chua.fiu.edu

MASTER OF SCIENCE IN:

Criminal Justice

Dietetics and Nutrition

Nursing

Occupational Therapy

Physical Therapy

Master of Health Services Administration

iviaster of Freatti Services Administrat

Master of Public Administration

Master of Public Health

Master of Social Work

DOCTOR OF PHILOSOPHY IN:

Dietetics and Nutrition

Public Administration

Social Welfare

BISCAYNE BAY PROGRAMS

COLLEGE OF ARTS AND SCIENCES

www.fiu.edu/orgs/casdean/bbcas

Master of Fine Arts in Creative Writing

MASTER OF ARTS IN:

African-New World Studies

English

Master of Science in Psychology

Doctor of Philosophy in Psychology

COLLEGE OF FDUCATION

coeweb.fiu.edu

Master of Science in Urban Education

COLLEGE OF HEALTH AND URBAN AFFAIRS

chua.fiu.edu

Master of Science in Nursing

Master of Health Services Administration

Master of Public Administration

Master of Public Health

Master of Social Work

Doctor of Philosophy in Public Administration

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

hospitality.fiu.edu

MASTER OF SCIENCE IN:

Hospitality Management

Tourism Studies

SCHOOL OF JOURNALISM AND MASS COMMUNICATION

www.fiu.edu/%7Ejournal

Master of Science in Mass Communication

FIU BROWARD-PINES CENTER PROGRAMS

COLLEGE OF BUSINESS ADMINISTRATION

cba.fiu.edu

Master of Business Administration

COLLEGE OF EDUCATION

coeweb.fiu.edu

MASTER OF SCIENCE IN:

Adult Education

Educational Leadership

Human Resource Development

Reading

DOCTOR OF EDUCATION IN:

Adult Education and Human Resource Development

Curriculum and Instruction

Higher Education

COLLEGE OF ENGINEERING

www.eng.fiu.edu

Master of Science in Construction Management

COLLEGE OF HEALTH AND URBAN AFFAIRS

chua.fiu.edu

Master of Science in Nursing Master of Health Services Administration

Master of Social Work

Primary Location for all Broward County Programs: FIU Broward-Pines Center Programs are located at the Pines Center in Pembroke Pines

EVENING AND WEEKEND DEGREE PROGRAMS

COLLEGE OF ARTS AND SCIENCES

www.fin.edu/orgs/casdean MASTER OF ARTS IN:

African-New World Studies

Economics

Liberal Studies

Political Science

Religious Studies

Spanish

Master in the Art of Teaching Music

MASTER OF SCIENCE IN:

Chemistry

Earth Sciences

Environmental Studies

Forensic Science

Mathematics

DOCTOR OF PHILOSOPHY IN:

History

Spanish

COLLEGE OF BUSINESS ADMINISTRATION

cba.fiu.edu

Executive Master of Business Administration

Master of Accounting

Master of Business Administration

Master of International Business MASTER OF SCIENCE IN:

ASTER OF SC

Finance

Information Systems

Taxation

Doctor of Philosophy in Business Administration

COLLEGE OF ENGINEERING

www.eng.fiu.edu

MASTER OF SCIENCE IN:

Civil Engineering

Computer Engineering

Construction Management

Electrical Engineering

Engineering Management Industrial and Systems Engineering Mechanical Engineering

COLLEGE OF HEALTH AND URBAN AFFAIRS

chua.fiu.edu

Master of Health Services Administration

Master of Public Administration

Master of Public Health

MASTER OF SCIENCE IN:

Criminal Justice

Dietetics and Nutrition

Nursing

Occupational Therapy

Master of Social Work

SCHOOL OF JOURNALISM AND MASS COMMUNICATION

www.fiu.edu/%7Ejournal

Master of Science in Mass Communication

GRADUATE CERTIFICATE PROGRAMS

Graduate Certificates are offered to students with bachelor's degrees who wish to obtain advanced education in a particular area of concentration, but do not necessarily want to commit to a master's degree. Successful completion of a Graduate Certificate is entered on the student's transcript. Some or all of the courses taken in a Graduate Certificate can often be applied to a master's degree. In addition to the Graduate Certificates offered through the University Graduate School, non-credit Professional Certificates are offered through the College of Continuing and Professional Studies.

COLLEGE OF ARTS AND SCIENCES

www.fiu.edu/orgs/casdean GRADUATE CERTIFICATES IN:

African-New World Studies

Geographic Information Systems

Latin American and Caribbean Studies

COLLEGE OF EDUCATION

coeweb.fiu.edu

GRADUATE CERTIFICATES IN:

Educational Leadership

Emotional Disturbance

Health Occupations Education

Mental Retardation

Reading and Language Arts

School Guidance and Counseling

Specific Learning Disabilities

COLLEGE OF HEALTH AND URBAN AFFAIRS

chua.fiu.edu

GRADUATE CERTIFICATES IN:

Clinical Practice (Post-MSW)

Environmental Health

Gerontology

Health Promotion

Health Services Administration

Human Resource Policy and Management Justice Administration and Policy Making

Law and Criminal Justice

Nurse Practitioner Certificate Nursing Administration Occupational Therapy Public Management

SCHOOL OF JOURNALISM AND MASS COMMUNICATION

www.fiu.edu/%7Ejournal GRADUATE CERTIFICATES IN:

Integrated Communications: Advertising and Public Relations Spanish Language Journalism: Investigative Reporting Student Media Advising



GRADUATE ADMISSIONS

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

MINIMUM REQUIREMENTS FOR ADMISSION INTO GRADUATE PROGRAMS

Applicants to a graduate program of the University must meet the minimum standards set forth by the University, and when applicable, additional requirements set by each department for admission to a graduate program. Applicants must check the individual departmental requirements before submitting their applications.

A student seeking admission into a graduate program offered by the University must have a bachelor's degree or equivalent from a regionally accredited institution or, in the case of foreign students, from a well established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country. The applicant must submit official copies of all transcripts and test scores to P.O. Box 659004, Miami, F.L. 33265-9004.

The applicant should have a minimum of a "B" average in upper level work, or a graduate degree from an accredited institution.

Appropriate nationally-normed examinations are required for all Ph.D. programs. Scores must be at or above the 60th percentile (e.g., 1120 combined Verbal and Quantitative on the GRE or 570 composite on the GMAT).

Master's degree programs and professional doctoral degree programs individually determine admission requirements with respect to requiring nationally-normed examinations and the required scores with the proviso that if nationally-normed examinations are required, scores must be at or above the 40th percentile (e.g. 1000 combined Verbal and Quantitative on the GRE or 500 composite on the GMAT). Individual units may place greater weight on either the verbal or quantitative portion of the examination and are encouraged to set higher requirements than University minimums.

Admissions at the graduate level are competitive and meeting minimum program requirements does not guarantee admission.

An applicant who fails to meet these criteria may seek admission via an exception to the admissions standards.

APPLICATION PROCESS

Students interested in applying for admission into a graduate degree program can currently submit their applications either online or via conventional mail. The option to submit applications via conventional mail will be phased out and will no longer be available after January 2004.

SUBMITTING ONLINE APPLICATIONS FOR GRADUATE ADMISSION

Students with Internet access can apply online by visiting FIU's website at www.fiu.edu/gradadm for applications and instructions.

A valid credit card is required for submitting online applications. A \$25.00 non-refundable fee (U.S. Dollars) will be charged for each online application.

SUBMITTING APPLICATIONS FOR GRADUATE ADMISSION VIA CONVENTIONAL MAIL

FIU uses a common institutional application form for all graduate programs. This application can be downloaded from http://www.flu.dugradadm or requested from Florida International University, Graduate Admissions Office, P.O. Box 659004, Miami, FL 33265-9004. A \$30.00 non-refundable application fee (U.S. Dollars) made payable to Florida International University must accompany applications submitted via conventional mail.

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

READMISSION

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

Application Deadlines for Domestic Students SEMESTER ADMISSION IS SOUGHT APPLICATION DEADLINE

Fall June 1st
Spring October 1st
Summer March 1st

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

Note: Individual programs may have deadlines earlier than the University deadlines. Applicants should check with the program to which they are seeking admission to determine the application deadline.

TRANSFER OF GRADUATE CREDIT FROM OTHER INSTITUTIONS

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

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

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

- a) the student received a grade of 3.0 or better on a 4.0 scale
- b) the course was taken at an accredited institution
- c) the course was relevant, as judged by the admissions committee of the department or program, to the graduate program in which the student is accepted
- d) the course is listed on an official transcript received by the Graduate Admissions Office
- e) the course will not be older than six years at the time of receipt of a master's degree or nine years at the time of receipt of a doctoral degree (does not apply to credits earned as part of a completed graduate degree program)

Note: Students are advised to verify this information with the appropriate Graduate Program Director.

ACADEMIC RECORDS

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

ADMISSION OF INTERNATIONAL STUDENTS

Foreign graduate applicants are accepted subject to space and fiscal limitations. In addition to the general University admissions requirements, foreign applicants must be academically eligible for further study in their own country and must demonstrate proficiency in the English language by presenting a minimum score of 550 on the paper-based version, or a minimum score of 213 on the computer-based version, of the Test of English as a Foreign Language (TOEFL). However, some departments may require higher TOEFL scores. Applicants who hold an undergraduate or graduate degree from an institution within the United States or other English speaking countries are not required to submit TOEFL scores. The applicant must check the individual departmental requirements. For TOEFL information, visit the following URL: http://www.toefl.org/.

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

Application Deadlines for International Students

Due to the additional processing time needed, international students should submit their applications and supporting documents much earlier than students who are U.S. Citizens or residents. It is recommend that all international students comply with the following application deadlines:

SEMESTER ADMISSION IS SOUGHT

Spring Summer APPLICATION DEADLINE

May 1st September 1st February 1st Note: Individual programs may have deadlines earlier than the University deadlines. Applicants should check with the program to which they are seeking admission to determine the application deadline.

Tuition for International Students

An international student is considered a non-resident and is assessed

ANNUAL ESTIMATE OF COSTS FOR INTERNATIONAL GRADUATE STUDENTS

Single Student (18 semester hrs)

Tuition and Fees¹ \$14,098
Maintenance³ \$13,524
Books and Supplies \$ 792

TOTAL

Medical Insurance

\$ 29,180

\$ 766

Tuition and fees are subject to change.

Fees include the Student Health Fee (\$54 per semester), the Athletic Fee (\$10.00 per semester) and the Transporation Access Fee (\$47.90 per semester). Amounts shown reflect 9 graduate credit hours during Fall and Spring terms only.

²Maintenance is estimated at \$1,127.00 per month to cover room, board, clothing, transportation, and incidentals. This cost is for twelve months.

3All international students are required to carry medical insurance.

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 Graduate Admissions Office. A Certificate of Eligibility (Form I-20A) will be issued once the applicant has been found admissible to the University.

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

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

A married student should plan on an additional \$6,000 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than \$4,000 for each child.

MEDICAL INSURANCE

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

FULL-TIME ENROLLMENT

Non-immigrant alien students in F-1 visa status are required by United States immigration regulations to be enrolled full-time, except for the Summer Terms, and to make satisfactory progress toward the degree program in each term; otherwise the student's immigration status will be jeopardized. Full-time graduate enrollment is defined as a minimum of nine semester hours during Fall and Spring terms and six credits during Summer terms. Doctoral students who have reached candidacy or master's students who have completed all requirements except for the thesis, and have an approved thesis proposal on file in the University Graduate School, are considered full-time when registered for three credits per term.

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

EMPLOYMENT

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

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

- 2) off-campus employment: F-1 students may request off-campus employment under very limited conditions and only after maintaining F-1 status for at least one full academic year. Off-campus employment opportunities are not readily available, and students should not rely on off-campus employment as a source of income to finance their studies.
- Practical training: F-1 students may request optional practical training employment to accept jobs related to their studies. Students usually pursue practical training employment after completion of degree requirements, although in some cases practical training may be authorized prior to completion of studies. Since practical training employment is limited to one year of full-time employment for each degree level, students cannot rely on it as a source of income to finance their studies.

Note: An international student will not be granted admission to the University until all academic and non-academic requirements have been met. Under no circumstances should a student come to the University without having received the official Letter of Admission and the SEVIS Form 1-20

All correspondence and document submissions should be directed to: Graduate Admissions Office, Florida International University, P.O. Box 659004, Miami, Florida 33265-9004

CREDIT FOR NON-COLLEGE LEARNING

Graduate credit will not be awarded for life experiences.

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

Not more than 10 semester hours of a 30 semester hour master's degree, nor 15 semester hours of a 60 semester hour master's degree, may be so earned.

TRAVELING SCHOLAR PROGRAM

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



TUITION AND FEES

FEES

Registration and tuition fees are established by the Board of Trustees as required by the Florida Legislature. These fees are subject to change without notice. The currently authorized fees for academic year 2003-2004 are:

PER CREDIT HOUR TUITION AND FEES

Per Credit Tuition and Fees

	Florida Resident	Non-Florida Resident
Graduate	\$201.51	\$770.58
Per Semester Fees		
Intercollegiate Athletics	\$10.00	\$10.00
Student Health Services	\$54.00	\$54.00
Transportation Access	\$47.90	\$47.90

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

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

FEE WAIVERS

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

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

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

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

Note: 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 Biscayne Bay Campus ACI 140. Broward students may pay by mail or at the Cashier's Office at University Park or Biscayne Bay Campus. Night drop boxes outside the Cashier's Offices are available 24 hours a day for fee payments by check or money order through the last day to pay fees. Payment is also accepted by mail. The University is not responsible for cash left in the night drop or sent through the mail. Failure to pay fees by the established deadlines will result in students being dropped from all courses. See Fee Liability below.

Fees may also be paid by credit card through the telephone or the web through Phone Charge Inc. Simply call 1-877-348-7297 or go to the web at www.paybyinternet.com. Please note that a service fee of \$28 will added to credit card charge by Phone Charge.

Late Registration Fee

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

Late Payment Fee

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

Financial Aid Students

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

Fee Liability

Students are liable for all fees associated with all courses in which they are registered at the end of the drop/add period. The fee payment

deadline is published in the official University calendar. If fees are not paid in full by the published dates, students will be dropped from all classes and any money paid will be lost.

Note: Registration is not complete until all fees are paid in full.

Reinstatement of Classes

Appeals for reinstatement of registration for classes dropped for fiscal reasons must be filed in writing on the prescribed form with the Cashier's Office by the time specified on the cancellation notice. 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. All reinstatement activity, including fee payment, must be completed by the date on the cancellation notice. All students whose registrations have been reinstated will be assessed a late payment fee. If the late registration fee is applicable it will also be assessed.

Application Fee

A non-refundable fee of \$30 shall accompany each paper-based application for admission to the University. A non-refundable fee of \$25 will be charged for all online applications.

PARKING RULES AND REGULATIONS

All persons who park vehicles on the university's campuses shall register their vehicle(s) with the department of Parking and Traffic, obtain a

decal or permit, and display the decal or permit, as prescribed by the Parking Rules and Regulations. The University assumes no liability for vehicles parked or operated on University property. The issuance of a decal or permit does not guarantee a place to park.

Transportation Access Fee

All enrolled students will pay a Transportation Access Fee each semester. The fee will appear on the Student Fee Schedule. This fee will be assessed as follows:

Fall Semester	\$47.90 + tax
Spring Semester	\$47.90 + tax
Summer A, B, or C	\$43.60 + tax

Students must provide the following information to the Department of Parking and Traffic to obtain a parking decal: social security number, proof of current class registration, and current vehicle registration. All decals must be permanently affixed to the outside of the vehicle, either on the left side of the rear bumper or lower left corner, on the outside of the rear window. All decals are valid until the expiration date indicated on the decal or permit. A duplicate hang tag will be issued upon request for an additional charge of \$10.00 + tax. This hang tag is valid only for the vehicle under which it is registered. Hang tags are available to persons who have purchased an original decal for the current semester or year. The hang tags are for additionally owned vehicles and for situations where the original decal must be replaced due to an accident, maintenance, etc.



Housing

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

Disabled

Any person who has been certified in accordance with Sections 320,084, 320,0848, or 320,0842, Florida Statutes, and has been issued a Disabled placard by the Department of Motor Vehicle Bureau shall obtain and display a university parking decal in the classification which would otherwise be appropriate.

Towing and Impoundment

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

Rules and Regulations Pamphlets

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

LIBRARY FINES

Per book per library hour	\$.25
Maximum fine per book	\$5.00
Lost book fine	\$51.15

Note. All fees are subject to change as permitted by law. Additional fees may be added and special purpose fees may be assessed in some instances.

CHECKS

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

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

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

REFUNDS

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

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

In the following exceptional circumstances, a full refund of total fees paid will be made upon presentation of the proper documentation:

- Death of a student or immediate family member (parent, spouse, child or sibling). Death certificate required.
- · Involuntary call to military service. Copy of orders required.
- Illness of student of such severity or duration to preclude completion of courses. Confirmation by a physician required.

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

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

PAST DUE ACCOUNTS

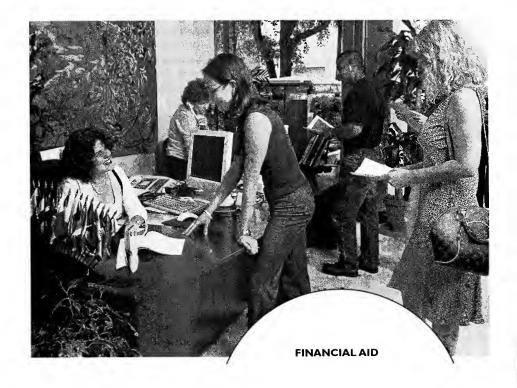
Delinquent accounts are sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas.

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

The University reserves the right to assign any past due account to an agency for collection. When an account has been assigned, the collection agency fee will be added to the University charges for collection at the current contract rate.

DEADLINES

Students are reminded that deadlines are strictly enforced. The University is not able to grant credit or to extend the fee payment period beyond the time set in its official calendar. The University does not have the authority to waive late fees unless it has been determined that the University is primarily responsible for the delinquency or that extraordinary circumstances warrant such waiver. The University has no authority to extend deadlines for individual students beyond those set by the official calendar.



WHAT IS FINANCIAL AID?

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

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

APPLYING FOR ASSISTANCE

Applications for financial assistance are available in January for the following academic year which begins in August. The Free Application for Federal Student Aid (FAFSA) is the form used to apply for most types of financial assistance. FIU's school code 009635 is required when completing the FAFSA. The FAFSA available in two forms: electronic and paper. To complete the FAFSA available in two forms: electronic and paper. To complete the FAFSA electronically via the Internet the web site address is: www.fafsa.ed.gov and the paper form is available from FIU's Financial Aid Office. Financial Aid applications are not reviewed until ALL documents required to complete the file are received in the Financial Aid Office.

Students whose files are completed accurately by the priority deadline of March 1st will receive priority consideration for the following year for limited Federal, State and institutional funds. Files completed after this deadline will be processed in order of completion date. Most required documents for file completion are available through the Financial Aid Office web page: www.fiu.edu/orgs/finaid.

ADMISSION

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

SUMMER ASSISTANCE

Student loans are the primary source of assistance for summer enrollment. Request forms for summer assistance are available in February each year.

ELIGIBILITY CRITERIA

To qualify for most need-based financial assistance, students must meet the following basic eligibility requirements:

- demonstrare financial need;
- be a U.S. citizen or eligible non-cirizen;
- be registered with Selective Service, if required;
- not be in default on a loan, or owe a repayment on Tirle IV aid received at any institution;

- · be enrolled at least half-time in an eligible program of study;
- maintain satisfactory academic progress.

Additional requirements may apply depending on the aid programs for which a student is applying.

DETERMINING FINANCIAL NEED

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

AWARDING PROCEDURES

Award decisions for new students who complete their financial aid application by the priority deadline will be made by April 15.

A financial aid package may consist of a combination of grants, loans, and work opportunities. Other sources of assistance such as merit awards and private and institutional scholarships will be taken into consideration when preparing the award. The Financial Aid Office makes a limited number of awards to graduate students who have demonstrated financial need through the Free Application for Federal Student Aid (FAFSA).

SOURCES OF ASSISTANCE

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

Graduate Assistantships

Graduate students pursuing a master's or doctoral degree may qualify for assistantships/fellowships and other awards offered through individual graduate academic units. Applicants should contact the Graduate Program Director in the appropriate department.

Financial Aid Services

- Financial Aid Counseling: A Financial Aid Administrator is available on a walk-in basis to assist students with special problems, technical questions, exceptions, etc.
- Web and Voice System Access: Students may obtain information on the status of their application through the Financial Aid Office webpage at www.fiu.edu/orgs/finaid or by calling the Financial Aid Office Voice Response System (VRS), 305-348-1500. The student's FIU PIN# is required to access personal information.
- E-Mail Access: Students may also communicate with the Financial Aid Office electronically at the following e-mail: finaid@fiu.edu

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

UNIVERSITY GRADUATE SCHOOL RULES AND REGULATIONS

CLASSIFICATION OF STUDENTS

Students are classified as degree-seeking students and non-degree-seeking students.

Degree-Seeking Students

Degree-seeking students are students who have been admitted into a degree program, but have not completed the requirements for the degree.

Non-Degree-Seeking Students

Non-degree-seeking students may be either affiliated with a College or School, or be unaffiliated. Students who are unaffiliated ate limited to taking one semester of courses at the University. Affiliated students must be approved by a College or School and may take up to 12 hours of coursework as a non-degree-seeking student. Higher allowable course hours apply to students accepted in Graduate Certificate or Advanced Diploma programs.

The following regulations apply to non-degree-seeking students:

- 1) Non-degree-seeking 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 to be admitted in the future as a regular, degreeseeking student. Credits earned as a non-degree-seeking student will not be counted toward a degree at the University unless such a student subsequently applies for regular admission and is accepted as a degree-seeking student.
- Registration is permitted only 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 when degree-seeking students generally register for classes.
- 3) No more than 12 graduate level semester hours earned as a non-degree-seeking student may be counted toward a degree. The acceptance of such credit must be recommended by the graduate program director and approved by the Dean of the University Graduate School.
- 4) Non-degree-seeking students will not be allowed to register for more than one term without obtaining admission into 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 for courses.
- 5) Applicants who are denied admission to the University will not be allowed to register for courses as non-degree-seeking students for a period of one year without obtaining admission into a formal certificate program.
- 6) Immigration regulations prevent most foreign nationals from enrolling in courses without being admitted into a formal degree or certificate program, depending on the type of visa that they hold. International students should contact the Office of International Student and Scholar Services for further information (www.flu.edu/-isss).

Affiliated Students

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

Graduate Certificate Students

This category includes students who have been accepted into a specific Graduate Certificate program. Certificate programs are subject to all university regulations.

ACADEMIC DEGREE REQUIREMENTS MASTER'S DEGREE

Course Requirements

Programs leading to a master's degree will normally require at least 30 credit hours of non-thesis course work. Masters programs normally include courses at the 5000 and 6000 levels. A maximum of 6 credits of advanced undergraduate courses (4000 level) may be included in a masters degree program if they are needed in order to fulfill program requirements. No course counted toward a student's undergraduate degree may be included in that student's masters degree program.

Thesis Requirements

Thesis committees must have a minimum of three members, at least two of whom are from the unit offering the degtee. All FIU faculty who are members of the thesis committee must be members of the Graduate Faculty. All committees appointments must be approved by the Dean of the University Graduate School.

A thesis proposal must be approved by the University Graduate School at least one semester prior to the date of graduation.

Once enrollment in thesis credits is initiated, continuous registration for at least 1 credit thesis hour each semester (including the summer term) is required until the thesis requirement is fulfilled. During the academic year, international students must maintain full-time enrollment.

Time Limits

All requirements, including the successful defense of a thesis where required, must be completed within six years of first enrollment in the masters program.

Graduation Requirements

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

- 1) Earned an overall average GPA of 3.0 in all courses in the graduate degree program.
- 2) Recommended by the faculty of the College or the School.
- Certified by the Dean of the University Graduate School that all requirements for the degree being sought have been completed.

Masters students who have been approved by their school or college may participate in the commencement ceremonies

DOCTORAL DEGREE

Course Requirements

Programs leading to a doctoral degree require at least 90 credit hours beyond the bachelor's degree. These shall include a minimum of:

- 1) 30 credit hours earned in academic courses which are part of the doctoral program. Doctoral programs normally include courses at the 6000 level and above. Courses at the 5000 level may be included in a doctoral degree program in appropriate cases.
- 2) 24 dissertation credit hours taken at this University. A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination and being advanced to candidacy. Dissertation credits taken before advancement to candidacy will not be counted toward the 24 dissertation credit minimum required for the degree.

Dissertation Requirements CANDIDACY

A student is admitted to candidacy upon successfully completing all required coursework and passing the candidacy examination. The student's written request for candidacy must be approved by his or her major professor and forwarded to the program director, the unit dean, and then to the Dean of the University Graduate School.

Each candidacy examination must be prepared and graded by a committee consisting of a minimum of three faculty of the academic unit offering the degree. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors such as the completion of additional coursework or the preparation of extra research projects.

Students must be informed in writing of the results of their performance on the examinations within 30 days of the examination date. If the student fails the candidacy examination the committee, at its discretion, may provide for reexamination at a mutually satisfactory time but no more than one year from the original date of the examination. Passing the candidacy examination is requisite to continuing in the graduate program. Students who fail the candidacy examination twice will be dismissed from the doctoral program.

After a doctoral student is admirted to candidacy, continuous registration for at least 3 credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled.

DISSERTATION COMMITTEE

Dissertation committees must have a minimum of four members: at least three of whom are from the unit offering the degree and one of whom is from another academic unit at FIU. All FIU faculty who are members of the dissertation committee must be members of the Graduate Faculty and the chair of the dissertation committee must hold Dissertation Advisor Status. All committees appointments must be approved by the Dean of the University Graduate School.

DISSERTATION PROPOSAL

A dissertation proposal must be approved by the University Graduate School at least one year prior to the date of graduation.

Time Limits

All requirements, including the successful defense of a dissertation, must be completed within nine years of first enrollment in the doctoral program.

Graduation Requirements

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

- 1) Earned an overall average GPA of 3.0 in all courses in the graduate degree program.
- 2) Completed and defended successfully a doctoral dissertation.
- 3) Recommended by the faculty of the College or the School.
- 4) Submitted to the library two final, approved copies of the dissertation and paid required microfilming costs.
- 5) Certified by the Dean of the University Graduate School that all requirements of the degree being sought have been completed. Doctoral students must have completed all requirements for the degree in order to participate in the commencement ceremonies.

CERTIFICATE PROGRAMS

Graduate Certificates require 15 to 18 hours of graduate credit. At least six of the hours must be in core courses taken by all individuals obtaining a given Graduate Certificate.

All the credits earned in a Graduate Certificate Program may be used in a master's degree program provided the student is admirted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

At the discretion of the departmental graduate committee, or equivalent, students holding a bachelor's degree who have completed 12 Graduate Certificate credits with a 3.25 or better GPA may be admitted to a master's degree program without taking the GRE or GMAT examination even if the student has an undergraduate GPA between 2.75 and 3.0. These students need to apply and be admitted before completing any additional hours in order to have those additional hours counted both for their Graduate Certificate and for their master's degree.

In all cases the Graduate Program Director will evaluate whether ot not the Graduate Certificate credits are acceptable in that particular graduate program.

CHANGE OF GRADUATE DEGREE PROGRAM

A fully admitted student may apply to change graduate degree programs without paying an additional application fee. In all other respects a change of a graduate degree program is handled as a new application and is evaluated as such by the department into which the student wishes to transfer. A "Request for Graduate Degree Program Change" form and instructions are available in the University Graduate School.

REGISTRATION

All degree-seeking and non-degree-seeking students registering for more than 18 credits in any given semester must obtain the approval of the Dean of the University Graduate School. Registration for courses is as follows:

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

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

Web/Kiosk Registration

All students are able to retrieve their grades, registration appointment day and time, classroom assignments, registration holds (if any) and register/drop/add courses using on campus kiosks or the World Wide Web (http://sis.fiu.edu). Students must obtain their Personal Identification Number (PIN) in order to utilize these systems.

Immunization

To register for courses, students born after January 1, 1957, must provide documentation of immunization against measles and rubella. Documentation may be submitted to the University Health Care and Wellness Center at University Park, or to HM 110 at the Biscayne Bay Campus. Students should contact the Health Care and Wellness Center for more information at 305-348-5620 or 305-919-5307.

Dropping and Adding Courses

The Official Drop/Add period ends on the last day of the first week of classes (check the Academic Calendar for specific dares). During this period a student already registered may drop or add courses without financial penalty. A student not registered may initiate registration upon payment of the late registration fee. Students may also drop courses or withdraw from the University with no record of enrollment and without a tuition fee liability. If the tuition fee has already been paid, a refund will be issued by the Cashier's Office to the local address on file.

Late Adds

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

Late Drops

Courses officially dropped after the Drop/Add period and through the eighth week of the term (summer terms have different deadlines; check the Academic Calendar for specific dates) are recorded on the student's transcript with a symbol of 'DR' (dropped). The student is financially liable for all dropped courses Note: Non-attendance or non-payment of courses will not constitute a drop.

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



Withdrawal from the University

A currently registered student may withdraw from the university only during the first eight weeks of the semester. In the Summer semester, withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be completed and submitted to the Office of the Registrar. Non-attendance or non-payment of tuition and fees will not constitute a withdrawal.

The transcript of a student who withdraws before or during the first week of classes will contain no record of enrollment and no tuition fee will be assessed. If the tuition has already been paid, a refund will be issued by the Cashier's Office to the local address on file. If a student withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund will be issued.

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

The transcript of a student who stops attending the University without officially withdrawing from the University will receive an 'F' grade for each course.

GRADING

Grade		Points Per Credit Hou
Α		4.00
A-		3.67
B+		3.33
В		3.00
B-		2.67
C+		2.33
С		2.00
C-		1.67
D+		1.33
D		1.00
D-		0.67
F	Failure	0.00
P	Satisfactory (Pass)	N/A
IP	Thesis/Dissertation in Progress	N/A
IN	Incomplete ¹	N/A
W	Withdrew by appeal	N/A
WI	Withdrew from University	N/A
WP	Withdrew from University afte	r
	deadline with passing grade	N/A
WF	Withdrew from University afte	r
	deadline with failing grade	0.00
AU	Audit	N/A
DR	Dropped Course	N/A
DP	Dropped after deadline	
	with passing grade	N/A
DF	Dropped after deadline	
	with failing grade	0.00
NR	Grade Not Reported or Invalid	2 N/A
EM	Examination	N/A

'IN is only a temporary symbol. After two terms, it will revert to either a grade of "F" or the letter grade earned in the course.

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

Grading Options

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

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

Incomplete Grade

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

Students who have incomplete grades on their records must remove the incomplete by the end of the fourth week of the term in which they plan to graduate.

Forgiveness Policy

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

A course taken on a letter grade basis must be repeated on the same basis. Students will not be allowed additional credit or quality points for a repeated course unless the course is specifically designated as repeatable (independent study, studio courses, etc.). Students may repeat no more than two courses under this policy with no course being repeated more than once. Students not using the forgiveness policy may still repeat a course. All attempts will apply to computation of the GPA but credit for only one attempt will apply toward graduation. Students must check with the appropriate academic department to determine whether there are additional restrictions on repeating courses.

The forgiveness policy cannot be used to change the grade in a course in which the grade was determined as the result of either a formal or informal resolution of a charge of academic misconduct.

Departmental Credit by Examination

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

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

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

Change or Correction of Grades

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

Final Examinations

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

Final Grades

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

TERM COURSES ARE OFFERED

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

APPLICATION FOR GRADUATION

Students who plan to graduate are required to submit to the Office of the Registrar an "Application for Graduation" form. This form must be submitted by the date specified in the Academic Calendar for graduation application in that semester. Students turning in the "Application for Graduation" after the deadline will graduate the following semester. There is no charge for applying for graduation.

Students who do not graduate in the term for which they applied for graduation must re-apply for graduation and complete the remaining requirements needed for graduation.

Students must be entolled during the term in which they graduate.

ACADEMIC WARNING, PROBATION, AND DISMISSAL

Warning

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

Probation

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

Dismissal

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

Dismissed students who subsequently register 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 and the U.S.A. PATRIOT Act. Student academic records are maintained in the Office of the Registrar and in the academic department of the student's program. As a rule, all currently enrolled and former students have the right to review their records to determine their content and accuracy. Patents of dependent students, as defined by the Internal Revenue Code, and who provide evidence of the dependent status, have the same rights. For the cost of photocopying, students may generally have copies of any documents in their file, except for other institutions' transcripts.

RELEASE OF STUDENT INFORMATION FROM EDUCATION RECORDS

The disclosure or publication of student information is governed by policies of Florida International University and the State Board of Education within the framework of State and Federal Laws, including the Family Educational Rights and Privacy Act of 1974, as amended and the U.S.A. PATRIOT Act.

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. These exceptions are:

- A. Faculty, administrators, staff and consultants employed by the University of the State Board of Education whose work involves:
 - 1) Performance of administrative tasks which telate to students;
 - Performance of supervisory or instructional tasks which relate to students; or
 - 3) Performance of services which benefit students.
- B. 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:
 - Name, local and permanent address and telephone number(s);

- 2) Date and place of birth, and sex;
- 3) Classification and degree program;
- 4) Participation in officially recognized activities and sports:
- Weight and height of members of athletic teams; 5)
- Dates of attendance, degrees and awards received:
- The most recent previous educational agency or institution attended by the student; and
- Photographic image.

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

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

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

Information required by current laws and INS rules and regulations will be reported for all international graduate students.

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

> University Registrar Florida International University University Park - PC 130 Miami, Florida 33199 E-mail: register@fiu.edu Telephone: 305-348-2320

STUDENT SOCIAL SECURITY NUMBERS

FIU expects all U.S. students and resident aliens to have a valid Social Security Number. Enrolled students who do not have one will have three months to provide the Registrar's Office with proof of a

valid Social Security Number. Foreign students are encouraged to apply for a Social Security Number if they plan on working on campus. However, it is not required for enrollment purposes.

TRANSCRIPTS

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

Students must request their transcript in writing. There is a 48 hour processing period. The transcript will not be released if the student



has a University financial liability and/or a defaulted student loan. There is a \$5.00 charge per transcript.

CLASS ATTENDANCE

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

RELIGIOUS HOLY DAYS

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

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

- 1) Each student shall, upon notifying his or her instructor at the beginning of the semester, be excused from class to observe a religious holy day of his or her faith.
- 2) While the student will be held responsible for the material covered in his or her absence, each student shall be permitted a reasonable amount of time to make up any work missed.
- 3) No major test, major class event, or major University activity will be scheduled on a major religious holy day.
- 4) Professors and University administrators shall not arbitrarily penalize students who are absent from academic or social activities because of religious observances.

VETERANS INFORMATION

The Office of Veterans Affairs assists all veterans and their dependents who wish to receive VA educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs.

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

TRAINING STATUS	CREDIT HOUR			
Full time	9 Credits			
3/4 time	7 Credits			
Half time	5 Credits			
Less than half time	4 Credits			

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

For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs located in PC156, University Park, 305-348-2838; and ACI 100, Biscayne Bay Campus, 305-919-5750.

ENROLLMENT CERTIFICATION

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

Enrollment Status - Graduate:

Fall and Spring Semesters

Full time: 9 credits or more Half time: 5 - 8 credits
Less than half time: 4 credits or fewer

Summer Semester
Full time: 6 credits

Doctoral students who have reached candidacy or master's students who have completed all requirements except for the thesis, and have an approved thesis proposal on file in the University Graduate School, are considered full-time when registered for three credits per term.

Enrollment status is for continuous enrollment for the semester in which the student is in attendance. Reduction of course load may change the student's status. Contact the Office of the Registrar for further details.

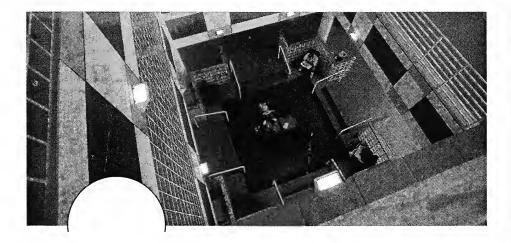
FLORIDA RESIDENCY INFORMATION -

FLORIDA STUDENT DEFINITION

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

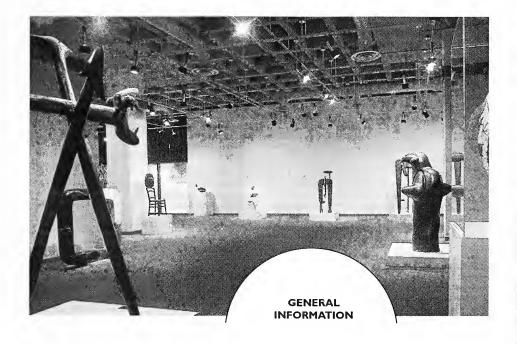
To qualify as a Florida Resident, the student must:

- 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 Stare and have maintained that legal residence for 12 months immediately prior to the start of the term in which the student is seeking Florida resident classification. The student's residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify),
- 3) Submit the following documentation (or in the case of a dependent student, the parent must submit documentation), prior to the last day of registration for the term for which resident status is sought:



- A) Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which Florida resident status is sought). The following documents will be considered in determining legal residence:
 - Declaration of Domicile.
 - Proof of purchase of a home in Florida which the student occupies as his or her residence.
 - Proof that the student has maintained tesidence in the state for the preceding year (e.g., rent receipts, employment record).
- Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to entollment 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):
 - Declaration of Domicile.
 - Florida Voter's registration.
 - iii Florida Driver's license.
 - Proof of real property ownership in Florida (e.g., deed, tax receipts).
 - 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.
 - vi Proof of membership in or affiliation with community or state organizations or significant connections to the State.
 - vii Proof of continuous presence in Florida during the period when not enrolled as a student.

- viii Proof of former domicile in Florida and maintenance of significant connections while absent.
- Proof of reliance upon Florida sources of support.
- Proof of domicile in Florida of family.
- Proof of admission to a licensed practicing profession in Florida.
- Proof of acceptance of permanent employment in Florida.
- xiii Proof of graduation from a high school located in Florida within the last 12 months.
- xiv 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 circustances of the individual.
- C) No contrary evidence establishing residence elsewhere. D) Documentation of dependent/independent status (IRS)
- return or affidavit). A student can also qualify for Florida residency by one or more of the following criteria:
- 1) Become a legal resident and be married to a person who has been a legal resident for the required 12-month period, or,
- 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 adminis-trative staff of a state public school, state community college or state university in Florida, a spouse or dependent, or,
- 4) Be a dependent and have lived five years with an adult relative who has established legal residence in Florida, or,
- 5) Be a former student at a public institution of higher education who was properly classified as a resident who re-establishes domiciliary status and re-enrolls within a period of 12 months, or,
- 6) Make a statement as to the length of residence in Florida and qualification under the above criteria.



AMERICANS WITH DISABILITIES ACT (ADA)

The Director for Equal Opportunity Programs is the University's ADA Coordinator, and has responsibility for ensuring access to employment, academic and public programs for persons with disabilities. The Office of Disability Services for Students administers a central budget used to fund the costs of reasonable accommodations for University employees and applicants for employment. These accommodations include the provision of auxiliary aids and services to ensure access to academic programs and University public events.

THE ART MUSEUM

The Art Museum at Florida International University has served the South Florida community for over 20 years presenting free exhibitions and art lectures of local, national and international importance. Exhibitions include student shows, self-curated exhibitions from both the University's collections and from institutions and organizations outside the University, and national traveling shows. The Art Museum is accredited by the American Association of Museums and is an affiliate of the Smithsonian Institution. It has also been recognized for its excellence by the grants it has received, most recently from the National Endowment for the Arts: The Institute for Museum and Library Services; The Florida Humanities Council; Miami-Dade County Cultural Affairs Council; and the Florida Department of State, Division of Cultural Affairs. The Art Museum is designated as a major culture institution by the State of Florida.

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

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

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

The Museum is located in PC 110. For further information on the Museum and its programs contact the museum at 305-348-2890 or visit the website www.artmuseumatfiu.org.

CAMPUS LIFE

Campus Life is your gateway to entertainment, involvement and leadership on campus. As a department within the Division of Students Affairs, we are creating experiences for life by providing opportunities for students to participate actively, grow personally, and explore new ideas and interests through a variety of entertainment and involvement experiences. Our staff, and the students with whom we work, are committed to creating a vibrant campus community filled with diverse activities for all students.

Programs within the Department of Campus Life include, Fraternities and Sororities, Graduate Students Association, Homecoming, Honors Council, Panther Rage, Student Government Association, Student Organizations Council and the Student Programming Council.

Membership recruitment timelines and requirements vary; please contact the department for specific involvement information. Students do not need to have previous experience to become involved on campus.

Campus Life is located in GC 340, University Park, 305-348-2138; and WUC 141, Biscayne Bay Campus, 305-919-5804.

CAREER SERVICES

Career Services answers the student's question "where are you headed?" The Office assists registered students at all campus locations with career plans and employment needs across all academic disciplines. Career Services' "high-tech/high-touch" philosophy offers 24/7 services plus individualized attention.

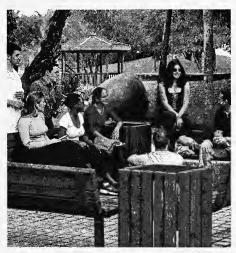
Career Services encourages students to register with the office immediately after enrolling in classes. Services include:

- Career Development Offers activities for those desiring to identify their next career/educational path. Career interest tools, group sessions, on-line resources, and individualized appointments are available.
- Internships Provides students with practical work experience in their chosen career. Assignments include part-time as well as full-time work. Internships may provide a salary and academic credit with assignments possible at local, national or international levels. Internships may also lead to a full-time career opportunity upon graduation.
- Employment upon graduation Offers networking opportunities, career fairs (face to face and virtual) on-campus interviewing (face to face and virtual), on-line job vacancies, resume referrals, and employer sponsored information sessions.

Career Services also provides specialized workshops for "soft skill development" (e.g. business etiquette dinners and dress for success seminars) and other job search sessions (e.g. behavioral interviewing, resume critiques, mock interviews with employers, and development of scannable resumes). The Office has video-conferencing capabilities for workshops and interviewing. For more information, click on www.fiu.edu/~career.

Career Services is located in GC-230, University Park. 305-348-2423; WUC-225, Biscayne Bay Campus, 305-919-5770; and CAES-2780, Engineering, 305-348-1281.

The Alvah Chapman Graduate School of Business also provides services for all Business graduate students, in MARC 224, 305-348-7395.



CHILDREN'S CREATIVE LEARNING CENTER

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

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

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

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

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

Students who are eligible may receive a partial subsidy to cover their child's registration fee, supply fee, and tuition.

For more information or to receive a copy of the Center's brochure and request for admission, please call 305-348-2143, website: www.fiu.edu/-children.

COUNSELING AND **PSYCHOLOGICAL SERVICES**

The Counseling and Psychological Services Center offers a spectrum of mental health services which enhance the emotional and cognitive well-being of students. Individual, couple, and group counseling are offered.

Biofeedback services and neuropsychological testing are also available. Programs available to the University community include psychoeducational workshops and seminars related to marriage, parenting, and mental health issues. Consultation services can be utilized by faculty or staff regarding student concerns. All services for students are free and confidential.

The Counseling and Psychological Services Center is located in GC 211, University Park, 305-348-2434; and WUC 320, Biscayne Bay Campus, 305-919-5305.

DISABILITY SERVICES FOR STUDENTS

Disability Services for Students provides information and assistance to students with disabilities who are in need of special accommodations. Individual services are available to students with visual, hearing, speech, physical, and learning disabilities. Services include counseling, classroom accommodations, assistive technology, note-takers, readers, ASL interpreters, adapted testing, priority registration, and referrals.

Support and assistance in overcoming architectural, academic, attitudinal, and other barriers encountered are provided. Requests for services must be made prior to the beginning of each semester and current documentation of disability is required to receive services.

Disability Services for Students is located in GC 190, University Park, 305-348-3532; and WUC 139, Biscayne Bay Campus, 305-919-5345. TTY 348-3490.

EQUAL OPPORTUNITY PROGRAMS

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



GRADUATE STUDENTS ASSOCIATION

The aim of the Graduate Students Association (GSA) is to facilitate and enhance the graduate student experience, to advance the reputation of, and assist in the expansion of, graduate programs, and to promote quality teaching and research at Florida International University.

To accomplish these goals, the Graduate Students Association:

- Provides services to the individual graduate student by subsidizing travel for students who present papers at professional meetings and conferences and by funding research as part of a thesis on dissertation such as to improve the quality of graduate research
- Fosters and supports Graduate Student Organizations (GSOs) through financial and technical resources.
- Provides services such as workshops and seminars in order to enhance graduate culture, awareness, and knowledge in areas of interest to graduate students.
- Works in conjunction with other organizations, departments, and/ or individual graduate students to coordinate conferences and promote events of interest to graduate students.

The Graduate Students Association office is located in GC 315, University Park, 305-348-4112. More information is available at www.fiu.edu/~gsa.

HEALTH CARE AND WELLNESS

The Health Care and Wellness Center (HCWC) provides quality, cost-effective, confidential, and professional primary medical care for the prevention, diagnosis, and treatment of non-emergency illness and injury. The Center also promotes healthy lifestyle choices and provides health education to enable students to achieve their optimal wellness potential, working in concert with the mission of the University.

The following free services are offered at the Health Care Center: routine office visits with registered nurses and primary care nurse practitioners and physicians; health screening; family planning counseling; and podiatry (at UP campus). The following services are offered at the Health Care Center for a nominal charge: Pap smears; laboratory tests (blood, urine, and cultures); EKGs; vision and hearing tests; physical examinations; HIV counseling and testing; respiratory therapy; immunizations; allergy injections; and certain over-thecounter and prescription medications. Students must present a valid FIU photo ID at the time of the office visit. The Health Care Center is open Monday through Friday and appointments are strongly recommended. Payment is required at the time of service. The student health fee does not cover diagnostic and therapeutic medical visits to outside physicians, medical and surgical specialists, dentists, outpatient clinics, emergency rooms, or hospitals. Students are strongly encouraged to purchase supplemental health insurance. A health insurance policy is available at a low group rate for students who take six or more credir hours a semester.

In case of emergency on campus, Public Safety - Campus Police Department should be called, 24 hours a day, at 305-348-5911 (University Park Campus) or 305-919-5911 (Biscayne Bay Campus). The Wellness Center advocates healthy lifestyle choices by providing a variety of health promotion activities and workshops for students and employees. The Wellness Resource Library has textbooks, brochures, videos, audiotapes, and computer interactive programs "Dine Healthy" personal diet assessment and "Alcohol 101." Personal health consultations are available for a variety of topics: nutrition, TriFit/Microfit computerized fitness assessments, stress management, and smoking cessation. The Wellness Center also sponsors several student organizations, including peer health educator programs and student clubs. Professional staff is available to conduct workshops and lectures on a variety of health topics for departments, student groups, and academic classes.

The Health Care and Wellness Center is located on the University Park Campus in the HCWC building, Phone: Health Care Center: 305-348-2401, Wellness Center 305-348-4020; and on the Biscayne Bay Campus in two locations: the clinic in the Health Care Center (located by parking lot 1-C), and the Wellness Center (located across from the Campus Support Complex), Phone: 305-919-5620, Health Care Center; 305-919-5307, Wellness Center. Website: www.fu.edu/-health.

HIV/AIDS POLICY

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

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

The University has designated HIV/AIDS counselors on both campuses who are available to provide further information on this subject. The entire HIV/AIDS policy is located on the FIU Health Care and Wellness Center web site: www.fiu.edu/-health/clinicalservices/HIVpolicy.htm. Contact the Health Care and Wellness Center for more information at 305-348-3080.

HOUSING AND RESIDENTIAL LIFE

Housing and Residential Life provides housing for students at both the University Park and Biscayne Bay campuses. There are four housing complexes located at the University Park Campus. They include three new state of the art housing facilities that have been opened in the last six years providing on campus housing for an additional 1,300 students. Total housing capacity on the University Park Campus is 1,900 bed spaces. At the Biscayne Bay campus, the newly renovated Bay Vista housing facility serves approximately 300 students. There are multiple room types providing a variety of different levels of accommodations to meet housing needs.

All of the housing facilities have fast Ethernet connections, unlimited access to the web, basic cable television, local telephone service, and utilities included in the room rental rate. Each of the residence halls is staffed with both professional and paraprofessional personnel to insure the facilities are safe and well maintained. For more information regarding services and accommodations please visit our web page at www.fiu.edu/-housing.

All housing agreements are issued for the academic year with summer assignments available. A \$150.00 deposit is required at the time of application, of which \$50.00 is a non-refundable processing fee.

The Housing Office is located in University Park Towers (UPT) 121, Phone:305-348-4190, Fax: 305-348-4295; E-mail: housing@fiu.edu. Office of Residential Life, Panther Hall (PH) 126, Phone: 305-348-3684.

HUMAN RESOURCES

The Division of Human Resources provides comprehensive human resource services for staff members and employees of all academic and administrative departments including student employees, research or graduate assistants, college work study and temporary employees on all campuses. All services provided by the office are in compliance with applicable federal and state regulations, and includes six major human resources areas—Staffing/Recruitment, Compensation/ Classification, Organizational Development and Learning, Employee Benefits and Workers' Compensation, Employee and Labor Relations, Employee Records, and Equal Opportunity Programs.

Human Resources is located in PC 224, University Park, 305-348-2190; and 322-A Library Building, Biscayne Bay Campus 305-919-5548.

INTERCOLLEGIATE ATHLETICS AND CAMPUS RECREATION

FIU is a member of the National Collegiate Athletic Association (NCAA), and the Sun Belt Conference for men and women. The University has competed at the Division 1-AAA level since September of 1987 prior to that competed successfully at the Division II level since 1972. Programs and services in Intercollegiate Athletics provide an opportunity for student-athletes to develop as skilled performers in an educational setting. Much emphasis is placed on the student as a student-athlete to ensure intellectual, emotional and social well being.

Athletic Facilities

The Golden Panther Athletic Facilities encompasses seven facilities that serve as the sites for athletic, educational and recreational activities.

The Golden Panther Arena is a multi-purpose facility. There is a seating capacity for special events of 5,150. The main floor can hold four volleyball courts and two basketball courts. The two auxiliary gyms can each hold one full basketball court or a volleyball court. Also housed in the arena are three racquetball courts, five classrooms and six locker rooms. The arena is open to students, faculty, staff and alumni with a valid Recreational Pass.

The FIU Soccer and FIU Softball stadiums are the home of our intercollegiate men's and women's programs. Both stadiums are lighted. The soccer stadium seats 1,500 and the softball stadium seats 300.

The FIU Tennis Center has twelve lighted courts and is home to the Women's tennis program. The courts are also open for daily recreational play.

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

The University Park Baseball Stadium is the home to our intercollegiate baseball team. The newly renovated stadium has a seating capacity of 1,600.

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

For additional information please call: FIU Athletic Facilities 348-3258; Golden Panther Box Office 348-4263 (FIU-GAME).



Campus Recreation

Campus Recreation at University Park offers recreational sports and fitness programs and facilities to Florida International University students. Funding for Campus Recreation is primarily through student fees allocated by the FIU Student Government Association (SGA). Faculty, staff, alumni and spouses of students are eligible to purchase memberships. Currently-enrolled students are automatically members.

The Student Fitness Center (SFC) is equipped with a variety of modern exercise and cardiovascular fitness equipment. In addition to free weights and dumbbells, quality brand-name resistance equipment, stair climbers, upright and recumbent bicycles, treadmills, rowers, and ellipticals are featured. The SFC is located adjacent to the Golden Panther Arena (GPA), The new Recreation Center, with over 12,000 sq. feet of fitness space, a gymnasium, and larger group fitness and locker room areas, will open in Fall 2004.

Low or no-cost Aerobics classes, including spinning, kick boxing and step, are offered throughout the year, as are specialty classes such as yoga and belly dancing. Fitness orientations, body composition evaluations, and personal training are services featured at the Student Fitness Center.

A variety of Intramutal Sports are offered, including men's, women's and co-rec leagues in sports such as flag football, basketball, volleyball, softball and soccer, and tournaments for racquetball, tennis and golf. Individuals looking for a team are encouraged to register as "free agents". Registration for all Intramural Sports can be completed on the Campus Recreation website. .

Golden Panther Arena provides recreational basketball, volleyball and badminton courts for limited drop-in use, and three indoor racquetball courts available on a reservation basis. The Tennis and Racquetball Center offers six recreational tennis courts and two 3-wall racquetball courts (all seasonally lighted for evening play). Tennis lessons are available. On-campus swimming is available at Panther Hall Pool, and students have free access to nearby Tamiami Pool during lap swim hours. A current, activated Golden Panther photo ID is required for access to all recreation facilities and programs.

Special programs include Adventure Recreation (low-cost trips and classes offered through community partnerships in activities such as rock climbing, kayaking, mountain biking), and INTRO 2 Sport Skills Series (where participants get a quick introduction to a new sport or activity). Campus Recreation also serves as a liaison for the university's Sport Clubs, such as rugby, table tennis, scuba and ice hockey.

Campus Recreation provides student employment opportunities as sports officials, fitness center attendants and supervisors, lifeguards, aerobics instructors, office assistants and more.

For additional information, call Campus Recreation at 305-348-2951. Additional phone numbers: Student Fitness Center (305-348-2575); Panther Hall Pool (305-348-1895); Golden Panther Arena (305-348-2900); IM Sports (348-1054); Tennis Center (305-348-6327). Website: www.fiu.edu/~camprec.

Biscayne Bay Campus Recreational Sports

Biscayne Bay Recreational Sports provides a variety of recreational, aquatic, and educational experiences. It contributes to the personal development of students and others by providing a variety octivities designed to enhance physical health while fostering an appreciation of competition, social skills, and cultural diversity.

The program includes intramurals, aerobics (including step and boxing), nautilus and weight training, swimming classes, lifeguard training, tennis clinics, swim/sports camps, fitness center, aquatic center, tennis facility and GMAC water polo tournaments. Special events include deep sea fishing, golf, turkey trot, an two bench press competitions.

For additional information, call Biscayne Bay Campus Recreational Sports at 305-919-4571. Website: www.fiu.edu/-bbcrec.

INTERNATIONAL STUDENT AND SCHOLAR SERVICES

The International Student and Scholar Services (ISSS) office provides assistance to international students, faculty and researches in non-immigrant status (F or J visas). The staff provides advising services on immigration, cultural, personal, social and financial concerns, as well as, maintains the Student Exchange Visitor Information System (SEVIS), the Department of Homeland Security tracking system.

All new and/or transfer students MUST artend a MANDATORY orientation program before the start of their first semester and MUST report to the ISSS office within the first week of the start of classes. The ISSS also offers social and cultural programs to assist students in adapting more effectively to the University community and to living in Miami. An active International Student Club on each campus collaborates with the ISSS in organizing various social activities. Club programs enable students to participate in the international dimension of the University and provide opportunities for involvement in the greater Miami community.

ISSS is located in GC 242, University Park, 305-348-2421; and WUC 363, Biscayne Bay Campus, 305-919-5813.

INTERNATIONAL STUDENT EXCHANGE PROGRAM

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

arrangements. In order to participate in ISE, a student must be enrolled at FIU and have a 3.0 cumulative GPA.

For more information, please contact the Office of International Studies located in Tower Trailer (TT), 305-348-1913, email: ois@fiu.edu, or website: ois.fiu.edu.



MULTIFAITH COUNCIL

The Multifaith Council is a unit within the Department of Campus Life. It is a coalition of various faith groups seeking to serve students through interfaith programs, leadership, and community service opportunities. The Multifaith Council includes Baptist Collegiate Ministries, Chatholic Campus Ministry, Campus Outreach, Hillel Jewish Student Center, Intervarsity Christian Fellowship, and Youth For Christ. The individual faith groups sponsor studies, retreats, and special workship services. Professional representatives are available for personal appointments.

The Multifaith Council is located in GC 358, University Park, 305-348-3902; and TRM-09, Biscayne Bay Campus, 305-919-5247.

OFFICE OF THE OMBUDSMAN

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

For more information or services, please contact the Office of the Ombudsman in GC 219, 305-348-2797; or WUC 325, Biscayne Bay Campus, 305-919-5800.

ORIENTATION AND COMMUTER STUDENT SERVICES

The Office of Orientation and Commuter Student Services provides resources, services, and programs to new students and the University's commuter student population.

The Commuter Center, located at University Park, assists students with obtaining information that may aid them in making a smooth transition to the University. A variety of services are available at the Center including: off-campus housing information, campus maps, Student Handbooks, parking information, local telephone access, and child care information. In addition to a variety of University resources, the Center also provides a variety of programs and brochures for FIU's commuter students, as well as extended hours of operation.

Orientation and Commuter Student Services is located in GC 112A. University Park, 305-348-3828; and WUC 363, Biscayne Bay Campus, 305-919-5804.

SEXUAL HARASSMENT. NONDISCRIMINATION, **EDUCATIONAL EQUITY**

All members of the University Community are entitled to study and work in an atmosphere free from illegal discrimination. Florida International University's equal opportunity policy prohibits discrimination against students and employees on the basis of their race, color, creed, age, disability, sex (including sexual harassment), religion, marital status, or national origin. Under the policy, it does not matter whether the discrimination was intended or not; the focus is on whether students or employees have been treated differently or subjected to intimidation, or a hostile or offensive environment as a result of their belonging to a protected class or having a protected status. Illegal sexual harassment includes 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 a victim of unlawful discrimination may file a complaint with the Office of Equal Opportunity Programs, PC 511, University Park (348-2785).

STUDENT CONDUCT AND CONFLICT RESOLUTION

The mission of the Office of Student Conduct and Conflict Resolution is to promote concepts of respect, civility, fairness, and conflict resolution on campus by enforcing community standards (FIU policies, federal, state, and local laws) and holding students accountable for their behavior in a fair, yet developmental manner, through the involvement of the campus community and educational development of students.

Infringements of an academic nature should be directed to the Office of the Provost. Complaints that are non-academic should be directed to the Office of Student Conduct and Conflict Resolution. The Office of Student Conduct and Conflict Resolution also provides the following:

- Mediation as an avenue to foster mutual respect and understanding when differences arise. Mediation through the Office of Student Conduct and Conflict Resolution is an informal. voluntary and confidential process to resolve minor conflicts, disputes or disagreements whithout going through formal charges or judicial proceedings.
- Background checks for various agencies (Secret Service, FBI, CIA, State Department, DEA, Federal Marshals, Law Enforcement Agencies, Military, Graduate Schools, Law Schools, Dean Certifications, Florida Bar Examiners).
- Selection and training of judicial board members and hearing offices.
- · Admissions clearances The University reserves the right to review the case of any student who has been involved in misconduct prior to admission to determine eligibility for admission.
- · Educational programs for faculty, staff and students regarding the student judicial process; ethics and integrity; and conflict resolution. Please refer to the Student Code of Conduct section in the Student Handbook for more information regarding Student Conduct and Conflict Resolution processes and procedures. Student Conduct and Conflict Resolution is located in GC 331, University Park, 305-348-3939, www.fiu.edu/-jms.

STUDENT MEDIA

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

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

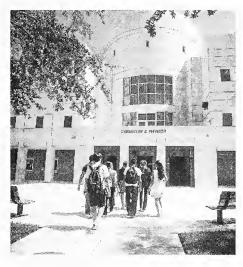
WRGP is FIU's radio station located at 88.1 FM. Its programming is an eclectic mix of the latest music on the cutting edge of the alternative scene, FIU sports play-by-play, and news. Programming also includes weekly specialty shows that cover the music spectrum of metal to reggae, and in between is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

The Beacon is located in GC 210, University Park 305-348-1580; and WUC 124, Biscayne Bay Campus, 305-919-4722. WRGP is located in GC 319, University Park, 305-348-2709.

STUDY ABROAD PROGRAM

Each year FIU offers a number of Study Abroad Programs in coordination with different academic units, the Office of International Studies, and University Ourreach. These programs are under the direction of FIU faculty members who accompany the students abroad. Students receive credit for these programs. Program locations include: Brazil, China, Spain, England, Ireland, Czech Republic, Germany, Italy, Japan, and others. The Honors College also offers programs in Italy and Spain.

For more information, please contact the Office of International Studies located in Tower Trailer (TT), 305-348-1913, email: ois@fu.edu. or website: ois.fiu.edu.



UNIVERSITY CENTERS

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

s the hubs of University life, the buildings house the offices of Student Government Association; Graduate Students Association (GSA); The Beacon student newspaper, Radio Station; Faculty Club, and departments of the Division of Student Affairs that provide services to students: Career Services, Counseling and Psychological Services, Office of Disability Services for Students, International Student and Scholar Services, Victim Advocacy Center, Leadership Development, Kaplan Centers, Office of Multicultural Programs and Services, Campus Life, TicketMaster, Women's Center, Volunteer Action Center, and Student Conduct and Conflict Resolution.

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

The Graham Center houses the Office of the Vice President for Student Affairs and Human Resources, classrooms, an art gallety, the Radio Station (WRGP), TicketMaster, a satellite cashiering office, a food court offering Pollo Tropical, Subway, Gracie's Grill, Edy's Ice Cream, Smoothie Time Health Food, and a coffee shop. The mini-mall offer a credit union, Panther Stop store, copy center, bookstore, hair and nail salon, and travel agency.

The Wolfe University Center at the Biscayne Bay Campus houses a theater, parking services, credit union, fitness center, and a post office.

The administrative offices of the University Centers are located in GC 104, University Park 305-348-2297; and WUC 325, Biscayne Bay Campus 305-919-5800.

UNIVERSITY LIBRARIES

The University Libraries are housed in the Steven and Dorothea Green Library (GL) at University Park and in the Library Building (LIB) at Biscayne Bay Campus. In addition, there is a Library Service Center offering a variety of services on the Engineering Campus; a specialized legal collection that is part of the College of Law; and a library supporting the FIU Wolfsonian Museum. Collectively, these libraries make available over 1.6 million volumes; provide access to a broad range of electronic resources via more than four hundred public work stations; and offer the latest in electronic library services combined with efficient access to print material.

Library users have access to ILLiad, the latest in automated interlibrary loan systems with journal articles delivered to the desktop; to chat reference service in English and in Spanish; and to a broad range of Information Literacy instructional offerings. Most on-line sources are available 24 hours a day. Most collections are in open stacks and directly available to the public.

Special resources and services include: a Geographic Information Systems (GIS) Center; the Everglades Digital Library; and a Virtual Library Tour, all accessible from the library home page (library-flu.edu).

The principal libraries maintain an extensive schedule of service hours staying open Sunday-Thursday during the fall and spring semesters until 1 a.m., with more extensive access available during final exams. A number of research carrels are available for assignment to doctoral students.

Currently-registered students may use the libraries of any other institution in the State University System. For access to libraries in the southeast Florida Region, check at the circulation desk concerning SEFLIN library privileges that enable you to borrow books from other academic libraries in the region.

VICTIM ADVOCACY CENTER

The Victim Advocacy Center provides support services to victims and survivors of crime and abuse for FIU students, faculty, staff, and university visitors. Services are confidential and free of charge, and address such issues as sexual violence, relationship/dating abuse, stalking, assault and battery, hate crimes, harassment, and survivors of homicide and/or child abuse. The Center also provides awareness and prevention educational programs for the community, and volunteer training for FIU students. In addition, the Center engages in research regarding effective intervention and receives funding to make national policy recommendations. A resource library is available for student use at the University Park office. Persons who have experienced victimization are encouraged to seek services from the Victim Advocacy Center.

The Victim Advocacy Center is located in GC 195A, University Park, 305-348-1215; and by appointment in WUC 257E, Biscayne Bay Campus.

VOLUNTEER ACTION CENTER

The Volunteer Action Center (VAC) is the central office for student volunteer activities on campus. The Center encourages students to realize their potential to impact their communities and effect social changes through the power of service learning, advocacy, and volunteerism. The VAC has two central focuses: first, it coordinates and directs service-learning activities, and second, it acts as a clearinghouse and resource center for volunteer opportunities and advocacy. Additionally, the VAC sponsors two student-run programs. Alternative Spring Break organizes and sends students to perform community service projects in different cities across the country during the University's Spring Break. The second program is Dance Marathon, an annual fundraiser where students raise money for the Children's Miracle Network. The VAC is committed to helping students turn their caring into daring, their ideas into action, and their time into change.

The Volunteer Action Center is located in GC 340, University Park, 305-348-2149; and WUC 257, Biscayne Bay Campus, 305-919-5360, www.fiu.edu/~vac.

WOMEN'S CENTER

The Women's Center offers various programs and services related to the intellectual, social, and professional growth of women. Through collective efforts, the Center advocates for systemic changes that will improve the lives of women and men. Center programming focuses on the particular needs of women students, and encourages women to learn more about themselves, other women, and the environment in which they live. The Mentoring Partnership Program, a joint



effort with the Office of Alumni Relations, promotes the professional and leadership success of FIU students. All programs are open to the entire community. Services provided by the Center focus on women, and include, confidential referrals, scholarship information, library and resource files, and opportunities for volunteers.

The Women's Center is located in GC 318, University Park, 305-348-3692; and WUC 256, Biscayne Bay Campus, 305-919-5359.



THE WOLFSONIAN-FIU

Located in the heart of Miami Beach's Art Deco District, The Wolfsonian-Florida International University is a museum and research center that serves local, national, and international audiences by promoting the examination, understanding, and appreciation of the ways that design has served as a reflection of societal values and as an active force in the shaping of human experience. The Wolfsonian is accredited by the American Association of Museums. Through thought-provoking exhibitions, publications, research, academic, and public programs, The Wolfsonian-FIU focuses on the meaning of objects and the effect that the Industrial Revolution had on the creation of the modern world. The Wolfsonian became part

of FIU in July 1997. Its founder, Mitchell Wolfson Jr., donated to FIU his extraordinary collection of the period 1885-1945

The Wolfsonian holds more than 70,000 objects predominantly from North America and Europe, providing rich evidence of the cultural, political, and technological changes that swept the world in the century preceding the end of World War II. The collection features furniture, decorative arts, industrial design, paintings, sculpture, architectural models, works on paper, rare books, and ephemera. Notable among these are Depression era prints and mural studies by WPA artists, items from the British Arts and Crafts movement and the German Werkstätten and Werkbund, and artifacts of political propaganda.

Permanent, temporary, and traveling shows address broad themes of the nineteenth and twentieth centuries, such as nationalism, political persuasion, industrialization, architecture and urbanism, consumerism and advertising, transportation, and world's fairs. Although drawing primarily on its own holdings, The Wolfsonian also features exhibitions and objects on loan from other collections.

Days, evenings, and weekends, The Wolfsonian offers a range of lectures, films, symposia, tours, and workshops geared to visitors of all ages. It has paired with Miami-Dade County public schools to develop activities and interpretive materials for students and teachers in the arts and social sciences. To inquire about an exhibition (present, past, upcoming), program, or the general calendar, or to learn more about the collection and how it can be used for research, please visit www.wolfsonian.org or call 305-531-1001.

The Wolfsonian publishes catalogues to document its exhibitions and collection. It also produces the award-winning Journal of Decorative and Propaganda Arts, a scholarly annual dedicated to exploring the role of art and design in the modern world.

Free admission to exhibitions is provided to all Florida state university faculty, students, and staff with valid ID. In addition, The Wolfsonian is open to the general public on Thursday evenings from 6:00 pm-9:00 pm. Most educational programs are free to the FIU community, however, occasional fees apply.



ADMINISTRATION AND STAFF

OFFICE OF THE PRESIDENT

Modesto A. Maidique Ted Guba Inspector General Chief of Staff Sebastian Arcos

ACADEMIC AFFAIRS

Provost and Executive Vice President Mark B. Rosenberg Vice President, Academic Affairs and Undergraduate Studies Rosa L. Jones Vice President, Information Technology and Chief Information Officer John P. McGowan

Vice Provost for Academic Budget and Operations Vice Provost and Director, Planning and

A. Kyle Perkins

Institutional Effectiveness Vice Provost, Academic Affairs and Dean. University Graduate School

Marie E. Zeglen

Vice Provost, International Studies

Douglas Wartzok A. Douglas Kincaid

Senior Associate Vice President, Enrollment Services Assistant Vice President.

Susan McKinnon

Academic Affairs Assistant Vice President, Lidia V. Tuttle

Academic Affairs

Kenneth Johnson

UNIT DEANS

Dean, School of Architecture Juan A. Bueno Dean, College of Arts and Sciences R. Bruce Dunlap Executive Dean, College of

Business Administration

Joyce Elam

Dean, College of Education Dean, College of Engineering Linda P. Blanton Vish Prasad

Dean, College of Health and Urban Affairs

Ronald M. Berkman

Dean, Honors College

Ivelaw L. Griffith

Dean, School of Hospitality and Tourism Management

Joseph West

Dean (Interim), School of Journalism

and Mass Communication Lillian Lodge Kopenhaver

Dean, College of Law Leonard P. Strickman

Dean, Continuing and Professional Studies

David Grossman

LIBRARIES

Executive Director Laurence A. Miller Executive Associate Director Antonie B. Downs

Assistant Director for

Collection Development Tony "Charles" Schwartz

Assistant Director, Reader Services

Sherry Carrillo

MUSEUMS, CENTERS AND INSTITUTES

Director, Center for Accounting, Auditing, and Tax Studies

Dana Forgione

Director, Center for

Administration of Justice

Luis Salas

Director, Center for Advancement of Engineering and Pre-College Education

Gustavo Roig

Executive Director, Center on Aging

Max B. Rothman

Director, Art Museum

Dahlia Morgan

Director, Institute for Asian Studies

Steven Heine

Director, Biomedical Engineering Institute

Richard T. Schoephoerster

Director, Center for Advanced

Distributed Systems Engineering Xudong He

Director, Cardiovascular

Engineering Center Richard T. Schoephoerster

Director, Center for

Advanced Technology Education

Malek Adjouadi

Director, Center for International

Business Education and Research Mary Ann Von Glinow

Director, Children's Creative Learning Center

Nancy Ponn

Director, Institute for

Children and Families at Risk Barbara Thomlinson

Director, Cuban Research Institute

Lisandro Perez

Director, High Performance Database Research Center

Naphtali Rishe

Director, Lehman Transportation Research Center	L. David Shen	Director, Environmental Health and Safety	Jennifer Mwaisela
Director, Center for Tourism and Technology	Alan J. Parker	Director, Biscayne Bay Campus Bus and Auxiliary Services	siness Nicholas DiCiacco
Executive Director, Center		Director, Public Safety	Jesse Campbell
for Urban Education and Innovation	Lisa Delpit	Director, Purchasing Services	Judy Weech
Director, Wolfsonian Museum	Cathy Leff	Director, Intercollegiate Athletics	Rick Mello
Director, Women's Studies Center	Suzanna Rose		
Director, Institute for		GOVERNMENTAL AFFAIRS	
	Frank T. Hammons	Vice Provost, Governmental Affairs	
Director, Center for		Director, Governmental Relations	Anitere Flores
Youth Development	Lilly M. Langer	Washington Representative	Susan Moya
COLLEGE OF CONTINUING AND PROFESSIONAL STUDIES		INTERCOLLEGIATE ATHLETIC	S AND CAMPUS RECREATION
Dean, College of Continuing and		Director of Athletics	Rick Mello
Professional Studies	David Grossman	Head Baseball Coach	Danny Price
Acting Associate Dean, College of		Head Men's Basketball Coach	Donnie Marsh
Continuing and Professional Studies	Gwen Weinberger	Head Women's Basketball Coach	Cindy Russo
Director, Distance Learning and Center for Online Teaching	Jeffrey Miller	Head Cross Country/ Track Coach	Jessica Carter
Acting Director,	Jemey Winer	Head Women's Diving Coach	Kongzheng "KZ" Li
Kovens Conference Center	Christian Pastner	Head Women's Golf Coach	David Pezzino
BISCAYNE BAY CAMPUS		Head Men's Soccer Coach	Karl Kremser
Vice Provost	Raul Moncarz	Head Women's Soccer Coach	Everton Edwards
Assistant to the		Head Softball Coach	Kim Gwydir
Vice Provost for Development	Pauline Winick	Head Women's Swimming Coach	Noemi Zaharia
FIU BROWARD-PINES CENTER		Head Women's Tennis Coach	Ronnie Bernstein
Director	Diana Little		Dulcie "Cookie" Stevens
Assistant Director	Isabel Morales	Associate Athletic Director,	Duice Cooke Stevens
BUSINESS AND FINANCE	E	External Affairs	Jan Allen
Executive Vice President	Paul D. Gallagher	Associate Athletic Director, Internal Affairs	Julie Berg
Associate Vice President,	Charles Tinder	Assistant Athletic Director,	Jame Deig
Budget/Planning	Charles Tinder	Campus Recreation	Rob Frye
Assistant Vice President, Facilities Operations	Victor Citarella	Director, Academic Support Services	Mike Becker
Assistant Vice President, Business and Finance	Alexander Zyne	Assistant Athletic Director,	
Acting Director, Facilities Management	Robert Griffith	Media Relations	Rich Kelch
•	Bennie Osborne	Assistant Athletic Director,	
Director, Equal Opportunity Programs		Facilities and Operations	Barton Mondell
Director, Controller's Office	Andy Fornaguera		

S.	Ţ	U	D	E	N	T	A	F	F	Δ	١Į	R	S	

O. ODEITI ATTIME	
Vice President	Patricia Telles-Irvin
Associate Vice President,	Helen Ellison
Assistant Vice President	John A. Bonanno
Assistant Vice President and University Ombudsman	Larry Lunsford
Assistant Vice President, Human Resources	Paul Michaud
Senior Director, Career Services	Olga Magnusen
Director, Children's Learning Center	Nancy J. Ponn
Director, Campus Life	Charlie Andrews
Director, Disability Services	Julio Garcia
Executive Director, Graham University Center	Ruth A. Hamilton
Director, Grants and Research	E. George Simms
Executive Director, Health Care Wellness Center	and Robert Dollinger, M.D.
Senior Director, Housing	James Wassenaar, Jr.
Director, International	

Program and Services	Robert Coatie
Senior Director, Recreational	
Sports, Biscayne Bay Campus	Gregory A. Olson

Student and Scholar Services Senior Director, Multicultural Ana Sippin

Director, Counseling and Psychological Services Center	Cheryl Nowell
Director, Student Conduct and Conflict Resolution	Karen Dlhosh
Director, Women's Center	Karen Garner
Director, Office of Employee Assistance	Nancy Petenbrink
Senior Director, Residential Life	Cathy Akens
Director, Student Media	Robert Jaross

UNIVERSITY ADVANCE	EMENT
Vice President, Advancement	Howard R. Lipman
Associate Vice President and Executive Director, Alumni Relations	Bill Draughon
Assistant Vice President, Advertising and Brand Management	Terry Witherell
Director, Advancement Service	Zully Dorr
Director, Communications	Todd Ellenberg
Director, Community Relations	Josefina Cagigal
Director, Festivals	Dale C. Webb
Acting Director, Media Relations	Maydel Santana Bravo
Director, Publications	Bill Stahl
Associate Director, Interactive Design	Eddie Leon



FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

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

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

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

THE COURSE PREFIX

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

GENERAL RULE FOR COURSE EQUIVALENCIES

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

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

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

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the aame prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a

state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

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

AUTHORITY FOR ACCEPTANCE OF EQUIVALENT COURSES

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

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

EXCEPTIONS TO THE GENERAL RULE FOR EQUIVALENCY

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

- 1) Courses in the 990- 999 series.
- Internships, practical, clinical experiences, and study abroad courses.
- Performance or studio courses in Art, Dance, Thearer, and Music.
- 4) Skills courses in Criminal Justice.
- 5) Graduate courses.

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

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

SPECIAL COURSE DIRECTORY

In addition to the regular courses listed in the catalog*, special courses may be offered using the State Wide Course Numbering System. The following table provides an inventory of course numbers by course type.

UNDERGRADUATE

GRADUATE

COURSE TYPE	COURSE NUMBER	LOWER	UPPER	POST BACCALAUREATE	MASTERS	DOCTORAL
S. In P. M. January Smith	-900 through -909	1 or 2	3 or 4-	-5-	9	7
Directed Keadings/ Independent Study	-910 through -919	XXXX	3 01 4-	¥	્રું	7
Directed Independent Research		1 or 2 3 or 4-	3 or 4-	7	-9	7
Colloquiums/Symposiums/ Workshops	-930 through -939	1 or 2-	1 or 2- 3 or 4-	7	ાં	7
Special Topics/Scriminas						
Internships tracticum cannon	-940 through -949	1 or 2- 3 or 4-	3 01 4-	ን	Ŷ	7-
Practice/Cooperative Education	950- Hannah 056-	1 or 2-	1 or 2- 3 or 4-	7.	Ą	7
Activities/Performances/Study Abroad	996- Hanouth 1986-	XXXX	XXXX	7	Ŋ	· 7-
Preliminary/Comprehensive Examinations	-970 through -979	XXX	XXXX	XXXX	79	XXXX
Thesis/Thesis Defense	986- Hanouth 1986-	XXXX	XXXX	XXXX	XXXX	7-
Dissertation/Dissertation Defense	-990 through-999 1 or 2 3 or 4-	1— or 2—	3 01 4-	·	9	7-
Experimental Courses/ Reserved for Special Institutional Courses						

^{*} FIU is in the process of re-numbering all special courses to comply with the State Wide Course Numbering sequence above.

Therefore, some of the special courses listed in the catalog will change.

ACADEMIC UNITS

SCHOOL OF ARCHITECTURE

UP 305-348-3181 Email: delauzs@fiu.edu

Website: www.fiu.edu/-soa/index.htm

COLLEGE OF ARTS AND SCIENCES

UP 305-348-2864 BBC 305-919-5859 Pines 954-438-8602

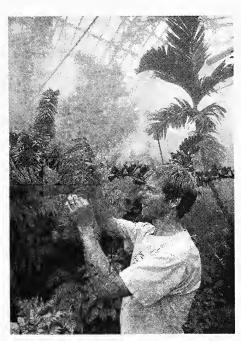
Email: casdean@fiu.edu Website: www.fiu.edu/orgs/casdean

School of Computer Science

UP 305-348-2744 BBC 305-919-5859

Email: info-undergrad@cs.fiu.edu

Website: www.cs.fiu.edu



School of Music

UP 305-348-2896
BBC 305-919-5859
Email: music@fiu.edu
Website: www.fiu.edu/~music

COLLEGE OF BUSINESS ADMINISTRATION

UP 305-348-2751 BBC 305-919-5870 Pines 954-438-8601 Website: **cba.fiu.edu**

Alvah H. Chapman, Jr. Graduate School of Business

UP 305-348-2751

School of Accounting

UP 305-348-2581 BBC 305-919-5362

COLLEGE OF CONTINUING AND PROFESSIONAL STUDIES (CAPS)

UP 305-348-5669
BBC 305-919-5669
Pines 954-438-8617
Email: caps@fiu.edu
Website: fiu.edu/-caps

COLLEGE OF EDUCATION

UP 305-348-3202
Pines 954-438-8602
Email: lejarzal@fiu.edu
Website: coeweb.fiu.edu/

COLLEGE OF ENGINEERING

UP 305-348-2522
Pines 954-438-8601
Email: all@eng.fiu.edu
Website: www.eng.fiu.edu/

COLLEGE OF HEALTH AND URBAN AFFAIRS

UP 305-348-5840 BBC 305-919-5840 Pines 954-438-8602 Website: chua-fiu.edu

School of Health

UP 305-348-3446

Website: schoolofhealth.fiu.edu

School of Nursing

BBC 305-919-5915 or 5971

Pines 954-438-8601 Website: chua2.fiu.edu/nursing

School of Policy and Management

UP 305-348-5890 BBC 305-919-5890

Website: chua2.fiu.edu/spm

School of Social Work

UP 305-348-5880 BBC 305-919-5880

BBC 305-919-5880 Pines 954-438-8601

Website: chua2.fiu.edu/socialwork

HONORS COLLEGE

UP 305-348-4100

BBC 305-919-5864
Email: honors@fiu.edu
Website: www.fiu.edu/-honors

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

BBC 919-4500

Email: hospitality@fiu.edu Website: hospitality.fiu.edu

SCHOOL OF JOURNALISM AND MASS COMMUNICATION

BBC 305-919-5625

Email: sjmc@fiu.edu Website: jmc.fiu.edu/sjmc

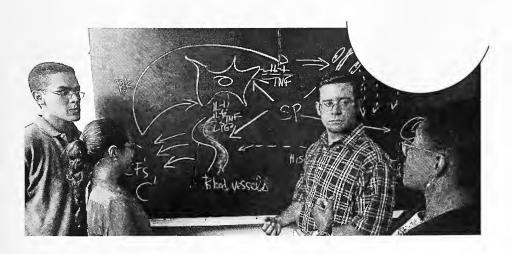
COLLEGE OF LAW

UP 305-348-8006 Email: lawadmit@fiu.edu

Website: www.fiu.edu/law

UNIVERSITY GRADUATE SCHOOL

UP 305-348-2455 Email: ugs@fiu.edu Website: www.fiu.edu/ugs



CENTERS AND INSTITUTES

CENTER FOR ACCOUNTING, AUDITING, AND TAX STUDIES

cba.fiu.edu/portal/external/caats

CENTER FOR ADMINISTRATION OF JUSTICE caj.fiu.edu/main.html

CENTER FOR ADVANCED DISTRIBUTED SYSTEMS ENGINEERING cadsc.cs.fiu.edu

CENTER FOR ADVANCED TECHNOLOGY AND EDUCATION www.cate.fiu.edu

www.cate.nu.edu

CENTER ON AGING www.fiu.edu/~coa

ART MUSEUM www.fiu.edu/~museum/home.html

INSTITUTE FOR ASIAN STUDIES www.fiu.edu/~asian

www.eng.fiu.edu/cvec/main.htm

BIOMEDICAL ENGINEERING INSTITUTE
www.eng.fiu.edu/bmei

CARDIOVASCULAR ENGINEERING CENTER

CHILD AND FAMILY PSYCHOSOCIAL RESEARCH CENTER www.fiu.edu/~capp

INSTITUTE FOR CHILDREN AND FAMILIES AT RISK www.fiu.edu/~icfr

CUBAN RESEARCH INSTITUTE lacc.fiu.edu/cri

CENTER FOR DIVERSITY IN ENGINEERING eng.fiu.edu/~cde

CENTER FOR ECONOMIC RESEARCH AND EDUCATION

CENTER FOR ENERGY AND TECHNOLOGY
OF THE AMERICAS
cota-fiu-edu

ENGLISH LANGUAGE INSTITUTE www.eli.fiu.edu

FLORIDA - CARIBBEAN INSTITUTE lacc.fiu.edu/fci

FLORIDA CENTER FOR ANALYTICAL ELECTRON MICROSCOPY
www.fiu.edu/~emlab

FLORIDA - MEXICO INSTITUTE lacc.fiu.edu/fmi

FUTURE AEROSPACE SCIENCE AND TECHNOLOGY CENTER www.eng.fiu.edu/FAST

CENTER FOR HEALTH RESEARCH AND POLICY

HEMISPHERIC CENTER FOR ENVIRONMENTAL TECHNOLOGY

HIGH PERFORMANCE DATABASE RESEARCH CENTER hpdrc.cs.fiu.edu

INSTITUTE FOR HOSPITALITY AND TOURISM EDUCATION AND RESEARCH hospitality.fiu.edu/ihter

INSTITUTE OF GOVERNMENT www.fiu.edu/~iog

INTERCULTURAL DANCE AND MUSIC INSTITUTE lacc.fiu.edu/indami

CENTER FOR INTERNATIONAL BUSINESS EDUCATION AND RESEARCH www.fju.edu/~ciber

INTERNATIONAL FORENSIC RESEARCH INSTITUTE

INTERNATIONAL HURRICANE CENTER www.ihc.fiu.edu/index ihc.htm

INTERCULTURAL INSTITUTE FOR EDUCATIONAL INITIATIVES
www.fiu.edu/~iied

INTERNATIONAL MEDIA CENTER
www.fiu.edu/~imc

JEROME BAIN REAL ESTATE INSTITUTE cba.fiu.edu/portal/external/bba/realestate.htm

JOINT CENTER FOR ENVIRONMENTAL AND URBAN PROBLEMS www.fiu.edu/~jcenter

INSTITUTE FOR JUDAIC AND NEAR EASTERN STUDIES www.fiu.edu/~jewstudi/index.html

KNIGHT RIDDER CENTER FOR EXCELLENCE IN MANAGEMENT cba.fiu.edu/portal/external/kr

CENTER FOR LABOR RESEARCH AND STUDIES www.fiu.edu/~clrs

I ATIN AMERICAN AND CARIBBEAN CENTER lacc.fin.edu

LEHMAN CENTER FOR TRANSPORTATION RESEARCH www.eng.fiu.edu/LCTR

CENTER FOR MANAGEMENT DEVELOPMENT www.fiu.edu/~ope

MANUFACTURING RESEARCH CENTER www.eng.fiu.edu/MRC

METROPOLITAN CENTER www.fiu.edu/~metcntr

NATIONAL POLICY AND RESOURCE CENTER ON NUTRITION AND AGING www.fiu.edu/~nutreldr

PROFESSIONAL DEVELOPMENT CENTER www.fiu.edu/~pdc

INSTITUTE FOR PUBLIC MANAGEMENT AND COMMUNITY SERVICES www.fiu.edu/~ipmcs

INSTITUTE FOR PUBLIC OPINION RESEARCH www.fiu.edu/orgs/ipor

IACK D. GORDON INSTITUTE FOR PUBLIC POLICY AND CITIZENSHIP STUDIES www.fiu.edu/~ippcs

SOUTHEAST ENVIRONMENTAL RESEARCH CENTER www.serc.fin.edu

CENTER FOR THE STUDY OF MATTER AT EXTREME CONDITIONS www.fiu.edu/~saxenas

SUMMIT OF THE AMERICAS CENTER www.americasnet.net

TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY INSTITUTE www.it2.fiu.edu

CENTER FOR TOURISM AND TECHNOLOGY www.fiu.edu/~tourtech

CENTER FOR TRANSNATIONAL AND COMPARATIVE STUDIES www.fiu.edu/~tcs

CENTER FOR URBAN EDUCATION AND INNOVATION coeweb.fiu.edu/urbaned

THE WOLFSONIAN-FIU www.wolfsonian.fiu.edu

WOMEN'S STUDIES CENTER www.fiu.edu/~wstudies

INSTITUTE FOR WORKFORCE COMPETIVENESS www.fin.edu/~xiwc

CENTER FOR YOUTH DEVELOPMENT



SUPPORT SERVICES

ACADEMIC ADVISING

UP 305-348-2892 BBC 305-919-5754 Website www.fiu.edu/~advising

ADMISSIONS - UNDERGRADUATE

UP 305-348-2363 BBC 305-919-5760 Pines 954-438-8600

Website www.fiu.edu/orgs/admiss

ADMISSIONS - GRADUATE

UP 305-348-7442

Website www.fiu.edu/gradadm

ART MUSUEM

UP 305-348-2890 Website www.fiu.edu/~museum

ATHLETICS

UP 305-348-2756

Website www.fiu.edu/orgs/athletics

BOOKSTORE

UP 305-348-2691 BBC 305-919-5580 Website **fiu.bkstore.com**

BURSAR / CASHIERS

UP 305-348-2126 BBC 305-919-5540 Website sis.fiu.edu

CAMPUS LIFE

UP 305-348-2138 BBC 305-919-5814

Website www.fiu.edu/~camplife

CAMPUS RECREATION

UP 305-348-2900 BBC 305-919-4549

Website www.fiu.edu/-camprec

CAREER SERVICES

UP 305-348-2423 BBC 305-919-5770

Website www.fiu.edu/-career

COPY CENTER

UP 305-348-6565 BBC 305-919-5660

Website obs.fiu.edu/copy_center.htm

COUNSELING AND PSYCHOLOGICAL SERVICES CENTER

UP 305-348-2434 BBC 305-919-5305

Website www.fiu.edu/~psychser

CREDIT UNION

UP 305-348-1772 BBC 305-919-4820 Website www.ucumiami.org

FINANCIAL AID

UP 305-348-2489 BBC 305-919-5765

Website www.fiu.edu/orgs/finaid

FITNESS CENTER

UP 305-348-2575 BBC 305-919-5678

Website www.fiu.edu/~camprec/\$FC1.htm www.fiu.edu/~bbcrec/fitness.htm

GRADUATION

UP 305-348-2341 BBC 305-919-5750

Website www.fiu.edu/orgs/registrar/comm.html

HEALTH CLINIC (STUDENT HEALTH SERVICES)

UP 305-348- 2401 BBC 305-919-5620 Website www.fiu.edu/~health

website www.iiu.edu/~ii

UP 305-348-4190

Website www.fiu.edu/orgs/housing

LIBRARY

HOUSING

UP 305-348-2454 BBC 305-919-5726 Pines 954-438-8608 Website **library.fiu.edu**

PARKING AND TRAFFIC

UP 305-348-3615 BBC 305-919-5558

Website www.fiu.edu/~xtranspo

PUBLIC SAFETY

UP 305-348-2626 BBC 305-919-5559 Website www.fiu.edu/~univpol

REGISTRAR

UP 305-348-2320 BBC 305-919-5750 Pines 954-438-8600

Website www.fiu.edu/orgs/register

STUDENT GOVERNMENT ASSOCIATION

UP 305-348-2121 BBC 305-919-5280

Website www.fiu.edu/~sga/main.html www.fiu.edu/~sgcbbc

UNIVERSITY LEARNING CENTER

UP 305-348-2180 BBC 305-919-5927 Website w3.fiu.edu/ulc

WOLFSONIAN - FIU

Address: 1001 Washington Avenue

Miami Beach, Florida 33139

Phone: 305-531-1001

Website: www.wolfsonian.fiu.edu



School of Architecture

School of Architecture

Juan Antonio Bueno, Associate Professor and Dean

David F. Bergwall, Associate Professor and Associate Dean Nathaniel O. Belcher, Associate Professor and Assistant Dean

Alfredo Andia, Assistant Professor Ted Baker, Associate Professor Jaime Canavés, Associate Professor Marta Canavés, Associate in Design Jason R. Chandler, Visiting Assistant Professor

Gisela López-Mata, Associate Professor

William G. McMinn, Professor Marilys R. Nepomechie, Assistant Professor

Nicolás Ouintana, Scholar in Architecture and Urbanism Gray Read, Assistant Professor Camilo Rosales, Associate Professor, Kevin Smith, Assistant Professor John Stuart, Associate Professor

The School of Architecture is dedicated to advancing the professions of architecture, interior design and landscape architecture. 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 school offers two undergraduate degree programs, a Bachelor of Design in Architectural Studies and a Bachelor of Science in Interior Design (see undergraduate catalog for descriptions), and two graduate degree programs, a Master of Architecture and a Master of Landscape Architecture.

Students applying to the School should plan for the financial aspects of a design education. This includes the costs of computers, software, travel and field trips, tools and equipment, and building and modeling supplies. All students must have continuing access to a personal computer through purchase, lease or other arrangements. For further information contact the School.

Ownership of Student Work

Student work, submitted to the School in satisfaction of course or degree requirements, becomes the physical property of the School. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings,

models, and other materials. The School assumes no responsibility for safeguarding such materials. At its discretion, the School may retain, return, or discard such materials. The School will not normally discard the materials of currently enrolled students without giving the student a chance to reclaim them.

Master of Architecture

The Graduate Program in Architecture prepares students for research and practice in the field of architecture. It includes the study of design, advanced technologies in architectural practice, and the history and theory of architecture.

The Program offers three tracks to students from various academic backgrounds. Students with previous experience in architecture follow the Professional consisting of 105 credit hours to be completed in approximately three years. Students with a four-year undergraduate degree architecture follow the Professional Track 2, consisting of 60 credit hours to be completed in approximately two years. Students with a professional five-year undergraduate degree in architecture from a program accredited by National Architectural Accrediting Board (NAAB) follow the Post-Professional Track 1, consisting of 36 credit hours to be completed in one year. All students in the program are required to undertake a thesis project as the culmination of their course of study at the School of Architecture. Students may have no more than one outstanding elective by the time they begin their thesis semester.

Admission to the Master of Architecture Program is determined by an extensive portfolio review that examines evidence of creative work, academic success, and professional achievement. Students who have successfully completed the portfolio review process must also meet the minimum requirements undergraduate grade point average (GPA) of 3.0 on a 4.0 point scale or a Graduate Record Examination (GRE) score of 1000 (or better) or hold a graduate degree from an accredited institution to be fully admitted in the graduate program.

The course of study leading to the professional Master Architecture degree is accredited by the National Architectural Accrediting Board (NAAB). In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board, which is the sole agency authorized to accredit US professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Graduate Program in Architecture Tracks

TRACK 1 - 36 Credits

A post professional degree for students with a 5-year professional Bachelor of Architecture degree from a program accredited by NAAB. (Track 1 - is not eligible for or accredited by NAAB.)

0	, , , , , , , , , , , , , , , , , , , ,	
First Year (F ARC 5361	all Semester) Graduate Design I	6
		-
ARC 6947	Research Methods	3
Elective		3
	pring Semester)	
ARC 5362	Graduate Design 11	6
ARC 6910	Thesis Seminar	3
Elective		3
First Year (S	ummer Semester)	
Elective		3
Elective		3
	(Fall Semester)	
ARC 6971	Thesis	6

A professional degree for students with a 4-year pre-professional Bachelor of Architectural Studies degree. (Accredited by NAAB) First Year (Fall Semester)

6

3

TRACK 2 - 60 Credits

ARC 5361 Graduate Design I ARC 6947 Research Methods ARC 5483L Innovations in Bldg

Graduate Ca	talog	
	Tech Lab	I
Elective		3
First Year (S	pring Semester)	
ARC 5362	Graduate Design II	6
ARC 5205	Adv. Design Theories	3
ARC 5176C	Computer Practice II	3
Elective		3
First Year (S	ummer Semester)	•
Elective		3
Elective	(T) (T) (1)	3
ARC 6356	(Fall Semester) Graduate Design III	6
ARC 6910	Thesis Seminar	3
BUL 6810	Legal Environment of	-
	Business	3
Elective		3
Second Year	(Spring Semester)	
ARC 6971	Thesis	1-6
Elective		3
TRACK 3-1		
A professiona	l degree for students with	1
Science, or	f Arts or a Bachelor o equivalent, from ar	I
	stitution. (Accredited by	
NAAB)		'
Prerequisites		
PHY 2053 MAC 2147	Physics w/o Calculus	4
	Pre-Calculus	3
ARC 4058	Computer Applications	
	in Architecture	3
First Year (F		
ARC 5075 ARC 1461	Formative Studio I Methods and Materials I	3
ARC 3243	Design Theories	3
ARC 2701	History of Design from	,
	Antiquity to Middle	
	Ages	3
First Year (S	pring Semester)	
ARC 5076	Formative Studio 2	6
ARC 2702	History of Design from	
	the Renaissance to the XIX Century	3
BCN 2402C	Structures I	3
BCN 4561	Environmental Controls	•
	1	3
First Year (Se	ummer Semester)	
ARC 5077	Formative Studio 3	6
BCN 4564	Environmental Controls	•
ARC 4783	2 History of Design from	3
ARC 4703	the XIX Century to	
	Present	3
ARC 4553	Structural Design	3
Second Year	(Fall Semester)	
ARC 5361	Graduate Design 1	6.
ARC 6947	Research Methods	3
ARC 5483	Innovations in Bldg Tech	3
ARC 5483L	Innovations in Bldg	,
	Tech Lab	1
Elective		3

Second Year	(Spring Semester)	
ARC 5362	Graduate Design 2	6
ARC 5205	Adv. Design Theories	3
ARC 5176C	Computer Practice II	3
Elective		3
Second Year	(Summer Semester)	
ARC 4270C	Prof. Office Practice	3
Elective		3
Elective		3
Third Year (I	Fall Semester)	
ARC 6356	Graduate Design 3	6
ARC 6910	Thesis Seminar	3
BUL 6810	Legal Envir of Business	3
Elective		3
Third Year (S	Spring Semester)	
ARC 6971	Thesis	1-6
Master of	Landscape	

Architecture

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

A flexible curriculum accommodates individual research interests within a rigorous academic framework. The School offers two options within the Program. The Professional Degree Option is intended for individuals without a degree in Landscape Architecture. This course of study leading to the first professional Master of Landscape Architecture degree is accredited Landscape bv the Architectural Accreditation Board, an committee of autonomous American Society of Landscape Architects. The Post-Professional Degree Option is intended for individuals with an undergraduate degree in landscape architecture who wish to pursue advanced professional study.

Professional Degree Option

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

History and theory 6 Methods 12 Studio 30 9 Construction Practice 6 15 Thesis and concentration

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

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

3

3

6

3

3

Typical Curriculum

First Year (F	all Semester)
LAA 5716	History of Landscape
	Architecture
LAA 5371	Computer Practices in
	Landscape Architecture
	I
LAA 5652	Formative Studio
First Year (S	pring Semester)
LAA 6541	South FL Landscapes
LAA 5371	Computer Practices in

Landscape Architecture 3 LAA 5653 Site Studio 6 First Year (Summer Semester) LAA 6916 Research Methods 3

LAA 6382 Analysis Methods Second Year (Fall Semester)

LAA 5422 Landscape Development3 LAA 5521 Tropical Landscapes 3 LAA 6654 Community Studio 6

Second Year (Spring Semester)

LAA 5235	Theory of Lscp Arch	3
LAA 5423	Landscape Construction	3
LAA 6655	Regional Studio	6
Second Year	(Summer Semester)	
Elective		3
Elective		3
Third Year (I	Fall Semester)	
LAA 5427	Landscape Structures	3
LAA 6835	Urban Studio	6
Third Year (I	Fall Semester)	
LAA 5425	Landscape Construction	
	Documentation	3
LAA 6215	Professional Practice in	
	Landscape Architecture	3
LAA 6971	Thesis	6

Post-Professional Degree Option

Individuals with an undergraduate degree in landscape architecture from an accredited professional program are eligible for admission to the Program provided University requirements are met. Two years of full-time study in residency are normally required. However, a part-time study option is available subject to the review of the Program. Satisfactory completion of 60 credits in the following course of study is required.

Studio	18
Thesis and concentration	42

Typical Curriculum

LAA 6971

(If 24 credits of advanced standing are granted. Typical for holders of Bachelors of Science in Architectural Studies.)

First Year (F:	all Semester)	
LAA 5716	History of Landscape	
	Architecture	3
LAA 5521	Tropical Landscapes	3
LAA 6654	Community Studio	6
First Year (Spring Semester)		
LAA 5235	Theory of Lscp Arch	3
LAA 6541	South FL Landscapes	3
LAA 6655	Regional Studio	6
First Year (Summer Semester)		
LAA 6916	Research Methods	6
LAA 6382	Analysis Methods	3
Second Year (Fall Semester)		
LAA 5422	Landscape Development	3
LAA 6835	Urban Studio	6
Second Year (Spring Semester)		
LAA 5425	Landscape Construction	
	Documentation	3
LAA 6215	Professional Practice in	

Thesis

Landscape Architecture 3

Certificate in Landscape Architecture

The School of Architecture has identified a significant need for balance amongst our academic disciplines and a corresponding need for variable options for our graduate student body. The certificate will require 18 semester credit hours chosen from the following course areas: History of Landscape Architecture, South Florida Landscapes, Landscape Development, Tropical Landscapes, Landscape Construction, Theory of Landscape Architecture, Landscape Structures, and Landscape Construction Documentation.

While this option would be most accessible to students currently enrolled in the School of Architecture. motivated graduate students in related areas of study throughout the university would be permitted to pursue this certificate. This program is largely a value-added certificate, for architecture graduate students within the School of Architecture and related fields such as Environmental Science and Biology who would like to seek to expand their academic experience. This certificate creates an opportunity to attract students into landscape architecture profession.

Certificate Requirements

Participants must fulfill the requirements outlined for the Certificate in Landscape Architecture and complete each course with a satisfactory grade.

Program Requirements

LAA 5716	History of Landscape
	Architecture
LAA 5541	South Florida
	Landscapes
LAA 5422	Landscape Development
LAA 6521	Tropical Landscapes
LAA 5423	Landscape Construction
LAA 5235	Theory of Landscape
	Architecture
LAA 5427	Landscape Structures
LAA 5425	Landscape Construction
	Documentation

Awards and Scholarships

The following scholarships and awards are presented to students fully admitted to the Graduate Program in Landscape Architecture who have demonstrated outstanding achievements in their studies.

American Society of Landscape Architects Awards. On nomination by the Program faculty, the American Society of Landscape Architects awards a Certificate of Honor and a Certificate of Merit to the two students who have demonstrated a high degree of academic scholarship and of accomplishments in skills related to the art and technology of landscape architecture.

Sigma Lambda Alpha Honor Society. Each year, upon nomination by the Program faculty, the Alpha Chi Chapter of the Sigma Lambda Alpha Honor Society inducts the outstanding students in the Program.

The Ernest and Virginia Makemson Memorial Endowed Scholarship Fund. This fund provides support for students who have demonstrated interest and experience in restoring and preserving Florida's natural and cultural environment through the practice of landscape architecture.

Course Descriptions

Definition of Prefixes

ARC-Architecture; IND-Interior Design; LAA-Landscape Architecture F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

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

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

ARC 5076 Formative Studio 2 (6). A continuation of Architectural Design investigations begun in Formative Studio. Prerequisite: ARC 5075. (S)

ARC 5077 Formative Studio 3 (6). An Architectural Design Studio that builds upon concepts and approaches presented in Formative Studio and Formative Studio 2. Prerequisite: ARC 5076. (SS)

ARC 5175 3D Computer Modeling in Architecture (3). This advanced course will explore computer modeling in Architecture. Prerequisite: Program approval.

ARC 5176C Computer Practices in Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. Prerequisite: ARC 4058 or equivalent.

ARC 5177 Computer Rendering in Architecture (3). This advanced course explore 3D rendering in Architecture. Prerequisites: Program approval.

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

ARC 5361 Graduate Design 1 (6). Exploration of highly articulated projects of small scale utilizing innovative research methods to strengthen and clarify design concepts taken to a detailed resolution. Corequisite: ARC 5483. (F)

ARC 5362 Graduate Design 2 (6).

This course explores architectural projects of medium to large scale applying innovative building technologies to a highly resolved spatial organization. Prerequisite: Graduate standing and ARC 5316. (S)

ARC 5396 Case Studies in Architecture (3). The course explores the vast array of decisions that create the architectural experience of outstanding built works.

ARC 5483 Innovations in Building Technology (3). Experimental approach to new materials and methods applicable to the field of construction. Prerequisite: Permission of the instructor. Corequisite: ARC 5361. (F)

ARC 5483L Innovations in Building Technology Lab (1). Field and laboratory exercises in the evaluation of technical support assemblies for buildings. Corequisites: ARC 5361.

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

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

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

ARC 5933 Special Topics (1-6). Coursework on a particular aspect of architecture under the direction of faculty in a classroom format. Prerequisite: Program approval.

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

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

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

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

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

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

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

ARC 6906 Independent Study (1-6). Coursework on a particular aspect of Architecture under the direction of faculty in an individual study format. Prerequisite: Program approval.

ARC 6910 Thesis Seminar (3). Coursework under the direction of faculty in preparation for a master's thesis in architecture in a classroom format. Prerequisite: ARC 6947.

ARC 6947 Research Methods (3). Methods of data acquisition, analysis,

amd interpretation used in architecture research.

ARC 6971 Thesis (1-6). Coursework under the direction of faculty for the completion of thesis by candidate for the degree of Master of Architecture. Prerequisite: ARC 6910.

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

LAA 5235 Theory of Landscape Architecture (3). Critical review of the environmental parameters, morphological concepts and ideological principles that generate form and meaning in landscape architecture. Prerequisite: LAA 5716. (S)

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

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

LAA 5374 Introduction to Computer Practices in Landscape Architecture (3). Computer application of drafting and design techniques used in landscape architecture. Prerequisite: Program approval.

LAA 5378 GIS Applications in Landscape Modeling (3). Introduction to modeling capabilities of GIS in the planning environmental process addressing the natural and cultural characteristics of the landscape. Prerequisite: Program Approval.

LAA 5422 Landscape Development (3). Technical aspects of the design and specification of earthwork, including materials, products, and methods of installation used in landscape development. Prerequisite: LAA 5371.

LAA 5423 Landscape Construction (3). Technical aspects of the design and specification of sitework, including materials, products, and methods of installation used in landscape construction. Prerequisite: LAA 5422. (S)

- LAA 5425 Landscape Construction Documentation (3). Production of landscape construction documents, including drawings and project manual with bidding documents, contract documents and technical specifications on the computer. Prerequisite: LAA 5423. (S)
- LAA 5427 Landscape Structures (3).
 Production of Landscape construction details for structures and systems used in Landscape architecture.
 Prerequisite: LAA 5423. (F)
- LAA 5540 Landscape Horticulture (3). Overview of horticultural management practices related to the growth, transport, installation, and maintenance of vegetative materials used in landscape architecture. Prerequisite: Program approval. (SS)
- LAA 5541 South Florida Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical Florida. Prerequisite: Program approval. (S)
- LAA 5652 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in landscape architecture. Prerequisite: Program approval. (F)
- LAA 5653 Site Studio (6). Application of landscape architecture principles and methods to site design in tropical and subtropical contexts. Prerequisite: LAA 5652. (S)
- LAA 5715 History and Theory of Architecture (3). Overview of the history and theory of architecture and urban design from antiquity to the present. Prerequisite: Program approval. (SS)
- LAA 5716 History of Landscape Architecture (3). Historical survey of the principal sites and traditions manifested in the evolution of landscape architecture and urban design from antiquity to the present. Prerequisite: Program approval. (F)
- LAA 6215 Professional Practice in Landscape Architecture (3). Study of the ethical, legal, financial, and managerial aspects of professional practice in landscape architecture. Prerequisite: Program approval. (5)
- LAA 6222 Communications in Landscape Architecture (3). Methods of verbal and graphic presentations, workshops, and publications used in

- landscape architecture. Prerequisite: Program approval. (SS)
- LAA 6245 Theory of Urhan Design (3). Critical review of the principal theories of urbanism that have influenced the fabric and image of the city in Western history. Prerequisite: LAA 5235 and LAA 5716. (SS)
- LAA 6246 Typology of Landscape Architecture (3). Critical examination of the origin, development and transformation of form and meaning in modern and postmodem landscape architecture and urban design. Prerequisite: LAA 5235 and LAA 5716. (SS)
- LAA 6247 Modern Landscape Architecture (3). Critical review of the origins and development of modern and post modern expressions in landscape architecture. Prerequisites: LAA 5235 and LAA 5716. (SS)
- LAA 6342 Landscape Aesthetics (3). Critical review of the assessment models used to evaluate the aesthetic quality of the landscape. Prerequisites: LAA 5235 and LAA 5716. (SS)
- LAA 6373 Sound in Landscape Architecture (3). An examination of the ecological, acoustic, aesthetic, and historical aspects of the sonic environment. Prerequisites: LAA 5235 and LAA 5716. (SS)
- LAA 6382 Analysis Methods (3). Theories and methods of the organization, analysis, and interpretation of cartographic data using geographic information systems. Prerequisites: Program approval. (SS)
- LAA 6521 Tropical Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical regions. Prerequisite: Program approval. (F)
- LAA 6551 Sustainable Landscapes
 (3). Study of the principles that sustain
 a balance between natural resources
 and human aspirations in the
 landscapes of tropical and subtropical
 regions. Prerequisite: LAA 6541. (SS)
- LAA 6654 Community Studio (6). Application of landscape architecture principles and methods to community planning and design in tropical and subtropical contexts. Prerequisite: LAA 5653. (F)
- LAA 6655 Reglonal Studio (6). Application of landscape architecture

- principles and methods to regional management, planning, and design in tropical and subtropical contexts. Prerequisite: LAA 6654. (S)
- LAA 6745 Preservation of Landscape Architecture (3). Critical examination of the formation and preservation of historic sites with emphasis on interpretation, analysis and evaluation of cultural landscapes and urban places. Prerequisite: LAA 5235 and LAA 5716. (SS)
- LAA 6835 Urban Studio (6). Application of interdisciplinary principles and methods to urban planning and design in tropical and subtropical contexts. Prerequisite: LAA 6655. (F)
- LAA 6905 Independent Study (1-6). Coursework on a particular spect of landscape architecture under the direction of faculty in an individual study format. Prerequisite: Program approval. (F,S)
- LAA 6916 Research Methods (3). Methods of data acquisition, analysis, and interpretation used in landscape architecture research. Program approval. (SS)
- LAA 6936 Special Topics (1-3). Coursework on a particular aspect of landscape architecture under the direction of faculty in a classroom format. Prerequisite: Program approval. (F.S.SS)
- LAA 6937 Thesis Seminar (3). Coursework under the direction of faculty in preparation for a master's thesis in Landscape Architecture. Prerequisites: LAA 6382, LAA 6916.
- LAA 6971 Thesis (1-6). Coursework under the direction of faculty for the completion of thesis by candidate for the degree of Master of Landscape Architecture. Prerequisite: LAA 6XXX (Thesis Semiar). (S)

School of Architecture

Dean Juan Antonio Bueno Associate Dean David F. Bergwall

Faculty

Andía, Alfredo, MDes, PhD (University of California-Berkeley). Assistant Professor, Architecture

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

Belcher, Nathaniel Q., MArch, AIA (Harvard University), Associate Professor, Assistant Dean, Architecture

Bergwall, David F., MBA, DBA (George Washington University), Associate Professor, Associate Dean

Bueno, J.A., MLA, ASLA, PE (Harvard University), Associate Professor, Dean

Canavés, Jaime, MArch, FAIA, 11DA (University of Florida), Associate Professor, Architecture

Canavés, Marta, MLA, IIDA (Florida International University), Associate in Design

Chandler, Jason R., MArch, AIA (Harvard University), Visiting Assistant Professor, Architecture

López-Mata, Gisela, MS (Pratt Institute), Associate Professor, Interior Design

McMinn, William G., MArch, FAIA (University of Texas), Professor. Architecture

Nepomechie, Marilys, MArch, AIA (Massachusetts Institute of Technology), Associate Professor, Architecture

Quintana, Nicolás, NCARB (University of Havana), Scholar in Architecture and Urbanism

Read, Gray, MArch, PhD, RA (University of Pennsylvania), Assistant Professor), Architecture

Rosales, Camilo, MArch, RA (Harvard University), Associate Professor, Architecture

Smith, Kevin, MArch, (Virginia Polytechnic and State University), Assistant Professor, Architecture

Stuart, John A., MArch, AlA (Columbia University), Associate Professor, Architecture

71

College of Arts and Sciences

College of Arts and Sciences

The College of Arts and Sciences furthers the study of fundamental intellectual disciplines, and serves the University's other Colleges and Schools. The College grants Bachelor's, Master's, and Ph.D. degrees. In addition, the College serves students who need to complete general education and core curriculum requirements, and other requirements, in order to enroll in specific disciplines or professional programs.

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

Graduate Programs

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

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

Graduate Admission Requirements

The following requirements are in addition to the University's Graduate Admission Requirements. These are minimal requirements. Please consult the specific graduate program, which may have higher requirements.

1. A 3.0 or higher GPA during the last two years as an upper division student or a minimum total score (quantitative plus verbal) of 1,000 on the GRE for the Master's degree. A 3.0 or higher GPA or a GRE verbal and quantitative of 1100 or higher are required for the Ph.D. degree. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 500 score of higher.

2. The GRE or GPA stated above are only minimum requirements. All applications are reviewed by the Graduate Studies Admission Committee which makes the final admissions decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum aforementioned standards.

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

Interdisciplinary Courses

The College of Arts and Sciences has serveral interdisciplinary programs which are not based in a specific academic department. The courses offered by these programs therefore are not found in the departmental listings in the Catalog. For this reason, they are included here.

Social Science Interdisciplinary

ISS 5237 Latin American and Caribbean Cultural Expressions (3). This interdisciplinary course develops an interdisciplinary approach to the study of national, cultural, and racial identities, as expressed in cultural productions of the Latin America and the Caribbean.

ISS 5238 The Imaged Body: The Case of the Americas (3). With a team-taught interdisciplinary approach this course explores how identity, power and hierarchy are invoked and represented through the human body and body movement in the region of the Americas.

African-New World Studies

Core ANWS Graduate Faculty Carole Boyce Davies, Director of African-New World Studies Program, Professor of English & African-New World Studies

Linda Spears-Bunton, Associate
Professor, Education & African-New
World Studies, Director of Graduate
Studies

Faculty:

Heather Andrade, Assistant Professor, English

Pascale Becel, Associate Professor,
Modern Languages
Ken Bandhon, Associate Professor

Ken Boodhoo, Associate Professor, International Relations

Jeau-Robert Cadely, Assistant Professor, Modern Languages & African-New World Studies

John Clark, Associate Professor, International Relations

Lisa Delpit, Eminent Professor, Urban Education

Marvin Dunn, Associate Professor, Psychology

Mohamed Farouk, Associate Professor, College of Education Nadine Fernandez, Assistant

Professor, Sociology/Anthropology Steve Fjellman, Professor, Sociology & Anthropology

Ivelaw L. Griffith, Professor, Political Science

Tometro Hopkins, Associate Professor, English

Alexander Lichtenstein, Associate Professor, History

Marcia Magnus, Associate Professor, Dietetics & Nutrition

Anthony Maingot, Professor, Sociology / Anthropology Andrea Mantell-Seidel, Associate

Professor, Theater & Dance Roderick Paul Neumann, Associate Professor, International Relations

Akin Ogundiran, Assistant Professor, History

Valerie Patterson, Assistant Professor, College of Urban & Public Affairs

Jean Rahier, Associate Professor, Sociology/ Anthropology and African-New World Studies,

Terry Rey, Assistant Professor, Religious Studies

Robin Sherriff, Assistant Professor, Sociology/Anthropology Vicky Silvera, Library

Alex Stepick III, Professor, Sociology

/ Anthropology
James Sweet, Assistant Professor.

History, African New World Studies

Clarence Taylor, Professor of History and African-New World Studies

Juan Torres-Pou, Assistant Professor, Modern Languages

Donna Weir-Soley, Assistant. Professor, English

Other faculty not identified above will be considered CORE ANWS Faculty based on research, identified interest, and publications. Students can take courses for credit from other ANWS Affiliated Faculty after approval of syllabus by graduate director.

Master of Arts in African-New World Studies

The M.A. in African-New World Studies provides interdisciplinary, graduate level training with three areas of emphasis: I. Pedagogy of the African Diaspora, 2. National and Transnational Policy Analysis, and 3. Cultural Studies. This M.A. develops scholars with specific skills, research methodologies. principles. knowledge which will lead to professional positions in a range of fields as it simultaneously prepares them for further study at the doctoral level. The M.A. in African-New World Studies is international in orientation, as such, its geographic reach is Africa. the Caribbean, North and South America, Europe and Asia. Therefore, conceptually, it embraces the African Diaspora. FIU provides one of the few truly international, multi-disciplinary M.A. models among Africana Studies programs, departments and centers nationally. As such, the M. A. in African-New World Studies is organized to develop research interests and models, advance knowledge, and develop interactive and comparative relationships with similar programs which pursue the life, cultural and social formations. economics. education, language, expressive and performing arts, governmental and other institutional systems, of peoples of African descent wherever they exist. The M.A. in African-New World Studies provides students with some specific skills, knowledge resources to:

1. Work in specific programs and units related to African communities in Africa, Latin America, the Caribbean, the United States, Europe, Asia; international organizations; multicultural curriculum development and teaching and other educational contexts; race and social and

public policy; journalism and other diverse fields.

Prepare students to use and develop theoretical, analytical, and methodological approaches to critical issues such as those pertaining to race and ethnicity in all their manifestations; development and underdevelopment: technology; relations domination and power; environmental policies; health and wellness: issues of selfdetermination and mutual cooperation, and all aspects of aesthetic / creative expression.

 Create new knowledge through research and close study of relevant communities and disseminate this knowledge to the various communities we serve.

4. Understand and confront the unique socioeconomic problems facing communities of Africa and the African Diaspora; Incorporate into an intellectual and research agenda theoretical and analytical frameworks that focus on a) "Resistance and Struggle," b) "Nationalities and National/Post National Identities," C) "Migration and Identity/Geographical Repositioning," d) "History, Culture, Performative and Expressive Modes," and e) "Schooling, Pedagogical Exigencies, Instructional Practices, and Educational Policies."

Admission Requirements

Each applicant to the African-New World Graduate Program must complete a graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Records Exam (GRE) and TOEFL (if applicable) to the FlU's Office of Admissions. Each applicant should also send a separate letter of application to the director of the African-New World Graduate Program, along with copies of the above material. The letter of application should include a statement expressing applicant's academic professional objectives and the choice of the applicant for enrolling in either one of the three areas of specialization. Applicants are strongly encouraged to include examples of academic or other relevant professional work that may support their application. Applicants request two letters must recommendation from professors able to comment on their academic ability.

The letters of recommendation should be sent directly to the Director of the African-New World Graduate Program.

The application file must be complete before the African-New World Studies Graduate Committee will consider the applicant for admission. The deadline for receipt of application--including all supporting and letters recommendation--is March 15th To be admitted into the African-New World Studies Graduate Program a student must meet the University's graduate admission requirements, which can be International Florida found in University's Graduate Catalog and the following minimum standards:

Applicants must have a baccalaureate degree from an accredited college or university.

- A. Applicants must have a baccalaureate degree from an accredited college or university.
- B. Applicants must have an undergraduate grade point average (GPA) of 3.0 or higher and a combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE). Applicants must submit both grade transcripts and GRE scores for consideration. The student must also have a GPA of 3.5 on any previous graduate work
- C. Applicants should request that two letters of recommendation from individuals able to judge a student's academic potential be sent directly to the Director of the African-New World Studies Graduate Program: African-New World Studies, Florida International University, Academic One-162, 3000 North - East 151st Street, North Miami, Florida 33181.
- Applicants are encouraged to submit examples of written work and other supporting materials.
- E. Applicants whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

Financial Aid

Each academic year a limited number of graduate students are hired as teaching assistants. Teaching assistantships are allocated on a competitive basis and typically pay a substantial portion of tuition expenses and provide a stipend. To be considered for an assistantship the

applicant must make such a request in writing to the Graduate Program Director. The Graduate Program Committee will make the awarding of teaching assistantships. Students receiving an assistantship are required to perform approximately 20 hours of teaching related duties per week and are required to participate in a one-hour seminar related to teaching.

Graduation Requirements

Candidates must obtain a grade of B or higher in all courses and achieve a cumulative average of at least 3.0 (based on a 4.0 scale) and present a satisfactory internship (with research paper) or thesis. A Thesis committee or an Internship Research Project committee composed of at least two FIU faculties will guide the student through successful completion of the thesis or internship (with research paper).

The FIU faculty eligible to serve in a Thesis, Internship Research Project committee is the faculty members whose names appear in the list of "African-New World Studies Core MA Faculty" presented above. Other faculty not identified in that list will be considered "Core Faculty" based on research, identified interest, and publications (see the Graduate Director).

Before the end of a student's first year in the program, he/she should form a thesis or internship research project committee. This committee will consist of а Committee Chairperson and two additional committee members. The Committee Chairperson and one other committee member must be "Core Faculty" of the African-New World Studies Program. The remaining committee member will generally be a faculty member at FIU, although with the approval of the Committee Chairperson and the Graduate Program Director, the third member may come from outside the ANWS Program ("Core Faculty") or University.

Internship Research projects as well as thesis research are usually performed during the first summer of enrollment in the program. Internships Research Projects are options available only to students who specialize either in Pedagogy of the African Diaspora or in National and Transnational Policy Analysis. Students enrolled in the specialization in Cultural Studies must write a thesis. Internships projects are ALWAYS accompanied by a research paper.

The thesis will be between 70 and 100 pages. The research paper linked to an internship generally will be between 25 and 50 pages. The student may use original data if she or he and the Committee Chairperson consider it appropriate.

However, a thesis or research paper may be based on secondary sources or on library research. In any case it will be based on scholarly sources defined by particular disciplines. While thesis and research papers need not be based on original data collected by the student, they must be rigorous and original. By rigorous, we mean that the thesis/research paper must be tightly argued and logical, well-written and well-organized. By original, we mean that the thesis cannot simply summarize the arguments or work of others. It must have the student's unique interpretation, which should be cogent--given the data under consideration.

Required Credits (for all Specializations)

Three (3) credits [core course], six (6) credits of thesis/research project or community project or internship and twenty-seven (27) credits selected according to one's specialization. (See below for specifics for specialization requirements).

Total: 36 credit hours.

Core Course (For all specializations)

AFA 5002

African-New World Studies: Theory and Methods Graduate Seminar

(offered every Fall semester)

Language Requirement (For all specializations)

Students will be asked to demonstrate proficiency in a language according to the nature of their internship or thesis/research project or community project, and professional interests. Credit hours earned in meeting language requirement will not count towards the 36 credit hours required for the degree.

AFA 6920 Graduate Colloquium 1 (students must register for one credit for three consecutive semesters)

Specializations

I. Pedagogy of the African Diaspora

(Liaison – Linda Spears-Bunton, College of Education)

This specialization addresses the need for multi-cultural education with a specific emphasis on training personnel to be knowledgeable about Africa Diaspora materials. The national and international rise of multi-cultural studies and interests in the area of education makes this program marketable to a range of educational interests. Targeted as well to meet the needs of teacher training in light of the Florida State Legislation (s233.061) which mandates the teaching of African American history across curriculum, our students will be prepared to play leadership roles in the development of an international consciousness - of educational contexts, facilities, curricula, inside and outside of the United States. This specialization will help students teach and develop instructional materials in the area of urban education as well as for other students of different ethnicities; facilitate transmission of pedagogical materials on the African Diaspora; and develop cross and intracultural methodologies. Students must display cultural and linguistic fluency. Students in this specialization may participate in an Internship with an appropriate institution/organization that will culminate in a Research Project for 6 credit hours.

Thesis or Internship (6 credit hours)

Required Courses (6 credit hours)

AFA 5107	Teachers' Institute
AFA 6325	Pedagogy of the Africar
	Diaspora: Literacy,
	Culture, Race & Gender
	Issues

Students must take three courses (9 credit hours) from the list below. Students should consult with the graduate program director since new courses are frequently added and special topic courses sometimes concern the African Diaspora.

Latin American

EDF 5820

SSE 6394

	Education
EDF 5821	African Educational
	Systems: A Comparative
	Approach
EDF 5881	Foundations of Bilingua
	Education
LAE 5465	Adolescent Literature
LAE 5466	Multicultural
	Perspectives in
	Language & Literature
LIN 5603	Language Planning:
	Linguistic Minority
	lecue

Social Studies in

Other Nations SSE 6925 Workshop in Social Studies Education

From the list below, students must take three courses (9 credit hours). Students may take no more than one course in one given discipline.

SPN 5536

MUH5067

CPO 6206

REL 5122

REL 5372

REL 5384

REL 5488

ANT 5xxx

ANT 5xxx

ANT 6319

SYD 6705 SYP 6734

WOH 5236

WOH 5237

MUH 5025

5110 B1 - 511 G1	p	Hanshandhai
LIT 5359	African Diaspora Women Writers	African people communities, n
LIT 5358	Black Literature and Literacy/Cultural Theory	contexts. Emp a) leadership to and non-govern
LIN 5934	Pidgins and Creoles	development
LIT 5487	Major African-American Writers	competencies,
LIT 6934	Black Literature & Cultural Theory	examination of health policies,
AFH 5905	Readings in African History	of community evaluation of co
AFH 5935	Topics in African History	black commi Students In t
INR 5086	Islam in International Relations	participate lo appropriate i
INR 5255	Seminar in African Development	that will cult Project for 6 c
INR 6936	Seminar in Inter- American Politics	Thesis or Inte
FRE 5508	La Francophonie	•
HAI 5235	Haitian Creole Seminar	Required Co
HAI 5xxx	Haiti, Language and Culture	AFA 5600
SPW 6368	19th Century Spanish	

Afro-Cuban Culture

History of Popular

States

Politics

Religion

Movements

Music in the United

Seminar in African

African-American

African Spirituality

Advanced African

Performativity

Perspectives Race and Ethnicity

Aging in U.S.

1441-1807

Trade

Rasta, Voodoo, Santeria

Theology and Liberation

Diaspora Cultures and

Representation of Africa

Seminar: Ethnic Minority

The Transatlantic Slave Trade and the Making of the African Diaspora,

The African Diaspora

Since the End of the Slave

and Africans in Films

The African Diaspora: Anthropological

Music of the Caribbean

Transnational Policy SPW 6368 19th Century Spanish-Analysis: Africa and the Caribbean Literature

Diaspora (must be taken in the fall of the 2nd year of enrollment after PAD 5256 and URS 6028) SYA 6305 Research Methods I PAD 6053 Political, Social & Economic Context of

redit hours.

National and

ernship (6 credit

urses (12 credits)

Public Administration **URS 6028** Policy Analysis & Program Planning (Prerequisite: PAD

5256)

Students must take two courses (6 credit hours) from the list below: CPO 5325 Politics of the

	Caribbean
CPO 6206	Seminar in African
	Politics
INR 5087	Ethnicity and the
	Politics of Development
INR 5255	Seminar in African
	Development
INR 5607	International Relations
	and Development
INR 6056	Environment and
	Development
INR 6089	International Relations

and Human Rights Comparative Analysis SYD 6705

of Ethnicity and Race SYD 6236 International Migration

II. National and Transnational **Policy Analysis** (Coordinator - Valerie Patterson. College of Health and Urban Affairs)

Courses will focus on the examination and analysis of National Transnational Policies relevant to African people in Black urban and rural national and international phasis will be placed on raining for governmental nmental agencies: b) the of economic policies, structures, and strategies development; c) the f environmental issues. , wellness and a variety practices; and d) the urrent policies that affect unities internationally. his specialization may an Internship with an institution/organization minate in a Research

1441-1807

76 College	of Arts and Sciences				
	and Refugees		n Diaspora	INR 5086	Islam in International Relations
SYP 5447	Sociology of Inter-		End of the Slave	DID (01)	Seminar in Inter-
	national Development	Trade		INR 6936	American Politics
SYP 6306	Comparative Social	III. Cultural Studies		EDE 6600	La Francophonie
	Movements	(Liaison - James Sw	eet, Dept. of	FRE 5508	Haitian Creole Seminar
INR 5315	Foreign Policy Analysis	History, African New We		HAI 5235	Haiti, Language and
Students mu	st take two courses (6	Students working in this		HAI 5xxx	Culture
) from the list below.	exposed to the study, res	earch practice	SPW 6368	19th Century Spanish-
	uld consult the graduate	and performance, and		SF W 0300	Caribbean Literature
	ector since new courses	cultural formations in		SPN 5536	Afro-Cuban Culture
are frequen	tly added, and special	Diaspora. Interdisciplina			Music of the Caribbean
tonic courses	sometimes concern the	fields such as dance, m	ncic literature	MUH5067 CPO 6206	Seminar in African
African Dias		art, cinema studies, lang		CPO 6206	Politics
	African Diaspora Women	and other related areas v		REL 5122	African-American
LIT 5359	Writers	Students will critically		KEL 3122	Religion
1 IT 52.50	Black Literature and	of a) colonialism, globa		REL 5372	African Spirituality
LIT 5358	Literacy/Cultural	and capitalism and the	eir effects on	REL 5488	Theology and Liberation
	Theory	Africans and peoples		KEL 3400	Movements
7 D 1 5024		descent internationall		ANT 5xxx	Advanced African
LIN 5934	Pidgins and Creoles Major African-American	strategies, traditions an		MINI JAXX	Diaspora Cultures and
LIT 5487	Writers	resistance to the same.	Courses will		Performativity
LIT 6934	Black Literature &	involve comparative stu		ANT 5xxx	Representation of Africa
LII 0934	Cultural Theory	communities in Africa		WIAT NAVY	in Films
AFH 5905	Readings in African	States, the Caribbean,		SYD 6705	Race and Ethnicity
AI 11 3703	History	and Europe, and other	r areas of the	SYP 6734	Seminar: Ethic Minority
AFH 5935	Topics in African	African Diaspora will	be examined;	511 0/51	Aging in U.S.
Al-11 3333	History	critical reading	of cultural	WOH 5237	The African Diaspora
INR 5086	Islam in International		ntities, and	WOII 3237	Since the End of the Slave
INK JOSO	Relations		of dynamics		Trade
INR 6936	Seminar in Inter-	between traditions	and social		
INK 0750	American Politics	transformations.		Course D	escriptions
FRE 5508	La Francophonie				-
HAI 5235	Haitian Creole Seminar	Thesis (6 credit hours)			of Prefixes
HAI 5xxx	Haiti, Language and	Required Courses (1	5 credit hours)	AFA-Africa	n-New World Studies
TILL SALE	Culture	ANT 6319 The Afric	can Diaspora:	AFA 500	2 African-New World
SPW 6368	19th Century Spanish-	Anthropo	ological	Studies: Th	eory and Methods (3). A
52 0000	Caribbean Literature	Perspecti	ives	study of the	he major ideas, thinkers,
SPN 5536	Afro-Cuban Culture	LIT 5487 Black Li	terature and	theories, an	d communities of African
MUH 5025	History of Popular	Cultural	Theory	Diaspora	scholarship. Research
	Music in the United	REL 5384 Rasta, V	oodoo, Santeria	methodolog	y in African Diaspora
	States		and Creoles	Studies.	Prerequisites: Graduate
MUH 5067	Music of the Caribbean		satlantic Slave	standing or	ANWS Certificate.
CPO 6206	Seminar in African		d the Making of	A E A 6105	Tanahina the African-
	Politics		an Diaspora,	AFA 510/	Teaching the African- Experience. (3). Teachers
REL 5122	African-American	1441-18		American	Literature, culture, history,
	Religion			nolitics des	igned to meet Florida State
REL 5372	African Spirituality	From the list below,	oradit hours)		Certification requirements.
REL 5384	Rasta, Voodoo, Santeria	take three courses (9	more than one		instruction on pedagogy,
REL 5488	Theology and Liberation	Students may take no	more than one	practical to	aching methods, and FCAT.
	Movements	course in one given Students should con	ven discipline.		
ANT 5xxx	Advanced African			AFA 560	0 National and Trans-
	Diaspora Cultures and	graduate program dir courses are frequent	tly added and	national	Policy Analysis: The
	Performativity	special topic cour	ces sometimes	African D	diaspora (3). Analysis of
ANT 5xxx	Representation of Africa	concern the African D	ata aumeninea Nacinota		d transnational policies as
	in Films				tly relate and impact the
ANT 6319	The African Diaspora:		Diaspora Women		Diaspora. Prerequisite:
	Anthropological	Writers		Graduate S	tanding.
	Perspectives		African-American	AFA 5032	Special Topics in African-
SYD 6705	Race and Ethnicity	Writers			orld Studies (3). An
SYP 6734	Seminar: Ethnic Minority		iterature &	eyaminatio	n of different features of
	Aging in U.S.		l Theory	African-Ne	
WOH 5236			gs in African	normally	offered in the basic
	Trade and the Making of	History			or otherwise offered. May
	the African Diaspora,		in African	Carricalan	
	1441-1807	History			

History

be repeated. Prerequisites: Graduate Standing.

AFA 5934 Special Topics in Black Transnationalism (3). A course designed to give groups of students special studies in the black experience transnationally. Prerequisites: Graduate Standing.

AFA 6920 African-New World Studies Graduate Colloquium (1). Colloquiums presented by faculty, visiting scholars, and graduate students on topics of current research interest. May be repeated with departmental approval. Prerequisites: Graduate standing, graduate advisor approval.

6940 Community Project/Internship Research in African-New World Studies (1-6). Qualitative and quantitative research using a variety of sources. Research projects conducted in the field by students under faculty supervision. May be repeated with departmental approval. Prerequisites: Graduate standing, graduate advisor approval.

AFA 6971 Thesis Research in African-New World Studies (1-6). Quantitative and qualitative research using a variety of sources, e.g. primary and secondary documents, filed research under faculty supervision. May be repeated with departmental approval. Prerequisites: Graduate standing, graduate advisor approval.

Art and Art History

Carol Damian, Associate Professor and Chair

Tori Arpad, Assistant Professor, Ceramics

Pip Brant, Assistant Professor, Painting/Drawing Ralph F. Buckley, Professor,

Sculpture

William Burke, Professor, Ceramics James M. Couper III, Professor, Painting

Eduardo Del Valle, Professor, Photography

Richard Duncan, Associate Professor, Drawing/Printmaking

Mirta Gomez, Professor, Photography Daniel Guernsey, Assistant Professor Clive King, Professor, Drawing and Director, Graduate

Kate Kretz, Associate Professor, Painting/Drawing

William Maguire, Professor, Photography

Juan Martinez, Associate Professor, Art History

Dahlia Morgan, Professor and Art Museum Director

Geoffrey Olsen, Associate Professor, Graduate Director

Manuel Torres, Professor,

Art History

Barbara Watts, Associate Professor,

Art History

Master of Fine Arts in Visual Arts

The M.F.A. in Visual Arts is an intense, production-oriented program directed toward individual development. The curriculum is designed for maximum flexibility to accommodate both those seeking advanced training in a particular studio area and those whose interests may involve more media cross-over. Graduates of the program will be prepared for careers as professional artists.

Graduate Admission Requirements

1. Bachelor of Fine Arts, Bachelor of Arts, or an equivalent degree.

2. A grade point average of 3.0 or higher at the undergraduate level and/or a score of 1000 on the verbal and quantitative sections of the Graduate Record Examination (GRE).

3. A score of a least 550 on the Test of English as a Foreign Language (TOEFL) and a score of 50 on a Test of spoken English (TSE) for international students.

 Graduate Admission Application Applicants must submit the following to the Graduate Secretary, Department of Art and Art History, University Park Campus, Miami, Florida 33199

1. Department copy of the Admission application submitted to the Admissions Office.

2. A statement of intent (stating area of concentration and if seeking financial assistance).

3. Three letters of recommendation, preferably from previous instructors and/or person's familiar with applicants academic and artistic background.

4. 20 slides of recent work

 SASE for return of slides.
 Deadline date for Application is February 15 for Fall admission.

Degree Requirements

The M.F.A. requires 60 semester hours of course work at the graduate level to be distributed as follows:

Tutorial Instruction in Studio Area Concentration 30

Research for the written account of work will be directed by a faculty committee composed of the candidates's major professor, a member of the studio faculty, and an art historian. The Committee will be formed during the first semester of enrollment and will meet periodically to supervise the candidate's progress during the entire period of study.

Upon completion of twenty hours of course work and prior to the completion of thirty hours, the candidate must submit his/her work to the faculty committee, which will determine the student's progress and capability for continued enrollment in the MFA program. This review will focus on issues such as growth of the student's work, the consistency of production at the graduate level, and the demonstrated ability to fulfill the expectations of a graduate degree. All of the student's work completed by this time will be assembled and reviewed, and the student will be questioned about specific issues related to his/her work. Successful completion of this prerequisite examination is continuing as a candidate for the degree.

In the last semester of enrollment, the candidate will present a graduate exhibition to be displayed in the Art Museum at F.I.U. or at an appropriate alternative space. The exhibition will be curated by the MFA candidate and the members of his/her committee. At the same time, the committee will conduct an oral examination with the candidate. This will take place in the exhibition space during the display of the candidate's graduate exhibition. It will focus on the exhibition and the development of the candidate's work. This examination must be completed successfully in order for the candidate to be awarded his/her degree.

Course Descriptions

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

ARH 5465 Modern Art (3). Offers a history of modern art from ca 1880 to 1940. It concentrates on the study of European and American Avantgarde visual art movements with emphasis between their art and modern society.

ARH 5654 Graduate Art of Spain and her Colonies (3). Course explores art of Spain from 1492 through early 19th century, the encounter between Spain and the Americas after the conquest, and the art of the colonies. Graduate level readings. Prerequisites: Permission of Instructor.

ARH 5671 Seminar in 20th Century Latin American Art (3). This course will examine the art of the 20th century, through seminar focusing on painting and sculpture in Europe and America from the end of the 19th century to the 1940.

ARH 5715 History of Photography (3). A chronological examination of the work of the world's most significant photographers from photographic works and ideas from invention to the present.

ARH 5716 History of Photography Since 1945 (3). An examination of the most significant photographic works, critical concepts, and new trends which have arisen since WWII. Prerequisite: ARH 4710.

ARH 5796 Critical Studies in the Visual Arts (3). Introduction to the methods and concerns of recent art history. Discussion of students' work in context of the contemporary art world.

Prerequisite: ARH 4450 and ARH 4470 or graduate level equivalents.

ARH 5850 Introduction to Museum Studies: History and Philosophy of Museums (3). Introduces the wide range of topics and issues associated with different types of American museums. Museums are examined as cultural, political, and educational institutions. Prerequisite: Graduate Standing.

ARH 5851 Museum Ethics, Policies and Procedures (3). The legal, ethical status of museums and the obligation to the public regarding their governance, policymaking and financial planning. Includes theoretical and practical discussions with attention to museums. Prerequisite: Graduate Standing or permission of instructor.

ARH 5852 Museum Registration
Methods (3). A course in Museum
Registration is designed to provide
Museum Studies students with
competency in all areas of object care,
registration and information
management. Prerequisite: Graduate
Standing.

ARH 5853 Visual Arts Marketing and Market (3). Students seeking a degree in studio art will be able to appraise and present a profolio to an appropriate organization. Prerequisite: Graduate Standing.

ARH 5872 History of Women Artists (3). Surveys the history of women artists with some discussion of the history of images of women.

ARH 5897 Special Topics in Art History (3). Rotating special topics on the graduate level in art history. May be repeated with change of topic. Prerequisite: ARH 4450 and ARH 4470 or graduate level equivalents.

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

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

ARH 5940 Internship Experience (3). Supervised work experience in approved institution. Prerequisite: Permit required. May be repeated.

ART 5159C Jewelry and Metals (3), Advanced jewelry and metalwork. May be repeated. Prerequisites: ART 4156C or equivalent or permssion of the instructor.

ART 5XXXC Time Based Media (3). Graduate work with art forms that are primarily dependent on the passage of time in their construction, documentation, and exhibition. This includes, but is not limited to, live and recorded performance art, public or mixed-media installation, video and computer generated art.

ART 5XXXC Issues of Contemporary Art Seminar (3). Students will attend scheduled seminars led by appropriate faculty. Discussions will examine issues relating to art being currently produced. Exhibitions and publications will be referenced, and professional artists will participate.

ART 5390C Drawing (3). Advanced drawing. May be repeated. Prerequisites: ART 4304C, or equivalent, or Permission of the instructor.

ART 5391C Figure Drawing (3). Advanced figure drawing. May be repeated. Prerequisites: ART 4333C, or equivalent, or Permission of the instructor.

ART 5408C Printmaking (3).
Advanced printmaking. May be repeated. Prerequisites: ART 4404C, or equivalent or Permission of the instructor.

ART 5580C Painting (3). Advanced painting. May be repeated. Prerequisites: ART 4513 or equivalent, or Permission of the instructor.

ART 5685C Advanced Time Art (3). Advanced course to refine students' skills in electronic and digital media production. Students are required to produce a multidisciplinary project. Prerequisite: ART 3681 or permission of the instructor.

ART 5740C Sculpture (3). Advanced sculpture. May be repeated. Prerequisites: ART 4705C or equivalent, or Permission of the instructor.

ART 5790C 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 5792C Figure Sculpture (3). Advanced Figure Sculpture. May be repeated. Prerequisites: Figure Sculpture IV or Permission of the instructor.

ART 5813C Graduate Installation Art (3). This topic course will explore the genre of installation and site-specific art through history and in terms of its ongoing influence on contemporary visual culture. MFA students will be required to develop slide lectures in conjunction with installation. Prerequisites: Permission of Instructor.

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

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

ART 5930C Special Topics in Studio Art (3). Rotating special topics in Studio Arts. May be repeated with change of content.

ART 5938C Studio Art Pedagogy (I). Instruction in the principles and methods of teaching in the area of visual arts; specifically the application of these principles to the studio situation. Prerequisite: Graduate standing.

ART 5939C Studio Art Seminar (3). Students will locate and discuss their own work within the context of the contemporary art world. Also, issues and practical concerns for the professional artist will be addressed, such as dealing with guidelines, grant writing and business procedures. Prerequisite: Issues of Contemporary Art Seminar.

ART 6971 Graduate Prospectus and Exhibition Preparation (3). Final preparation of work for museum exhibition accompanied by a written discussion of work. Required for MFA students. Prerequisites: Completion of graduate program courses.

PGY 5116C Color Photography (3). Advanced color photography. (See PGY 4113). Prerequisite: PGY 4113C.

PGY 5425C Photography (3). Advanced photography. May be repeated. Prerequisite: PGY 4003C, or equivalent, or Permission of the instructor.

Biological Sciences

James Fourqurean, Associate Professor and Chairperson Victor Apanius, Assistant Professor Brad Bennett, Associate Professor Charles Bigger, Associate Professor Christopher Brown, Professor.

Associate Chairperson and Marine Biology Program Director Richard Campbell, Research Scientist Chun-fan Chen, Associate Professor Dan Childers, Associate Professor Tim Collins, Associate Professor Maureen Donnelly, Associate Professor

Kelsey Downum, Professor and Associate Dean for Research Javier Francisco-Ortega, Assistant Professor

Evelyn Gaiser, Assistant Professor Robert M. George, Lecturer Walter M. Goldberg, Professor and Associate Chairperson Gerald Guala, Research Scientist

Jack B. Fisher, Research Scientist Rene J. Herrera, Associate Professor Frank Jochem, Assistant Professor Ronald D. Jones, Professor Christopher Kernan, Research

Scientist Suzanne Koptur, Professor

Julia Kornegay, Research Scientist Lidia Kos, Assistant Professor David N. Kuhn, Associate Professor David W. Lee, Professor Carl Lewis, Research Scientist John Makemson, Professor Joyce Maschinski, Research Scientist Kalai Mathee, Assistant Professor Mike Maunder, Research Scientist Steven F. Oberbauer, Professor Case K. Okubo, Associate Professor and Undergraduate Program Director

Tom Philippi, Assistant Professor John Pipoly, Research Scientist Thomas R. Pitzer, Instructor and Teaching Assistant Coordinator Thomas E. Pliske, Lecturer Jennifer Richards, Professor Laurie L. Richardson, Associate

Professor

Barbra A. Roller, Lecturer Philip Stoddard, Associate Professor Martin L. Tracey, Professor Joel Trexler, Professor and Graduate

Program Director Ophelia I. Weeks, Associate Professor

Scott Zona, Research Scientist

Master of Science in Biology

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

- I. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
- 2. Have a 3.0 average or higher during the last two years of the undergraduate program and a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam.
- 3. Two letters of recommendation of the student's academic potential.
 - 4. Be accepted by a faculty sponsor.
- 5. Receive approval from the Departmental Graduate Committee.
- 6. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher (220 on computer-based TOEFL).

Degree Requirements

The Master of Science in Biology consists of a minimum 36 credits, including a thesis based upon the student's original research. maximum of six credits of postbaccalaureate course work may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses

BSC 6457	Introduction to	
	Biological Research	3
BSC 5931	Thesis Proposal Semi	narI
BSC 5975	Thesis Defense Semin	ar 1
	Workshops and	
	Laboratories1	4
BSC 6971	Master's Thesis ²	6
Electives ³		

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

Foreign language competency4

² To be taken after qualifying exam is passed.

These must include at least 16 credits

of courses in the Department of Biological Sciences. No more than six credits can be transferred from another graduate program, subject to the approval of the Graduate Committee. At least six credits must be at the 5000or 6000-level (excluding thesis credits). Credits taken at the 4000-level beyond six, or at a lower levels, will not count towards graduation.

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

Graduation Requirements

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

Doctor of Philosophy in Biology

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

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

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

3. Have a combined score (verbal and quantitative) of 1120 on the general Graduate Record Exam (GRE).

- 4. Be sponsored by a Biology faculty member.
- 5. Arrange to have three letters of recommendation sent to the Biology Graduate Program Director evaluating the applicant's potential for graduate work
- 6. Receive approval from the Departmental Graduate Committee.
- 7. Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or (220 on computer-based higher TOEFL).

Degree Requirements

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

Required Courses

BSC 7981	Dissertation Proposal Seminar	1
DCC 5000		1
BSC 7982	Dissertation Defense	
	Seminar	1
BSC 5945	Supervised Teaching in	
	Biology	2
Workshops ar	nd Laboratories ¹	4
BSC 7980	Ph.D. Dissertation	24
Electives ²		8
Foreign Lang	uage Competency ³	

Recommended course

BSC 6457 Intro to Biological Research 3

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

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

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

Graduation Requirements

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

Course Descriptions

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

Definition of Prefixes

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

BCH 5134C Workshop in Chromatography Techniques (1). Workshop covers the theory and practice of

chromatographic techniques to separate complex mixtures of biomolecules, including absorption, ion exchange, size exclusion and affinity chromatography. Prerequisite: Graduate status.

BCH 5411C Techniques in Molecular Evolution Research (5).

Ribosomal genes from related organisms are amplified by polymerase chain reaction (PCR) and sequenced. Phylogenetic maps are made by computer from sequence data. Students may use material from their own research. Prerequisites: General Biochemistry BCH 3033 and Lab BCH 3033L, Molecular Biology PCB 4524 and Lab PCB 4524L or Graduate status.

BCH 6130C Workshop in DNA Synthesis and Amplification (1). Workshop in the chemical synthesis of DNA and the amplification of specific genes by the polymerase chain reaction (PCR). Students may synthesize DNA oligonucleotides for use in their own research. Prerequisite: Graduate status and Permission of the instructor.

BCH 6131C Workshop in Radioisotope Use and Safety (1). Workshop in the safe use of radioisotopes in biological and biochemical experimentation, labelling of biochemical compounds, purification of labelled compounds, and instrumentation involved in detection of radiosiotopes. Prerequisite: Graduate status and Permission of the instructor.

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

BCH 6133C Workshop in DNA Sequencing (1). Workshop in the manual and automated sequencing of DNA. Students may sequence DNA from their own research. Prerequisite: Graduate status and Permission of the instructor.

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

BOT 5159C Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the

state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: Ecology PCB 3043 or Permission of the instructor

BOT 5406 Algal Physiology (3). Physiology and metabolism of eukaryotic algae, including ecological aspects of the aquatic environment and algal roles in aquatic biogeochemical cycling. Prerequisites: Phycology BOT 4404 and one year of chemistry or instructor consent.

BOT 5515 Biochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including biosynthesis and degradation of natural products as well as their biological/pharmacological activity. Prerequisite:
Organic Chemistry II CHM 2211 or General Biochemistry BCH 3033.

BOT 5575 Photobiology (3) BOT 5575L Photobiology Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as photosynthesis, plant growth, animal vision, biolumine-scence, and radiation damage. Prerequisite Permission of the instructor.

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

BOT 5605 Plant Ecology (3) BOT 5605L Plant Ecology Labora-tory (1). In-depth study of plant ecology at three levels: individual, population, and community. Laboratory and field exercises will examine lecture topics. Prerequisites: Ecology PCB 3043 or Permission of the instructor. Corequisite: Concurrent registration of lecture in lab course.

BOT 5615 Workshop: Seed Conservation (1). Covers practice issues of seed conservation of tropical plants: longevity curves, seed germination protocols and seed conservation procedures. Prerequisites: Graduate students or permission of instructor.

BOT 5647 Ecology of Marine Vascular Plants (3). Biology and ecology of seagrasses and mangroves,

with an emphasis on South Florida and Caribbean species. Physiological ecology, population and community ecology, and ecosystem processes. Prerequisite: Permission of the instructor.

BOT 5648 Workshop on Aquatic Plants (1). Biology and identification of aquatic plants. Prerequisites: Graduate status or Permission of the instructor.

BOT 5682C Florida Plant Commun-Ities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: Ecology PCB 3043 or Permission of the instructor.

BOT 5704 Botanical Terminology, Latin and Nomenclature (2). Course is divided into 3 parts: 1) Botanical Latin and its use; 2) Plant description terminology, and current descriptive standards: and 3) Botanical nomeclature, the ICBN, Phylocode, and others. Prerequisites: Plants Systematics (BOT 5725C) Systematic Biology (BSC 5606), or approval of the Advisor.

BOT 5725C Plant Systematics (3). Theory and methods of classification of vascular plants using phylogenetic principles. Covers the integration of morphological and molecular characters. Prerequisites: Graduate students or permission of instructor.

BOT 5727 Plant Genetics (3), Topics related to higher plants, including polyploid inheritance, selfincompatibility, cytoplasmic inheritance, mutable alleles, complex loci, genome analysis, recombination and mutagesis. Prerequisites: General Biology I (BSC 1010) and General Biology II (BSC 1011) and Genetics (PCB3063).

BOT 5728 Plant Molecular Systematics (2). DNA markers for phylogenetic analysis of vascular plants, including description of laboatory methods, computerized analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5728L Plant Molecular Systematics Laboratory (2), DNA markers for phylogenetic analysis of vascular plants, including description of laboratory methods, computerized

analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5816 Ethnobotany (3), Review the use and management of plants by indigenous people. Discuss emerging theories in ethnobotany, examine the role of ethnobotany in conservation and resource utilization. Prerequisites: Economic Botany BOT 3810, Tropical Botany BOT 3663, or Cultural Ecology ANT 3403, or Permission of the instructor.

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

BOT 5817 Field Ethnobotany (1-4). A 4-week field course that introduces students to tropical vegetation and its use by traditional cultures. Topics include tropical botany, diversity, ecology, and the relationship between plants and people. Course may be repeated. Prerequisites: BOT 5816 and BOT 5816L or permission of instructor.

BOT 5852 Medical Botany (3). An examination of medicinal plants including the biology, chemistry, and pharmacology of botanical remedies. and their effects on human health. Prerequisites: Economic Botany or BOT 5816 or permission of instructor.

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

BOT 5925 Workshop in the Biology of Southern Florida's Native Trees (3). Distribution, floristic relationships. morphology, reproductive biology, taxonomy, and conservation of trees native to southern Florida. Prereguisites: Local Flora BOT 3153, Tropical Botany BOT 3663, or permission of the instructor.

BOT 5928 Workshop on Grasses and Sedges of Southern Florida (1). The systematics, ecology, and identification of South Florida grasses and sedges. Prerequisite: Graduate status or permission of the instructor.

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

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

BOT 6645 Workshop in Field and Laboratory Techniques for Seagrass Ecology (1). Field and laboratory methods used in the study of seagrass communities. The course emphasizes ecological and physiological measurement methods. Prerequisite: Permission of the instructor.

BOT 6724 Readings in Pollination Biology (1). Current literature on pollination, including natural history, theory, experimental studies, and reviews. Prerequisite: Graduate status or permission of the instructor.

BOT 6818 Readings in Ethnohotany (1). An examination of 3 or 4 recent books in the ethnobotany or related disciplines, especially those dealing with theoretical issues. Prerequisites: BOT 5816, Graduate Standing, or permission of instructor.

BOT 6901 Readings in Plant Mating Systems (1). Current literature on theory, biology, and evolution of plant mating systems. Prerequisites: Graduate standing or Permission of the instructor.

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

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

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

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

BOT 6926C Workshop in Plant
Nutrient Analysis (1). Field and
laboratory methods used in the
assessment of nutrient availability for
primary producers. Prerequisite:
Permission of the instructor.

BOT 6928 Workshop on Plant Gas Exchange and Fluorescence (1). Field and laboratory methods used for measurement of plant photosynthetic production and transportation. Prerequisite: Permission of the instructor.

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

BOT 6936 Readings in Plant/Animal Interactions (1). Current literature on coevolution of plants and animals, theory, experimental studies, and reviews. Prerequisite: Graduate standing or permission of the instructor.

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

BSC 5302 Ecosystems of the Past (3).
Analysis of local to global change in environments through time using faunal distributions, biogeography, physical and chemical properties of sediments, and stable isotopes. Prerequisite: Permission of the instructor.

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

BSC 5405C Environmental Instrumentation (3). Theory and techniques for measurement of environmental parameters of interest to field biologist.

Prerequisite: Permission of the instructor.

BSC 5406 Forensic Biology (3).
Forensic applications of molecular biology including PCR, STR techniques and other laboratory methods and data interpretation.
Prerequisite: Graduate status.

BSC 5409C Biology Laboratory Instrumentation for Secondary Teachers I (3). Principles and practice of selected instrumental techniques. Spectrophotometry, electrical measurements and separatory techniques. Not for BSC majors. Prerequisites: Three undergraduate credits in physics, three in chemistry, and six in biology.

BSC 5416C Workshop in Cell Culture Methods and Applications (1). Utilization of primary and established cells to study growth cell cycle, chromosomes, cell differentian. Special applications to basic problems in cell molecular biology. Prerequisites: Permission of the instructor and graduate status.

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

BSC 5926 Graduate Bioresource Workshop (1). This workshop is designed to introduce Biology graduate students to the various resources available for graduate teaching and research. Prerequisite: Graduate status.

BSC 5927 Workshop: Hyper-spectral Remote Sensing in Biology (1). Basic understanding of principles, techniques and application of hyperspectral remote sensing of the Earth's natural environments. Prerequisites: Graduate Status or permission of Instructor.

BSC 5928 Workshop: Vertebrate Animal Research (1). Reviews the ethical, legal and practical guideline for conducting research with live vertebrate animals. Required for students capturing, handling or collecting vertebrate animals in the course of research or teaching. Pereequisite: Graduate status or permission of the instructor.

BSC 5929 Workshop: Ecology of Shelled Protists (1). Sampling, preparation, and identification of diatoms and foraminifera from a freshwater to marine transect, and application of ecology to interpreting past ecosystems. Prerequisites:

BSC 5931 Thesis Proposal Seminar (1). Presentation of thesis proposal seminar. Permission of major professor required.

BSC 5933 Current Topics in Tropical Biology (3). An intensive study of particular tropical biology topics not otherwise offered in the curriculum. Prerequisite: Permission of the instructor.

BSC 5935, 6936 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Senior or graduate status.

BSC 5936 Glaser Seminar: The Biology of Tomorrow (1). A series of lectures by an invited, internationally recognized authority in biological topics of current and future concern.

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

BSC 5975 Thesis Defeuse Seminar (1). Presentation of thesis defense seminar. Permission of major professor required. Prerequisite: Thesis proposal seminar.

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

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

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

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

Prerequisite: Permission of the instructor.

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

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

BSC 7961 Dissertation Proposal Seminar (1). Presentation of doctoral dissertation proposal seminar. Prerequisite: Permission of Major Professor required.

BSC 7980 Ph.D. Dissertation (1-12). Completion of dissertation, Prerequisite: Permission of Major Professor and Doctoral Candidacy.

BSC 7982 Dissertation Defense Seminar (1). Presentation of doctoral dissertation defense seminar. Permission of Major Professor required. Prerequisite: Dissertation Proposal Seminar.

MCB 5114 Microbial Diversity (3) MCB 5114L Microbial Diversity Laboratory (1). Analysis of metabolic and morphological diversity in bacteria in the context of bacterial systematics. Prerequisites: General Microbiology MCB 3010 and Lab MCB 3010L and an additional course in microbiology or biochemistry. Corequisite: Concurrent registration of both lecture and lab courses.

MCB 5315C Workshop: Prokaryotic Cloning (2). Description of molecular genetic methods for manipulation of prokarvotic DNA. Prerequisites: Genetics PCB 3513 and Biochemistry BCH 3033 or permission of instructor.

MCB 5405 Biology of Photosynthetic Bacteria (3). MCB 5405L Biology of Photosynthetic Bacteria Lab (1). Study of the physiology and ecology of photosynthetic bacteria, including Blue-green algae (cyanobacteria), purple and green bacteria, and Halobacteria.

MCB 5453L Workshop: Prokaryotic Cell Signaling (1). Covers chemical signals used by prokaryotes for cell-tocell communications. Prerequisites: General Microbiology MCB 3010 or permission of instructor.

MCB 5505 Virology (3) MCB 5505L Virology Lab (1). Principles and methods of study of bacterial, plant, and animal viruses. Molecular aspects of viral development, virus pathogens, and carcinogens. Prerequisites: General Biochemistry PCB 3033, Genetics PCB 3063, and Organic Chemistry 1 CHM 2210.

MCB 5605 Microbial Ecology (3). Principles and applications of microbial interactions with the environment. Current research areas are emphasized. Prerequisite: Graduate Level Standing.

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

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

MCB 6635 Marine Microbiology (3) MCB 6635L Marine Microbiology Lab (1). Physiological-ecological study of the distribution and biology of marine bacteria; diseases of marine animals: bacterial role in oceanic mineral cycling. Prerequisites: General Microbiology MCB 3010 & Lab MCB 3010L and General Biochemistry BCH 3033 & Lab BCH 3033L or Microbial Physiology MCB 4404 and Lab MCB 44041.

MCB 6920 Luminescence Workshop (2). Bioluminescence and chemiluminescent theory and methods applied to luminous bacteria and molecular biology. Prerequisite: Permission of the instructor.

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

OCB 5575L Workshop: Aquatic Flow Cytometry (1). A practical introduction theories to applications of flow cytometry in the analyses of aquatic microorganisms (bacteria, phytoplankton) and their physiology. Prerequisite: Instructor's permission.

OCB 5634 Marine Ecology (3) OCB 5634L Marine Ecology Lab (1). Review processes determining species distribution and abundance in marine ecosystems. Energy flow and trophic relationships examined. Prerequisite: Ecology PCB 3043. Corequisite: Concurrent registration of lecture with lab course.

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

PCB 5025L Molecular Biology Techniques Laboratory (3). Covers DNA and RNA extraction, digestion, electrophoresis, Southern analysis, RFLP analysis, PCR amplification, cloning and automated sequencing. Prerequisites: Graduate status or permission of instructor.

PCB 5184 Workshop in Microtechnique (1). Laboratory techniques required for preparation of tissues for light microscopy/histological study. Prerequisite: Graduate status.

PCB 5195 Histochemistry/Microtechnique (3) PCB 5195L Histochemistry/ Microtechnique Lab (1). Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathology labs including techniques for enzymes, protein, carbohydrate, nucleic acids and Prerequisite: General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5215 Workshop In Histo-and 1mmunocyto-Chemistry (1). Laboratory techniques for preparation of paraffin-embedded and frozen sections; selected procedures to demonstrate the fundamentals of histochemical and immunocytochem-ical labeling methods. Prerequisite: Graduate status or permission of the instructor.

PCB 5235 Current Topics in Comparative Immunology (1). A weekly seminar/discussion course consisting of research presentations by students, faculty and visiting scientists the area of comparative immunology. It is recommended for students with a research interest in the comparative study of mamalian and nonmamalian species or using alternative animal models. Prerequisites: Permission of Instructor.

PCB 5236 Immune Assessment (3). A review of the genetics and biochemistry of immune dysfunction with a focus on the methods used to evaluate adaptive and innate immunological function. Prerequisites: PCB 4233 or Permission of Instructor.

PCB 5238 Marine Comparative Immunology Workshop (1). A workshop at the Keys Marine Lab to present general and unique research methodologies associated with the immunology of marine animals. Prerequisite: Permission of the instructor.

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

PCB 5307 Limnology (3) PCB 5307L Limnology (1). Chemical and physical properties of standing and flowing freshwater systems; ecophysiology and interactions of the fresh water flora and fauna in relation to abiotic factors; oligotrophic to eutrophic conditions.

PCB 5327 Coastal Ecosystems and Modeling (3). Basics of ecology for coastal and wetland ecosystems. The theory and mechanisms of simulation modeling. Hands-on creation and application of computer models in ecological research. Prerequisites: Ecology PCB 3043 and Calculus I MAC 2311 or Permission of the instructor.

PCB 5328 Spatial and Landscape Ecology (3). Ecological processes with spatial components, including neighborhood intercations, foraging, metapopulations, infectious diseases, invasive species, and habitat associations. Prerequisites: PCB 5423 Advanced Ecology — Population and Community. Corequisite: PCB 5454 Advanced Ecology — Community Ecosystems; MAC 2311 Calculus.

PCB 5356L Tropical Ecology Field Lab (3). Field course in Costa Rica with fieldwork in two or more diverse habitats (rainforest, and dry forest). Emphasis on diversity and interactions between species. Visits to selected sites of deforestation, conservation and restoration.

PCB 5358 Everglades Research and Resources Management (3). Application of basic skills in ecology to contemporary issues in the Everglades area, with emphasis on the relation between research and management of

wilderness, wildlife, vegetation, water and fire. Prerequisite: Ecology PCB 3043 or Permission of the instructor.

PCB 5376 Animal Physiological Ecology (3) PCB 5376L Animal Physiological Ecology Laboratory (1). Evolution-oriented approach to physiological adaptations of animals living in diverse environments. Considers the inter relationship between behavior, energetics, and integrative regulation of metabolism. Prerequisite: Ecology PCB 3043 and Biochemistry BCH 3033. Corequisite: Concurrent registration of lecture with lab course.

PCB 5405 Biochemical Ecology (3). Principles of chemical communication between diverse organisms and the importance of a variety of allelochemicals in community structure. Prerequisite: Permission of the instructor.

PCB 5407 Workshop: Microelectrodes in Microbial Ecology (1). Use of microelectrodes to measure chemical microenvironments and biological processes in natural samples. Hands-on experience with O₂ and pH electrodes. Prerequisite: Permission of the instructor.

PCB 5423 Advanced Ecology:
Populations and Communities (3).
Advanced analysis of population and community ecology. Prerequisites:
Ecology PCB 3043 or Permission of the instructor or graduate status.

PCB 5454 Advanced Ecology:
Communities and Ecosystems (3).
Advanced analysis of ecological
principles pertaining to communities,
ecosystems, and landscapes, with
special emphasis on the South Florida
and Caribbean region. Prerequisites:
Ecology PCB 3043 or permission of
the instructor or graduate status.

PCB 5596 Workshop: In Situ Hybridization (I). Analysis of gene expression by in situ hybridization techniques using whole mount and crysectioned tissues. Prerequisite: Graduate status or permission of the instructor.

PCB 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisites: Genetics PCB 3063 and General Biochemistry BCH 3033. PCB 5616 Applied Phylogenetics (3). Methods of phylogenetic analysis with a focus on pragmatic applications to ecological and evolutionary studies. Hands-on experience with current computer programs for phylogenetic analysis. Prerequisite: Graduate status or permission of the instructor.

PCB 5665 Human Genetics (3) PCB 5665L Human Genetics Lab (2). Principles and techniques in the analysis of humans and primates. Prerequisites: Genetics PCB 3063 and Lab PCB 3063L, or permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

PCB 5676 Evolution and Development of Sex (3). The evolutionary explanations for the evolution of sexual reproduction and models of sexual differentiation. Prerequisites: Genetics PCB 3063 and Evolution PCB 4674 or Permission of the instructor.

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

PCB 5685 Population Genetics (3). Advanced analysis of gene and genotype frequencies in theoretical populations and analysis of real data. Linkage equilibrium, drift, migration and selection are a few of the topics covered. Prerequisite: Genetics (PCB 3063).

PCB 5686 Population Biology (3). PCB 5686L Population Biology Lab (1). Intrinsic properties of natural and theoretical populations and their dynamics and interactions, and responses to disturbance. Includes field problems and computer exercises. Prerequisite: A course in genetics and evolution, or Permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

PCB 5687 Evolutionary Ecology (3).
PCB 5687L Evolutionary Ecology
Lab (1). Adaptations and interactions
of plants and animals in natural and
disturbed habitats. Prerequisite:
Ecology PCB 3043.

PCB 5785 Membrane Signal Transduction (3). Hormones and neurotransmitters as extracellular messengers. Membrane receptors and mechanisms of signal transduction: membrane channels and enzymes, direct linkage and G-protein linkage.

Second messengers. Prerequisites: General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5786 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transduction. Prerequisites: General Physics I PHY 3048, General Physics II PHY 3049 and General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5835 Neurophysiology (3) PCB 5835L Neurophysiology (1), Comparative neurophysiology; physicochemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequisites: Biochemistry BCH 3033 or Cell Physiology PCB 3203, and Calculus 1 MAC 2311.

PCB 5902 Readings in Stable Isotope Studies (1). Discussion of scientific papers published in the fields of isotope ecology and isotope biogeochemistry. Prerequisites: Graduate status or permission of the instructor.

PCB 5934 Topics in Skeletal Muscle Physiology (4), Advanced discussion of some aspects of the biophysics, biochemistry and physiology of skeletal muscle contraction. Topics may vary from year to year. Based on review articles and research papers. Prerequisite: Human Systemic Physiology 1 PCB 4733 or Human Physiology PCB 3703 and Cell Physiology PCB 3203 or General Biochemisty BCH 3033.

5938 Ecosystem Studies PCB Seminar (3). Theory and practice of ecosystem analysis, based on discussion of current articles and books. Emphasis on using different approaches to understand natural complexity. with case studies researched by students. Prerequisites: Ecology PCB 3043 or permission of the instructor.

PCB 6025 Molecular and Cellular Biology I (3). Protein structure, catalysis, kinetics, and molecular conformation, intermolecular forces; Prokarvotic recombination. transcription and translation, gene regulation and genome organization. Prerequisites: Graduate status.

PCB 6027 Molecular and Cellular Biology II (3). Eukarvotic recombination, transcription, translation, gene regulation and genome organization; Cellular components, cell structure, cell division, cell signaling, development, immonology and cancer, Prerequisites: Graduate status.

PCB 6176C Biological Electron Microscopy (5). Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of the instructor.

PCB 6236 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of the instructor.

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

PCB 6318 Readings in Marine Ecosystems Ecology (1). Analysis of current literature on theory, data and case studies of marine ecosystem ecology. Prerequisite: Graduate status or permission of the instructor.

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

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

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

PCB 6617 Advanced Phylogenetics (3). Current Issues and methods in phylogenetics for advanced students. Prerequisites: Applied phylogenetics PCB 5616 or 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 6926 Workshop Biology-Spatial Analysis and GIS (1-2). Introduction to interpretation and quantitative analysis of spatial data, use of computer-based image processing and Geographic Information Systems as tools for research, application to South Florida landscapes. Prerequisite: Permission of the instructor.

PCB 6933 Trends in Neurobiology (2). Critical analyses and discussions of selected research articles of current interests. Seminar format. Prerequisite: Permission of the instructor.

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

PCB 7235 Reproductive Immunglogy (3), Molecular and cellular interactions in early development, ontogenetics, and mother and fetus. Prerequisite: Permission of the instructor.

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

ZOO 5265 Biology of Crustaceans (3), ZOO 5265L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5371 Clinical Anatomy of the Trunk and Limbs (3). ZOO 5371L Clinical Anatomy of the Trunk and Limbs Lab (1). A detailed analysis of the anatomical foundations of kinesology and physical rehabilitation. Special emphasis will be placed on the functional anatomy of the trunk, pectoral and pelvic limbs with clinical correlations to the major disorders commonly treated by physical and occupational therapists. Prerequisites: ZOO 3731 or ZOO 3734. Corequisite:

Clinical Anatomy of the Trunk and Limbs Lab.

ZOO 5376 Animal Design and Movement (4). Basic biomechanical and behavioral theories of how animals feed and move. Prerequisities: General Biology I BSC 1010, and II BSC 1011, Physics I PHY 2053 and II PHY 2054, [D]

ZOO 5424 Herpetology (3) ZOO 5424L Herpetology Laboratory (1). Biology of amphibians and reptiles from a systematic perspective. The three orders of living amphibians and the six living orders of reptiles are covered in detail. Prerequisite: General Biology I BSC 1010 and General Biology II BSC 1011, Ecology PCB 3043, or per-mission of the instructor. Concurrent registration of lecture with lab course.

ZOO 5456 Ichthyology (3) ZOO 5456L Ichthyology Lab (1). Systematics, structure, function, ecology, and evolution of fishes. Prerequisites: General Biology I BSC 1010, General Biology II BSC 1011 and Ecology PCB 3043. Corequisite: Concurrent registration of lecture with lab course.

ZOO 5479 Workshop in Field Ornithology: Mark and Recapture Methods (1). Instruction in techniques of banding wild birds, including their capture with mist nets, identification in the hand, and maintenance of federally required records. Prerequisites: Ornithology ZOO 4472 and Lab ZOO 4472L or permission of the instructor.

ZOO 5732 Advanced Anatomy Demonstration (1-4). Dissection and demonstration of the human body with the emphasis on structure and function. May be repeated to a maximum of eight credits. Prerequisite: Human Gross Anatomy I ZOO 3733 and Lab ZOO 3733L, Human Gross Anatomy II ZOO 3734L or permission of the instructor.

ZOO 5745 Advanced Neuroanatomy (3). In-depth knowledge of the embryonic development, structure, and function of the human nervous system with a great deal of clinical consideration. Prerequisite: Neuroscience ZOO 4743 or permission of the instructor.

ZOO 5746 Comparative Neurobiology (4). Structure and function of neural systems at many levels including biophysical and cellular mechanisms, molecular processes, neural

circuits, development, and anatomy. Prerequisite: Graduate status or permission of the instructor.

ZOO 6460 Workshop on Reptile and Amphibian Sampling (1). Biology and sampling methods for reptiles and amphibians. Prerequisite: Graduate status.

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

Chemistry

Stanislaw F. Wnuk, Associate Professor and Chairperson Jose Almirall, Assistant Professor David Becker, Associate Professor Yong Cai, Assistant Professor David Chatfield, Associate Professor

Kenneth G. Furton, Professor and Associate Dean

Piero R. Gardinali, Assistant Professor

Arthur W. Herriott, Professor and Dean

Rudolf Jaffe, Professor Jeffrey A. Joens, Professor

Konstantinos Kavallieratos, Assistant Professor

Leonard S. Keller, Professor, Undergraduate Program Director and Coordinator of Organic Chemistry Laboratories John T. Landrum, Professor

Fenfei Leng, Assistant Professor Janet Lineback, Professor

Ramon Lopez de la Vega, Associate Professor

Kevin E. O'Shea, Associate Professor, Graduate Program Director

J. Martin Quirke, Professor Kathleen Rein, Assistant Professor Stephen Winkle, Associate Professor

Graduate Admission Requirements:

A minimum undergraduate grade point average of 3.0/4.0 in chemistry and cognate science and GRE score of 1000 (verbal + quantitative) or greater are required except by special permission of the graduate committee. Students are also encouraged to take the GRE chemistry subject exam. Students whose native language is not English must score 550 or higher on the Test of English as a Foreign Language (TOEFL).

Students whose undergraduate degree is not equivalent to the American Chemical Society certified Bachelor of Science degree chemistry shall make up deficiencies prior to taking graduate courses in the areas where such deficiencies exist. For example, students who have not completed quantum mechanics or instrumental analysis must complete Graduate Physical Chemistry (CHM 5425) and Graduate Analytical Methods (CHM 5150). Students are required to make up deficiencies before they can be admitted into the Ph.D. program.

Every student entering the graduate program in chemistry will be required to take two entrance/proficiency examinations covering standard undergraduate-level material in organic chemistry and physcial chemistry (thermodynamics and kinetics). The proficiency exams will be administered to incoming graduate students in the week preceding the fall and spring semesters. If a student does not receive a grade of "pass" on the organic chemistry proficiency exam, the student must show proficiency by completing Graduate Organic Chemistry (CHM 5225) with a grade of "B" (3.0/4.0) or higher. If a student does not receive a grade of "pass" on the physical chemistry proficiency exam, the student must show proficiency by completing Graduate Physical Chemistry (CHM 5425) with a grade of "B" (3.0/4.0) or higher. Students must show proficiency in these two areas by the end of their first semester, or they will be dismissed from the program.

Full-time graduate students generally serve as a Teaching Assistant (TA) in the Department of Chemistry for their first semester. Ph.D. candidates must serve for not less than one year as a teaching assistant. This requirement will be waived only when, in the opinion of the department, unusual circumstances justify such TA's are awarded on a action. competitive basis, require a minimum cumulative GPA of 3.0, and are continued for up to two years for M.S. students and four years for Ph.D. students who maintain acceptable academic performance. Graduate students must maintain a 3.0/4.0 GPA (only courses required by the graduate program will be counted in the GPA). If the GPA drops below a 3.0 for one semester, the student will be placed on academic probation. A student who fails to raise his/her GPA to 3.0 or higher in two semesters will be dismissed from the program.

A limited number of Graduate Research Assistantships (RA's) are available after the student's first semester and are awarded on a competitive basis by the individual faculty members who have externally funded research projects.

Formal admission to the M.S. and Ph.D. programs and awards of teaching assistantships are granted by the Graduate Program Director based on a ranking of graduate applicants by the Graduate Committee.

Master of Science in Chemistry

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

1. A minimum of 32 credits of course work, a grade of 'C' or higher must be obtained in all courses with a cumulative grade point average of 3.0 or higher which must include:

 At least 9 credits of chemistry in at least three of the five major areas of chemistry (Analytical, Bio-chemistry, Inorganic, Organic, Physical) as listed below:

Analytical CHM 5156 Advanced Chromatography CHM 6157 Advanced Analytical Chemistry **Biochemistry** CHM 5506 Physical Biochemistry

Inorganic CHM 5440 Kinetics and Catalysis CHM 5540 Group Theory in

Chemistry CHM 5650 Physical Inorganic Chemistry

Organic CHM 5250 Organic Synthesis CHM 5236 Spectroscopic Techniques and Structure Elucidation CHM 5260 Physical Organic Chemistry

Physical CHM 5490 Physical Spectroscopy CHM 5540 Group Theory in Chemistry

CHM 6430 Advanced Thermodynamics CHM 6461 Statistical

Thermodynamics CHM 6480 Ouantum Mechanics

CHM 5423 Atmospheric Chemistry Courses not listed above may be counted as courses in one of the five areas with prior departmental approval.

a) At least 9 credits of additional graduate-level chemistry courses (excluding research and seminar) approved by the thesis committee in consultation with the Graduate Program Director with the following guidelines:

(1) The courses must be 5000 or 6000 level chemistry courses (CHM prefixes) or approved cognates (up to a maximum of six credits) and

- (2) The following courses cannot count towards the 18 credits:
 Graduate Analytical Methods (CHM 5150); Graduate Organic Chemistry (CHM 5225) and Graduate Physical Chemistry (CHM 5425).
- c) Full time graduate students are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
- d) Full time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
- e) At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must give a seminar at the colloquium for a letter grade in their second semester of graduate study.
- f) At least nine credits of CHM 6970 (Thesis Research) involving independent thesis research under the direction of a faculty member in the department.
- g) At least two credits of CHM 6971 (Thesis) taken in the semester in which the MS thesis is to be defended.
- Submission and public presentation of a satisfactory research thesis as determined by the student's thesis committee.

The thesis committee will consist of the research advisor, a randomly-chosen committee member chosen by the graduate program director, and at least one additional committee member who has some expertise in the graduate student's research area.

Doctor of Philosophy in Chemistry

The requirements for completion of the Doctor of Philosophy degree in chemistry are:

- 1. A minimum of ninety (90) credits of course work. A grade of "C" or higher must be obtained in all courses with a cumulative GPA of 3.0 or higher. The courses must include:
 - a) At least nine credits of chemistry courses in at least two of the five major areas of chemistry (Analytical, Biochemistry, Inorganic, Organic, and Physical) as listed below:

Analytical

CHM 5156 Advanced Chromatograhy
CHM 6157 Advanced Analytical
Chemistry

Biochemistry CHM 5506 Physical Biochemistry Inorganic
CHM 5440 Kinetics and Catalysis
CHM 5650 Physical Inorganic

Chemistry

Organic CHM 5250 Organic Synthesis

CHM 5236 Spectroscopic Techniques & Structure Elucidation

CHM 5260 Physical Organic Chemistry

Physical CHM 5490 CHM 6430

Physical Spectroscopy Advanced

Thermodynamics
CHM 6461 Statistical Thermodynamics

CHM 6480 Quantum Mechanics
CHM 5423 Atmospheric Chemistry
Courses not listed above may be

counted in one of the five areas with prior departmental approval.

b) At least nine credits of

b) At least nine creats of additional graduate-level chemistry courses (excluding research and seminar) approved by the thesis committee in consultation with the Graduate Program Director with the following guidelines:

(1) The courses must be 5000 or 6000 level chemistry courses (CHM prefixes) or approved cognates (up to a maximum of six credits) and

(2) The following courses cannot count towards the eighteen credits (a) and (b): Graduate Analytical Methods (CHM 5150); Graduate Organic Chemistry (CHM 5225), and Graduate Physical Chemistry (CHM 5425).

c) Full time graduate students are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.

d) Full time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.

e) At least two credits of CHM 6936 (Chemistry Colloquium) is required. Each student must give a seminar at the colloquium for a letter grade in his/her second and fifth semester of graduate study.

f) At least eight credits of CHM 7910 (Dissertation Research) involving independent thesis research under the direction of a faculty member in the department.

g) CHM 7980 (Ph.D. Dissertation) is taken in the semester in which the Ph.D. dissertation is to be

defended. Prerequisite: Admission to candidacy.

- 2. Satisfactory completion of a series of 3-hour cumulative examinations. The student will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student's second semester. Five examinations will be given per year. The student must pass 4 out of 10 consecutively-offered exams for admission to candidacy.
- 3. Submission, presentation, and satisfactory defense of an orginal research proposal and completion of a 'PreOral' examination before the end of the fourth semester (excluding summers). The examination will be the dissertation conducted bv committee and is based on the student's research and includes doctoral questions from the student's major field as well as minor and cognate fields.

4. Submission and public presentation and defense of a satisfactory research dissertation as determined by the dissertation committee.

The requirements for an incoming student having either a Master's Degree or a Bachelor of Science degree are the Students having a M.S. in same. chemistry may transfer as many as 36 credits towards their Ph.D. degree, however only 6 of those credits will count to fulfill requirement (1) (formal course work requirement). Students may transfer more than 6 course work credits with special permission of the graduate committee. The number of additional course work credits required by the graduate committee will depend on, among other things, the student's performance in course work, the date course work was completed, and the area of Ph.D. concentration chosen by the student. The graduate student's Ph.D. thesis committee will consist of the research advisor, a member from outside the department, a randomlychosen committee member chosen by the graduate program director from the departmental research faculty, and at least two additional committee members who have some expertise in the graduate students research area. At least two members of the student's Ph.D. dissertation committee must be tenured in the Department of Chemistry. FIU courtesy professors may serve as research supervisors and co-major professors on a student's dissertation committee. It is expected

that a meaningful collaboration will be established between courtesy faculty serving as co-major professors and the major professor from within the The department. degree collaboration expectations and including co-authorship OΠ publications resulting from such collaborations must be agreed upon in the semester in which a graduate student chooses an advisor(s).

Financial Support

Full-time graduate students who are in good academic standing are eligible for financial support. Teaching and research assistantships are available on a competitive basis. Students may also apply for a 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 Director

Course Descriptions

Definition of Prefixes

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

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

Advanced Mass CHM 5138 Spectrometry (3). Intensive examination of the processes and techniques involved in creating, controlling and measuring ionic species by mass spectrometry. Theory of mass spectrometry, methods of ionization, instrumental designs, quantitative mass spectrometry, meta-stable ions, and mass spectrometry. Prerequisites: CHM 4130, CHM 4130L or Permission of Instructor.

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

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

CHM 5165 Chemometrics and Sampling (3). Methods of evaluating analytical chemistry data. Planning sampling design for water, air and solids. Sample preparation and extraction techniques. Prerequisite: CHM 4130.

CHM 5181 Special Topics in Analytical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Core course Prerequisite: CHM 4130 or permission of the instructor.

CHM 5225 Graduate Огдапіс Chemistry (3). Advanced topics in organic chemistry. Structure of organic molecules, reaction mechanisms, organic synthesis, and natural product chemistry. Prerequisite: Graduate standing or permission of the instructor. (F)

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

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization. stereochemistry and conformational analysis. Prereguisite: CHM 4220 or permission of the instructor.

CHM 5260 Physical Organic Chemistry (3). A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisite: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5280 Natural Products Chemistry and Biosynthesis (3). Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5302 Organic Chemistry of Nucleic Acids (3). Organic chemistry of ribose sugars, nucleoside heterocyclic bases, mechanism-based inhibitors of enzymes involve in nucleic acid metabolism, and chemical synthesis of DNA. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5306 Special Topics in Biological Chemistry (3). Investigation of one or more areas of biologically related chemistry. Prerequisites: CHM 4305 or permission of the instructor.

CHM 5325 Physical Chemistry of Proteins (3). Protein structures. dynamics and functions. Use of spectroscopic methods. Thermodynamics of protein folding and ligand binding. Enzyme Kinetics. Prerequisites: Biological Chemistry and Physical Chemistry or permission of instructor.

CHM 5351 Computer Modeling of Biological Molecules (3). Introduces use of computers in studying biological macromolecules. Simulations, visualization methods, software, databases. Prerequisite: CHM 3411, Biochemistry recommended.

CHM 5380 Special Topics in Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5423 Atmospheric Chemistry (3). Chemical processes in atmospheres. Photochemistry, chemical kinetics, tropospheric and stratospheric chemical reactions, anthropogenic effects on the earth's atmosphere and chemistry of planetary atmospheres. Prerequisite: CHM 3412, CHM 3411, or permission of the instructor.

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

CHM 5426 Graduate Physical Gas laws; Chemistry II (4). thermodynamics and equilibrium. electrochemistry, and chemical Prerequisite: Graduate kinetics. standing or permission of instructor.

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

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

CHM 5490L Physical Spectroscopy Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 2211, 2211L. Corequisite: PHY 4604 or CHM 5490.

CHM 5503 Physical Chemistry of Nucleic Acids (3). Physical chemistry of nucleic acids including spectroscopic determination of structures of DNAs, RNAs, and DNA-protein complexes and thermodynamic and kinetic studies of nucleic acid-ligand complexes and nucleic acid structures. Prerequisite: CHM 4305 or permission of the instructor.

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

CHM 5517 Solid State (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisite: CHM 5490 or PHY 4604.

CHM 5540 Group Theory In Chemistry (3). The fundamental Theory is developed with emphasis given to Representations. Specific applications covered, with emphasis on molecular orbital theory and spectroscopy. Prerequisite: Undergraduate Physical Chemistry.

CHM 5581 Special Topics in Physical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 3411 or permission of the instructor.

CHM 5650 Physical laorganic Chemistry (3). Introduction to use of

physical methods to determine the structure of inorganic compounds. Prerequisite: CHM 4610 or permission of the instructor.

CHM 5681 Special Topics in Inorganic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or permission of the instructor.

CHM 5765 Aquatic Chemistry (3). Redox chemistry, chemistry of sediments, organic biogeochemistry, chemodynamics, and fates or organic pollutants in aqueous environments. Prerequisites: CHM 2211, CHM 4130, or permission of the instructor.

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

CHM 5932 Special Topics (3). A course covering selected special topics in chemistry.

CHM 5936 Special Topics in Environmental Chemistry (3). An intensive examination of one or more areas selected by the instructor and students. Prerequisite: Permission of the instructor.

CHM 5XXX Asymmetric Synthesis (3). Recent advances in asymmetric synthesis for the selective design and construction of tetrahedral stereocenters. Focus on principles of configuration in transition state assemblies. Prerequisite: CHM 4220.

CHM 5XXX Organometallic Chemistry (3). Fundamentals and applications of organometallic chemistry: Structures and bonding, ligans types, organometallic reactions, physical methods of characterization. Prerequisites: CHM 4610, CHM 3411.

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

CHM 6166 Hyphenated Analytical Techniques (3). Covers hyphenated analytical techniques required for the analysis of trace elements and organic compounds in environmental and biomedical sciences. Prerequisite: CHM 4130 or equivalent.

CHM 6281 Environmental Organic Chemistry (3). Characteristics, origin, fate and transformation of organic compounds in air, water, sediments and biota. Prerequisites: CHM 2211, CHM 3411, or permission of the instructor.

CHM 6340 Organic Geochemistry (3). Organic geochemistry of recent and ancient environments. Characteristics, origin, and transformation of organic matter in the geosphere, including formation of crude oil. Prerequisites: CHM 2211, CHM 3411, CHM 4130, GLY 1010, or permission of the instructor.

CHM 6382 Advanced Biological Chemistry (3). In depth exploration of one or more biological chemistry areas, for example, use of multinuclear NMR in examining nuclear acids and proteins; biosynthesis of toxins, roles of porphyrins. Topics covered vary with instructor. Prerequisites: Biological Chemistry and Physical Chemistry 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 the instructor.

CHM 6449 Photochemistry (3).
Fundamentals of photochemistry.
Excited states, energy, and electron transfer processes, photo-oxidation, reactive species, and environmental photochemistry. Prerequisites: CHM 4220 or permission of the instructor.

CHM 6461 Statistical Thermo dynamics (3). Principles of statistical thermodynamics. Ensembles, classical and quantum statistics, ideal and non-ideal gases, equilibrium, crystals, liquids, and polymers. Prerequisite: CHM 3411 or permission of the instructor.

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

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

CHM 3411 or permission of the instructor.

CHM 6621 Inorganic Reaction Mechanisms (3). Review of kinetics and determination of mechanism. Study of mechanism of reactions of coordination complexes including, electron transfer reactions, ligand substitution reactions, coordinated ligand reactions of importance in homogeneous catalysis. Prerequisite: Physical Chemistry I (Kinetics).

CHM 6624 Coordination Chemistry (3). Electronic structure of metals and transition metal complexes; redox reactions; introduction to organometallic and Bioinorganic Chemistry. Symmetry and group theory applied to Transition Metal Complexes. Physical methods in Inorganic Chemistry. Prerequisite: CHM 3410 Physical Chemistry (Kinetics), CHM 3411 Physical Chemistry II (Quantum Mechanics).

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

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

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

CHM 6936 Chemistry Colloquium (1). Analysis of current developments and topics presented by faculty members and registered students. Prerequisite: Admission to graduate program in chemistry.

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

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

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

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

CHM 7910 Dissertation Research (1-10). Research towards the completion of a doctoral dissertation, Repeatable, Prerequisite: Graduate Standing.

CHM 7980 Ph.D. Dissertation (1-12) Completion of doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy. May be repeated.

CHS 5502 Forensic Chemistry for Teachers (3). Incorporates concepts and techniques from the application of chemistry, molecular analytical biology, biochemistry, toxicology, and microscopy to forensic casework. Exposure to teaching resources in these areas and case study format of presentation. Open to education majors only. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, and CHM 2211L or permission of instructor.

CHS 5531 Forensic Analysis (3). Advanced topics on the role that physical evidence plays in their criminal justice system. Topics include crime scene methods, laboratory management and the legal framework as it relates towards physical evidence. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L, or permission of the instructor. (Does not count towards chemistry elective requirement).

CHS 5531L Forensic Analysis Lab (1). Laboratory to accompany Forensic Analysis CHS 5531. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or permission of the instructor.

CHS 5538C Chemistry and Analysis of Drugs (3). Introduction to the chemistry of drugs of abuse, including reactivity, synthesis and the principles of analysis from solid doses and from body fluids. Laboratory analysis through the determination of unknown samples. Prerequisites: Instrumental Analysis, Biological Chemistry I.

CHS 5539 Forensic Toxicology (3). Provides the basic concepts of forensic toxicology as it applies to drug and body fluid analysis. Prerequisites: CHM 2211+L, CHM 3120+L, CHM 4305+L (BCH 3033+L) or permission of instructor.

CHS 5542 Forensic Chemistry (3). Advanced Analytical methods in Forensic Chemistry for application to the analysis of controlled substances. materials (ie., paint, glass, and fibers), flammable and explosives residues with an emphasis on new methods and method development.

CHS 5545 Chemistry and Analysis of Explosives (3). Chemistry reactivity, including thermochemistry, of modern industrial and military explosives with an emphasis on the analysis of explosives residues from post-blast debris and from samples of environmental interest. Prerequisite: Instrumental Analysis.

CHS 6946 Graduate Forensic Internship (1-6). Internship in an operational forensic laboratory, contributing in a specific manner on an assigned research project. Six hours a week minimum residence time per credit in the lab under the supervision of a host lab scientist and a faculty member is required. A final written report and presentation required. Prerequisites: Core courses in Forensic M.S. Program.

CHS 6XXX Independent Study in Forensic Science (1-6). Independent study and problems in an area of forensic science under faculty supervision. Prerequisite: Permission of instructor.

School of Computer Science

Yi Deng, Associate Professor and Director

Bill Kraynek, Associate Professor and Associate Director

Walid Akache, Instructor David Barton, Professor Toby S. Berk, Professor Shu-Ching Chen, Assistant Professor

Timothy Downey, Instructor Raimund Ege, Associate Professor and Graduate Program Director

Mbola Fanomezantsoa, Instructor Xudong He, Associate Professor Kip Irvine, Instructor

Masoud Milani, Associate Professor

and Director of the Information Technology Program Giri Narasimhan, Associate Professor

Jainendra K. Navlakha, Professor Ana Pasztor, Professor

Alexander Pelin, Associate Professor Norman Pestaina, Instructor Nagarajan Prabakar, Associate

Professor

Naphtali Rishe, Professor Greg Shaw, Instructor Geoffrey Smith, Associate Professor

Joslyn Smith, Instructor Wei Sun, Associate Professor

Mark A. Weiss, Professor

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

Master of Science in Computer Science

Admission

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

- 1. A Bachelor's Degree in Computer Science or equivalent degree in a related field from an accredited university or college as judged by the School's Graduate Committee.
- 2. 'B' average or better in all course work attempted while registered as an upper-division student Bachelor's degree.

- 3. Acceptable courses in Calculus and Statistics.
- 4. GRE (general test), scores of at least 1650 combined on the verbal, quantitative, and analytical portions. The TOEFL scores must be at least 550. Both GRE and TOEFL must have been taken within the past five years.
- 5. Three letters of recommendation from persons in a position to judge the applicant's potential success in graduate study.
- 6. Approval of the Graduate Committee.

Required Courses

The following 4 courses are required and must be completed with a grade of "B" or higher:

Software Engineering 3 CEN 5011 COP 6611 Advanced Operating Systems 3 COT 5420 Theory of Computation I COT 6405 Analysis of Algorithms 3

In addition, the student must take four graduate courses (12 credit hours) in the School of Computer Science. The program requires a "B" average or higher and a grade of "C" or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

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

Thesis Option

CIS 6970 Thesis

After completion of the other required courses, the student must conduct a research thesis. The topic must first be approved by the faculty member who will supervise the research and then by the Thesis Committee. The thesis will be accepted only after being read and approved by a Thesis Committee. An oral defense is required before the Thesis Committee.

Non-Thesis Option

Additional Course Work

The student is required to take two more graduate courses (6 credit hours) in the School of Computer Science.

Doctor of Philosophy in Computer Science

The requirements for admission to the doctoral program in Computer Science

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

- 2. Present a minimum of a 'B' average on all upper division work and acceptable courses in Calculus and Statistics.
- 3. GRE scores of at least 1650 combined on the verbal, quantitative and analytical portions. The TOEFL must be at least 550. The GRE and TOEFL must have been taken within the past five years.

4. Three letters of recommendation from persons in a position to judge the applicant's potential for advanced graduate study in computer science.

5. Approval of the School of Computer Science Graduate Committee.

A maximum of 36 computer science related graduate semester hours earned elsewhere as a graduate degree seeking student may be transferred to FIU.

Required Courses

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

CEN 5011 Software Engineering 3 Distributed Processing 3 CEN 6501 COP 5621 Compiler 3 Construction Advanced Topics in COP 6545 Database Management 3 Advanced Operating COP 6611 3 Systems COT 5420 Theory of Computation I 3 COT 6405 Analysis of

Computation II In addition, all students:

COT 6421

1. Must successfully pass a Qualifying Examination based on the student's course work.

Algorithms

Theory of

3

3

2. Must take at least 18 hours of graduate elective courses approved by the Graduate Committee.

3. Must write a dissertation on their research and successfully defend it orally.

4. Must take, in total, 90 credits beyond the B.S. This includes at least 24 dissertation credits at FIU.

5. Must spend at least one academic year in full-time residence. Normally, this will be after passing the Qualifying Examination.

For additional information and for specific rules and regulations relating to the graduate program, please refer to the web site. (http://www.cs.fiu.edu/grad) or write

Graduate Program Director

School of Computer Science Florida International University University Park Miami, Florida 33199

Course Descriptions

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:

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

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

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

CEN 5011 Software Engineering (3). This course deals with the design of large scale computer programs. Included are topics dealing with planning design, implementation, validation, metrics, and the management of such software projects. Prerequisite: CEN 4010. (F, S)

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

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

CEN 6502 Advanced Topics in Concurrent and Distributed Systems (3). Study of the major aspects of concurrent and distributed systems. Topics include foundations of concurrent computation, languages and tools for concurrent systems, distributed real-time systems, distributed multimedia systems, and concurrent object-oriented systems. (S, even years)

CGS 6834 Programming for the Web (3). Installation and maintenance of Techniques for building servers. secure multimedia interactive web pages. A hands-on project to develop an educational interactive multimedia web site is required. Not acceptable for Computer Science majors.

CIS 5900 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations. Prerequisite: Permission of Department.

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

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

CIS 6970 Thesis (I-10). Prerequisite: 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. Dissertation (I-10). Prerequisite: Permission of Major Professor and Doctoral Candidacy.

COP 5621 Compiler Construction (3). Basic techniques of compilation; scanning; grammars and LL and LR parsing, code generation; symbol table management; optimization. Prerequisites: MAD 3512 and CEN 4010. (F)

COP 5949 Cooperative Education in Computer Science (1-3). One semester of full-time work, or equivalent, in an

outside organization, limited to students admitted to the CO-OP program. A written report and supervision evaluation is required of each student. Prerequisite: Graduate Standing.

COP 6007 Computer Programming Concepts (3). For non-computer science graduate students. Concepts of object oriented programming, introduction to an object oriented internet programming language; programming; applications of programto learning technologies. Prerequisite: Permission of instructor.

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. (F,S)

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: COT 5420. (S, even years)

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

COT 5420 Theory of Computation I (3). Abstract models of computation; including finite automata, regular expressions, context-free grammars, pushdown automata, Turing machines. Decidability and undecidability of computational problems. Prerequisite: MAD 3512. (F, S)

COT 6405 Analysis of Algorithms (3). Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530. (F,

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. (S)

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

COT 6931 Topics in Cognitive Science (3). A "top-down" view of Computer Science, in particular artificial intelligence, by studying the computational aspects of human cognition. Prerequisities: COT 5420, COT 6421 or Permission of the instructor. (S, odd years)

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

Creative Writing

Donald Watson, Professor and Chairperson

Les Standiford, Professor and Director, Creative Writing Lynne Barrett, Professor John Dufresne, Professor

Denise Duhamel, Assistant Professor James W. Hall, Professor Campbell McGrath, Professor Dan Wakefield, Writer in Residence

Master of Fine Arts in Creative Writing

The Master of Fine Arts in Creative Writing is the terminal degree for the practicing writer, designed to qualify the recipient to teach creative writing on the collegiate and university level. The program is housed at the Biscayne Bay Campus. Writers enjoy the opportunity for editorial experience with Gulf Stream magazine, the annual FIU literary Awards competition, the FIU Writers Workshop at Seaside, the Miami Book Fair, and the Writers on the Bay Series, which has included residencies by such writers as Gay Talese, Robert Pinsky, Carolyn Forche, Louis Simpson, John Wideman, Elmore Leonard, James Crumley, Luisa Valenzuela, Tony Hillerman, and Henry Taylor. Such major writers as Maxine Kumin, James Jones, Pete Hamill and George Garrett have served on the regular faculty.

Admission Requirements

Applicants must have a baccalaureate degree, a 3.0 GPA or a 1000 combined score on the GRE, and a minimum of nine semester hours of undergraduate work in creative writing. However, admission is based primarily on the strength of the applicant's submitted writing sample. Deadline is January 15.

Degree Requirements

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

Literature Writing Workshop (both poetry and fiction required) Form and Theory 3 6 Thesis

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

Candidates must pass final defense/examination.

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

Course Descriptions

Definition of Prefixes

CRW-Creative Writing; ENG-English.

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

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

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

CRW 5934 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

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

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

CRW 6806 Teaching Creative Writing (3). The course will prepare graduate students (and teachers from secondary schools and community colleges) to teach introductory classes and workshops in Creative Writing. Students will observe and participate in the department's CRW 2001 courses. Prerequisites: CRW 3111, 3311, or graduate standing, or permission of instructor.

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

CRW 6972 Creative Thesis Continuance (1). Further guidance and direction for creative writing MFA candidates who have completed the two semester intensive sequence in CRW 6971. May be repeated.

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

Earth Sciences

Rosemary Hickey-Vargas, Professor and Chairperson William Anderson, Assistant Professor Bradford Clement, Professor Laurel Collins, Associate Professor

Bradford Clement, Professor Laurel Collins, Associate Professor Grenville Draper, Professor Michael Gross, Associate Professor Stephen Haggerty, Visiting Professor Jose Longoria, Professor Andrew Macfarlane, Associate

Professor Florentin Maurrasse, Professor René Price, Assistant Professor Edward Robinson, Research Associate

Surendra Saxena, Professor Gautam Sen, Professor Neptune Srimal, Visiting Assistant Professor

Dean Whitman, Associate Professor

The department offers the Master of Science Degree and Doctor of Philosophy Degree in Geology with opportunities for concentrated studies in structural geology/tectonics, igneous netrology/geochemistry/economic

petrology/geochemistry/economic geology, hydrogeology and environmental geology, stratigraphy/sedimentology, paleobiology, paleoecology and geophysics/paleomagnetics. In addition, students may select a concentration in the regional geology of Southern Florida, the Caribbean, and Latin America, including problems related to the above-mentioned fields. Overall, the graduate program emphasizes a multidisciplinary approach to solving geologic and environmental problems, and stresses the importance of field observation complemented by laboratory analysis.

The department is well-equipped with advanced and basic geological instrumentation. Major analytical facilities are an electron microprobe and scanning electron microscope housed in the Florida for Analytical Electron Center Microscopy (FCAEM), a thermal ionization mass spectrometer (VG-354), inductively coupled plasma emission spectro-analyzer, and the paleomagnetism laboratory cryogenic magnetometer. In addition the department owns a complete array of instruments for field geophysics and for field hydrologic studies, and two vehicles for transportation to local field sites. The department has facilities for micropaleontological studies, research in high pressure experimental petrology and experimental structural geology, a class 100 clean laboratory for processing isotopic samples, and a microscopy lab with heating/freezing stage for fluid inclusion studies. Excellent facilities for chemical analysis such as the stable isotope mass spectrometry lab, are available through formal connections with the Southeast Environmental Research Center.

Application Procedures

Admission decisions to the Program will be made by the Department's Graduate Admission Committee.

To be considered for admission applicants must submit the following documents prior to the admission deadlines.

- 1. FIU Graduate Application Form.
- 2. Certified transcripts of all college level work. When applicable, a certified English translation must accompany the original.
- Graduate Record Examination scores taken within the previous two years, sent from the Education Testing Service.
- 4. Scores of English proficiency, when applicable, sent from the Education Testing Service.
- 5. Curriculum vitae or resume with pertinent information regarding applicant's previous experience and achievements.
- 6. A statement of intent, including a brief discussion (not to exceed 2000 words) of educational goals and career projections. The applicant may also include a copy of previous written scientific work.
- Three letters of recommendation from former professors or academic advisors.

The Graduate Application Form, official transcripts, official GRE and TOEFL scores should be sent directly to the Office of Admissions, Florida International University, Miami, FL 33199, with the application fee. A copy of the application form, together with the curriculum vitae or resume, statement of intent and letters of recommendation should be sent to the Graduate Coordinator, Department of Earth Sciences, Florida International University, Miami, FL 33199.

Admission

To be admitted to the Graduate Program in Geology, a student must meet the following minimum requirements:

l. Hold a Bachelor's or Master's degree from an accredited college or

university in a relevant discipline of science, engineering or mathematics.

- 2. Have a grade point average (GPA) of 3.0 or higher (or equivalent) during the last two years of undergraduate program, and 3.0 or higher during the Master's degree program.
- 3. Have a minimum combined score on the verbal and quantitative sections of the Graduate Record Examination (GRE) of 1000 for the M.S. program or 1120 for the PhD program.
- Provide at least three letters of recommendation from persons qualified to evaluate the applicant's potential for graduate work.
- 5. Students whose native language is not English must demonstrate an adequate level of proficiency in English as a foreign language. A score above 550 (213 computerized) on the TOEFL (Test of English as a Foreign Language) of the Educational Testing Service is required.
- Meet the University's general requirements for admission to graduate programs.

Financial Aid

The Earth Sciences Department offers a number of graduate teaching and research assistantships which are awarded each semester on a competitive basis. The assistantships provide a stipend and waiver of tuition, and are usually not awarded to students pursuing the Non-Thesis Track M.S. degree. Applicants interested in an assistantship should indicate this on the FIU Graduate Application form. In order to be considered for an assistantship the application should be submitted by February 15 for the Fall semester admission and by September 1 for Spring semester admission. Applicants seeking research assistantships should contact individual faculty members in their area of research interest

Master of Science in Geology

The Master of Science degree is conferred upon successful completion of the requirements (listed below) of either the Thesis Track or Non-Thesis Track option of the degree program.

Thesis Track: Course Requirements: 36 credits, including:

GLY 5931/GLY 6931, Graduate Seminars

Electives

Graduate Seminars
Courses in field of specialization
GLY 6971, Thesis

18 6 10

2

Courses in the field of specialization and electives are chosen by the student in close consultation with a faculty advisor. These courses are selected to fit the student's particular professional goals and to ensure sufficient depth and breadth of geological knowledge.

Thesis Track: Graduation Requirements

- 1. A minimum GPA of 3.0 in all coursework counted toward the 36 credits required for the Master's degree.
- 2. Satisfactory completion and defense of a thesis proposal and an original research thesis.

Non-Thesis Track: Course Requirements:

36 credits, including:

Courses in field of specialization 18 18

Electives may include at most 3 credits of Supervised Research (GLY 6910) leading to a research paper.

Non-Thesis Track: Graduation Requirements:

A minimum GPA of 3.0 in all course work counted toward the 36 credits required for the Master's degree.

Doctor of Philosophy in Geology

The Doctor of Philosophy in Geology is conferred based on satisfactory completion of required course work, a demonstrated mastery of a broad field of knowledge, and the ability to conduct original and independent research. A minimum of 90 credit hours beyond the Bachelor's degree is required for the Ph.D. A minimum of 24 credit hours are devoted to research toward the Ph.D. Dissertation. A maximum of 30 credit hours may be transferred from other graduate programs with the approval of the Departmental Graduate Committee.

Course Requirements

GLY 5931/GLY 6931. Graduate Seminars Formal graduate level courses (nonresearch courses chosen in consultation with the major advisor) GLY 7980, Ph.D. Dissertation The remaining 34 credits may be either formal graduate level courses or independent study and special projects, selected in consultation with the major advisor.

Graduation Requirements

- 1. A minimum GPA of 3.0 in all course work required for the Ph.D. degree.
- 2. Satisfactory performance on qualifying examinations on general geologic knowledge and the field of subspecialization. Failure to pass this examination will terminate the student's enrollment in the program.
- 3. Completion and successful defense of a dissertation. Members of the dissertation committee will be jointly determined by the student's advisor and the Graduate Admission Committee.

Fields of Concentration

Geophysics/Paleomagnetism

Geophysical investigative techniques using gravity, magnetism, seismic reflection and refraction, earthquake seismology, and thermal properties. Land-based geophysical studies of the Caribbean and South American seismicity and crustal structure.

Hydrogeology/Environmental Geology

Field and modeling approaches to groundwater flow and solute fluxes in subsurface and near subsurface environments. Interaction of surface water and groundwater, solute transport, chemical and isotopic tracing techniques, watershed hydrology in south Florida, other U.S. locations, and Central America.

Igneous Petrology/Geochemistry/ **Economic Geology**

Research problems in petrology/geochemistry of igneous and metamorphic rocks with reference to their origin, and relationships in time and space. Origin of hydrothermal and other economic deposits. Field occurrence, geochemistry and petrogenesis of crystalline rocks, especially those of the Caribbean region and South America. Generation of associated (often, economically significant) hydrothermal deposits. Application of trace element and isotope geochemistry to the study of these petrogenetic associations.

Paleobiology/Paleoecology

Research applied to taxonomy, phylogeny, evolutionary processes, paleoecology, taphonomy, and biostratigraphy as applied to select fossil groups. Zonal distribution, facies analysis, and paleoecology of different groups of fossils. Specialization may be in macrofossils or microfossils, applied to several aspects of the paleobiology of particular fossil groups, including biodiversity, paleocology, response to global climatic changes, oceanographic or environmental and time relationships of selected organisms.

Regional Geology

Multidisciplinary geologic research applied to a specific geographic area.

Stratigraphy/Sedimentology

Sedimentary petrology, sedimentary environments, paleo-oceanography, sequence stratigraphy, cyclic stratigraphy, microfacies analysis, and basin analysis. Field and laboratory techniques applied to solution of problems in these topics, especially as applied to sedimentary rock sequences of south Florida, the Caribbean, and Meso-America. Evolution of the sedimentary basins of these regions and their relationships to global and regional tectonics.

Structural Geology - Tectonics

Field oriented research on methods of structural analysis. Analysis of geologic deformations based upon the principles of mechanics and utilizing research data from laboratory and field investigations of folding, fabrics, fracture, and faulting. Structural geology of the Caribbean and South America.

Course Descriptions

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

Definition of Prefixes EVS-Environmental Science: GEO-

Geography/Systematic; GLY-Geology; MET-Meteorology: OCE-Oceanography; OCG-Oceanography-Geological: OCP-Oceanography/Physical.

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

ESC 5162 Workshop: Microfossil Paleoenvironments (3). foraminifera and diatons are sampled, prepared and identified from marine to freshwater facies. Taxon distributions used to interpret paleoenvironments. Prerequisite: Permission of Instructor.

GLY 5021 Earth Sciences for Teachers (3), Study of geological materials and processes, as covered in Physical Geology, but at a higher level and with additional assignments. Prerequisite: Permission of the instructor. Corequisite: GLY 5021L. (F,S,SS)

- GLY 5021L Earth Sciences for Teachers Laboratory (1). Study of the properties of minerals and rocks; interpretation of topographic and geologic maps; study of the geology of Florida, including field trips. Prerequisite: Permission of the instructor. Corequisite: GLY 5021. (F,S,SS)
- GLY 5106 Paleoecology and Paleoenvironments (3). Paleoecology of fossils, paleobiodiversity, sedimentary facies, and environments, skeletal mineralogy, paleoecological gradients, chronologic scales and paleobiogeography and global patterns. Prerequisite: Permission of the instructor.
- GLY 5158 Florida Geology (3). Detailed lithostratigraphic and biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisite: GLY 3511 and GLY 3511L. (S in alternate years)
- GLY 5245 Water-Rock Interaction (3). Survey of geochemical processes at the water-rock interface. Topics include absorption of inorganic and organic ions, colloid stability in groundwater, mineral dissolution and precipitation. Prerequisites: CHM 1046, MAC 3312, GLY 4311 or Permission of the instructor.
- GLY 5246 Geochemistry (3). GLY 5246L Geochemistry Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry. (S in alternate years)
- GLY 5266 Stable Isotope Biogeochemistry (3). Application and theory of stable isotope approaches to biogeochemistry. Topics: Introduction to IRMS machines, C/N/O/H/S (biogeochem. processes), sampling/lab. prep., and recent advances. Prerequisites: One year of chemistry or consent of instructor.
- GLY 5283C Application of ICPES in Geochemistry (3). Determination of elemental abundances in rocks, soils, natural water using inductively coupled plasma emission spectroscopy (ICPES). Instrumental principles, sample

- selection and preparation methods and application of results to research. Prerequisites: CHM 1045, CHM 1046 or permission of the instructor. (S or SS)
- GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling. Prerequisite: Graduate stand-ing or Permission of the instructor. Corequisite: GLY 5286L. (F)
- GLY 5286L Research Instrumentation and Techniques in Geology Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: GLY 5286. (F)
- GLY 5287C Scanning Electron
 Microscopy with EDS Analysis (3).
 Imaging and microanalysis of materials
 using SEM including EDS.
 Prerequisite: Permission of Instructor.
- GLY 5288C Electron Microprobe Microanalysis with EDS Analysis (3). Imaging and analysiss or geological and other materials using electron microprobe with EDS analysis. Prerequisite: Permission of Instructor.
- 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 5246 or Permission
 of the instructor. (F)
- GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of the instructor. (S)
- GLY 5335 Metamorphic Geology (3). Metamorphic mineralogy; characteristics of low, medium and high pressure metamorphic rocks; pressure-temperature determinations; metamorphic textures; modeling and determination of P-T-t paths. (F)
- GLY 5335L Metamorphic Geology Lab (1). Petrographic examination of metamorphic rocks. (F)
- GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetical aspects, geochemistry, paleontology,

- mineralogy, and microfacies. Emphasizes microscopic study. Prerequisite: GLY 4551. Corequisite: GLY 5346L. (F in alternate years)
- GLY 5346L Sedimentary Petrology Lah (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4551 and GLY 4551L. Corequisite: GLY 5346. (F in alternate years)
- GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems of natural rock deformation. Prerequisites: GLY 4400, MAC 3413, or Permission of the instructor. Corequisite: GLY 5408L. (S)
- GLY 5408L Advanced Structural Geology Lab (1). Problem solving in theory of rock deformation. Experimental procedures in rock mechanics. Corequisite: GLY 5408. (S)
- GLY 5415 Caribhean Geology and Tectonics (3). Integration of geologic and geophysical data to understand the evolution and present tectonic configuration of the Caribbean area. Prerequisite: Permission of the instructor.
- GLY 5425 Tectonics (3). Properties of the lithosphere; plate kinematics and continental drift; characteristics of plate boundaries; mountain belts; formation of sedimentary basins. Prerequisites: GLY 1010, 1100, 4400, 4310, 3200 or Permission of the instructor. (S)
- GLY 5455 Physical Volcanology (3). Description of volcanoes and their products, geophysical and tectonic constraints on volcanic processes, and modeling and forecasting of volcanic eruptions. Prerequisite: GLY 4450, GLY 4310 or Permission of the instructor. (F in alternate years)
- 5457 Geophysical Data GLY Analysis (3). Computer analysis and modeling of geophysical data and digital images. Statistical description of data, linear inverse theory, digital and image processing. signal Computer exercises with MATLAB. Prerequisites: GLY 4450, MAP 2302, MAS 3105, PHY 2048, PHY 2049 or consent of instructor. Corequisite: GLY 5457L. (F)
- GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and three-

dimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 3048, PHY 3049, MAC 3311, MAC 3312, MAP 3302. Corequisite: GLY 5457. (F)

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

GLY 5497 Topics in Structural Geology and Tectonics (3). Selected advanced topics in structural geology and rock deformation. Latest advances in crustal tectonics. Prerequisite: GLY 5408. (S)

GLY 5599 Seminar in Stratigraphy (3). Discussion of research projects and/or current literature in stratigraphic correlation as derived from sedimentologic principles and biozonation. Prerequisite: GLY 5346. (F,S)

GLY 5608 Advanced Paleontology I
(3). Discussion of current literature and research projects on evolution, systematics functional morphology, with reports by members of the seminar. Prerequisites: GLY 4650, GLY 5609, or Permission of the instructor. (F)

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Microscopic study of biostratigraphic type sections from the Caribbean area. Emphasis on planktonic foraminifera and radiolaria, paleoecologic and paleoclimatic interpretations. Prerequisite: GLY 4650 or Permission of the instructor. (F)

GLY 5710 Watershed Hydrology (3). Hydrologic processes on watershed, water budgets, effects on water quality, field investigative methods using tracers and hydrometric measurements, hydrologic and hydrochemical models.

GLY 5754 Applied Remote Sensing in the Earth Sciences (3). Application of remote sensing and image analysis in the earth sciences; qualitative and quantitative satellite image and air photo interpretation. Emphasis is on use of computer processing packages. Prerequisites: GLY 1010 or consent of instructor.

GLY 5758 GIS and Spatial analysis for Earth Scientists (3). Application of GIS technology to spatial problems in the Earth Sciences. Topics include: spatial statistics, sampling theory, surface estimation, map algebra, and suitability modeling.

GLY 5785 Caribbean Shallow-Marine Environments (3). Field study of multiple tropical environments in the Caribbean area. Dynamic processes and coastal evolution in response to natural and human-induced changes.

GLY 5786 Advanced Field Excursion (3). A study of the geology of a selected region of the world followed by 10-12 day field trip in order to study the field relationships of the geologic features. Special emphasis is given to stratigraphic, structural and tectonic relationships of lithic package. Prerequisite: Permission of the instructor. (SS)

GLY 5808 Mining Geology (3). Application of theoretical models of ore formation to exploration and the use of geochemical and geophysical techniques in the search for ore deposits. Prerequisites: GLY 4311 and CHM 1046. (F)

GLY 5816 Economic Geology (3). Economically important metal deposits of sedimentary, igneous and hydrothermal origins and their geologic settings and characteristics. Prerequisites: GLY 1010, GLY 4300, CHM 1045, CHM 1046. (S)

GLY 5826 Hydrogeologic Modeling (3). Techniques used in modeling groundwater flow and solute transport in geologic systems. Case studies of significant aquifers. Prerequisites: GLY 5827, MAP 2302, or Permission of the instructor. (S,SS)

GLY 5827 Hydrogeology (3). Physics of flow in geological media. Saturated and unsaturated flow, groundwater and the hydrologic cycle, estimating hydraulic parameters of aquifers, introduction to chemical transport. Prerequisite: GLY 1010, MAC 2312, and PHY 2053, or Permission of the instructor. (F)

GLY 5827L Hydrogeology Lab (1). Laboratory, field, and computer exercises to complement GLY 5827. (F)

GLY 5828 Chemical Hydrogeology and Solute Transport (3). Quantitative analysis of hydrologic, geologic, and chemical factors controlling water quality and the transport and fate of organic and inorganic solutes in the subsurface. Prerequisites: GLY 5827.

GLY 5889 Geology for Environmental Scientists and Engineers (3). Characterization of rocks and rock masses; geological maps; seismic hazards; weathering of rocks; hydrologic cycle; slope stability; coastal processes; geophysical techniques. Course includes field trips in the South Florida region. Prerequisites: CHM 1045, GLY 1010 or Permission of the instructor.(S)

GLY 5931 Graduate Seminar (1). Presentation or critical examination of current research problems in geology. A selection of topics is considered each term. Topics may also include individual research in the student's field of investigation. Prerequisite: Graduate standing or Permission of the instructor. (F,S,SS)

GLY 5XXX Radiogenic Isotope
Methods (3). Theory and practice of
radiogenic isotope ration measuring
techniques. Use of class-100 clean
room facilities, and introduction to
thermal ionization mass spectrometry.
Prerequisite: General Chemistry.

GLY 6159 Stratigraphy of the Circum Caribbean Region (4). Detailed lithostratigraphic and biostratigraphic analyses of Caribbean islands, Central America, northern South America and Caribbean basin. Prerequisite: GLY 5621 or Permission of the instructor. (SS)

GLY 6247 Trace Element and Isotope Geochemistry (3). Principles of trace element and isotope fractionation and radioactive decay, and their application to the interpretation of igneous rocks and the chemical evolution of the earth. Prerequisite: GLY 5246 or Permission of the instructor. Corequisite: GLY 6247L. (S)

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

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

GLY 6337 Metamorphic Phase Equilibria (3). Theory and methods of calculation of metamorphic phase equilibria and P-T paths using appropriate analysis of composition space, activity models, geothermometry, geobarometry. Origin and interpretation of zoning in metamorphic minerals. Prerequisites: GLY 5335 or Permission of the instructor. (F)

GLY 6345 Sedimentary Petrography (3). Comparative study and fundamental observations of sedimentary rocks in hand specimens and under the petrographic microscope; their classification, theoretical and practical implications. Prerequisites: GLY 4551 or Permission of the instructor. (F)

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

GLY 6353 Microfacies Analysis (3) GLY 6353L Microfacies Analysis Laboratory (1). Identification and interpretation of the fossil and mineralogical constituents of sedimentary rocks in thin section. Emphasis is placed on the paleoecological significance of fossil remains in carbonates. Pereequisites: GLY 4551 or Permission of the instructor. (S)

GLY 6392 Topics in Igneous
Petrology and Geochemistry (3).
Research seminar in contemporary
petrology and geochemistry. Student
presentation on thesis research.
Petroequisite: GLY 5322 or Permission
of the instructor. (F,S)

GLY 6427 Quantitative Geotectonics (3). Application of continuum mechanics and heat transfer to problems in geology. Observational constraints on earth properties. Em-phasis is on problems relating to the earth's lithosphere. Prerequisites: GLY 4450, GLY 4400, GLY 5425 and MAP 3302 or Permission of the instructor. (F in alternate years)

GLY 6444 Quantitative Analysis of Joints and Faults (3). Application of fracture mechanics to geologic problems, including the analysis of local and regional stress fields, bedrock fracture systems, estimation of fracture related strain, and the influence of mechanical properties on rock failure. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or Permission of the instructor. (F in alternate years)

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

GLY 6448 Stress in the Earth's Crust (3). The distribution and magnitude of stress in the earth's crust, laboratory derived values for earth stress, in situ stress measurements, regional stress patterns and sources of stress in the lithosphere. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or Permission of the instructor. (S)

GLY 6468 Paleomagnetism (3). Physics of rock and mineral magnetism, geomagnetism and paleomagnetism; field and laboratory methods, geomagnetise field behavior, magnetostratigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3202 or Permission of the instructor. Corequisite: GLY 6488L. (F)

GLY 6468L Paleomagnetism Laboratory (1). Physics of rock and minerals magnetism, geomagnetism and paleomagnatism; field and laboratory methods, geomagnetic field behavior, magneostratigraphy, apparent polar wander. Prerequisite: GLY 4400, GLY 3202 or Permission of the instructor. Corequisite: GLY 6468. (F)

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

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

GLY 6517 Basin Analysis (3). Analysis of sedimentary basins based on their origin, paleogeographic evolution and tectonic setting. Emphasis is placed on the tectonic evolution and economic potential of sedimentary basins. (S in alternate years)

GLY 6517L Basin Analysis Lab (1). Analysis of different types of sedimentary basins using a case history approach. Corequisite: GLY 6517. (S in alternate years)

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and survey of relevant literature with reports by members of the seminar. Prerequisite: GLY 5346. (S in alternate years)

GLY 6626 Stratigraphic Micropaleontology: Foraminifera (3). Nomenclature, taxonomy, and biostratigraphy of Cretaceous and Cenozoic planktonic foraminifera. Studies of stratigraphically important taxa from Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or Permission of the instructor. (F in alternate years)

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

GLY 6628 Stratigraphic Micropaleontology: Calcareous Nannofossils (3). Nomenclature, taxnomy, and biostratigraphy of Triassic
to Recent nannofossils. Intensive
training of identification of marker taxa
using land and DSDP/ODP sites.
Prerequisites: GLY 5621 or Permission
of the instructor. (S in alternate years)

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

GLY 6809 Hydrothermal Geochemistry (3). The mineralogy, thermodynamics, chemistry and isotope chemistry of hydrothermal and geothermal systems, with an emphasis on the transport of solutes in hydrothermal solutions and ore-forming processes. Prerequisites: GLY 5246, CHM 3400 or Permission of the instructor. (S in alternate years)

GLY 6862 Numerical Methods in the Earth Sciences (3). Numerical techniques used by geoscientists, with emphasis on finite-difference and finite-element techniques to solve equations governing fluid flow and mass transport in geological systems. Prerequisites: MAP 3302, GLY 5827 and knowledge of one programming language or Permission of the instructor.

GLY 6896 Advanced Topics in Hydrology (1-3). Research-oriented seminar course involving analysis of several contemporary topics chosen from the current literature in hydrology. Specific topics vary. May be repeated.

Prerequisites: GLY 5827 and one other graduate level hydrology/hydrogeology course, or Permission of the instructor. (S in alternate years)

GLY 6910 Supervised Research (1-12). Research apprenticeship under the direction of a professor or a thesis advisor. Prerequisites: Full graduate admission and permission of the instructor.

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

GLY 6941 Supervised Teaching in the Geosciences (1). Teaching a geological discipline under the supervision of departmental faculty. Prerequisite: Graduate standing.

GLY 6945 Proposal Writing (1). A graduate course aimed at introducing students to grant proposal writing.

GLY 6949 Professional Internship in Earth Science (1-3). Semester or summer term of supervised work at an approved government or industry laboratory or field station. Prerequisite: Graduate standing.

GLY 6966 Master's Comprehensive Examination (0). Oral and written examinations on knowledge in general geology and the student's field of concentration. Schedule to be selected in consultation with the Graduate Committee. Prerequisite: Advanced graduate standing, (F,S,SS)

GLY 6971 Master's Thesis (1-12). Field and/or laboratory research project toward thesis. Selected in consultation with major professor. Prerequisite: Permission of major professor. (F.S.SS)

GLY 6XXX Topics in Economic Geology (3). Current research directions in Economic Geology and Geochemistry, including ore formation processes, exploration and remediation.

GLY 7980 Ph.D. Dissertation (1-12). Field and/or laboratory research directed towards completion of the doctoral dissertation. Selected in consultation with major professor. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

OCG 6105 Advanced Marine Geology (3). OCG 6105L Advanced Marine Geology Lab (1). Application of geophysical and geological data to the interpretation of the earth's crust under the occans, including the data provided by the Deep-Sea Drilling Project, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisite: GLY 4730 or Permission of the instructor. (Fin alternate years)

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 the instructor. (F in alternate years)

3

Economics

John H. Boyd III, Associate Professor and Chairperson

Nejat M. Anbarci, Associate
Professor

Harvey Averch, Professor, Courtesy Appointment, College of Public and Urban Affairs

Mahadev Bhat, Assistant Professor (joint appointment with Environmental Studies) Prasad V. Bidarkota, Assistant

Professor Manuel J. Carvajal, Professor

Richard A. Chisik, Assistant
Professor

Irma de Alonso, Professor Alan Gummerson, Lecturer Jonathan Hill, Assistant Professor Antonio Jorge, Professor of Political Economy, (joint appointment with

International Relations)
Ali Cem Karayalcin, Associate
Professor

Panagis Liossatos, Professor J. Kenneth Lipner, Associate Professor

Jorge Salazar-Carrillo, Professor and Director, Center for Economic Research and Education

Constantinos Syropoulos, Associate Professor

Dimitrios Thomakos, Assistant Professor

Tao Wang, Assistant Professor Mira Wilkins, Professor Maria Willumsen, Associate Professor

The Department of Economics has a group of faculty who are interested in a variety of applied and theoretical topics. The graduate programs in Economics place strong emphasis on exploiting synergies between fields such as industrial international economics. organization, political economy, and development economics (including Latin American and Caribbean studies as well as regional development problems). Issues are analyzed using modern economic tools from fields such as econometrics, game theory, and economic dynamics. While these are the department's areas of greatest emphasis, graduate course work in other fields can also be undertaken. The department's graduate programs are further enhanced by the presence of complementary graduate programs in the College of Arts and Sciences, College of Business Administration, the School of Policy and Management, and the Latin American and Caribbean Center.

The Master's Program provides additional training in economics beyond the undergraduate degree. It provides a degree of expertise that would not be obtained in an undergraduate education. This additional expertise enhances your prospects for a successful career in the private sector, and in governmental or international agencies.

The objective of the Doctoral Program is to offer advanced training in economic analysis. It provides an excellent background for a professional career at academic institutions, in the private sector, or in governmental and international agencies.

Master of Arts in Economics

To be admitted into the Master's degree program in Economics, a student must meet the University's graduate admission requirements and:

1. Have a Bachelor's Degree from an accredited insitution.

2. Have a 'B' average (3.0) or higher during the last two years of undergraduate studies, or a minimum combined score (verbal + quantitative) of 1,000 or higher on the Graduate Record Examination (GRE), which every candidate must take. Foreign students whose native language is not English must take the TOEFL and obtain a minimum score of 550.

3. Receive approval of the departmental graduate committee.

4. Have taken as prerequisites 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.

Master's Tracks

The Department of Economics offers two tracks: A general economics track, and a track specializing in applied economics. Although the general requirements are the same for both tracks, students opting to follow the applied economics track must write a Master's Thesis, take a fourth core course, and include four of the applied track courses listed below among their electives. The applied track courses are also open to students following the general economics track.

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 Courses

All Master's students must take the following three courses

ECO 6112 Fundamentals of Graduate Microeconomics

ECO 6204 Fundamentals of Graduate Macroeconomics 3

ECO 7424 Econometric Methods 1 3

Research Requirements: (3-6 credits)
Students following the general
economics track must either write a
thesis for 6 credits (ECO 6971), or take
an advanced course in applied economics
(7000-level or approved by the Graduate
Director) which involves writing a
research paper (3 credits). Students
taking the applied economics track must
write a thesis for 6 credits (ECO 6971).

Electives: (15-18 credits)

A student must take at least four electives in economics. The additional one or two courses required to complete the Master's program may be taken in Mathematics, International Studies, the College of Business Administration, the College of Urban and Public Affairs or in the other college or schools of the University. The graduate director must approve courses taken outside the department. ECP 6705 and ECP 6715 do not count as electives.

Additional Applied Track Courses

An M.A. student wishing to follow the applied economics track will be required to take, in addition to the three core courses above, a fourth core course:

ECO 6416 Applied Quantitative Methods in Economics 3

Applied track students must choose their remaining four electives from the following courses:

Tollowing col	11303.	
ECP 6305	Advanced Environment	al
	Economics	3
ECS 5027	Economics of Emerging	3
	Nations	3
ECP 5704	International Economic	
	Problems and Policy	3
ECO 6225	Economics of Asset	
	Markets	3
ECO 7236	Money, Banking and	
	Monetary Policy	3

Graduation Requirements

To receive the Master's degree in Economics, the student must complete 30 hours of course work with a 'B' (3.0)

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

Doctor of Philosophy in Economics

The admission requirements to the Ph.D. program in Economics are:

Have a Bachelor's Degree from an accredited institution.

2. A minimum GPA of 3.0 for the last two years of undergraduate education or a minimum combined score (verbal + quantitative) of 1000 on the Graduate Record Examination (GRE), which every candidate must take. Foreign students whose native language is not English must take the TOEFL and obtain a minimum score of 550.

3. Three letters of recommendation, using the form provided by the Department, from people in a position to judge the applicant's suitability for graduate studies in economics.

4. Receive approval of the depart-

mental graduate committee.

5. Completion of the following courses at the undergraduate level: statistics, two semesters of calculus, and a semester of linear algebra. Unless exempted, the student must take these courses as required, obtaining no graduate credit for them in the program.

The GRE and GPA stated above are minimum requirements. All applications are reviewed by the Graduate Studies Committee, which makes the final admission decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum standards. Meeting the minimum requirements does not guarantee admission.

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the required course work and fulfill dissertation requirements.

Course work Requirements

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

This required minimum of 16 courses consists of ten courses in the Core, four courses in two 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 (normally either the Graduate Director or the student's dissertation advisor).

No credit toward a graduate degree is given for any course in which a grade of 'C' or less is obtained. A graduate student who receives a grade lower than 'B-' in a course must retake that course; if a retake also results in a grade lower than 'B-', the student will not be permitted to continue in the Ph.D. Program. A graduate student who receives a grade lower than 'B-' in more than two courses will not be allowed to stay in the Economics Ph.D. Program.

Students are required to maintain a minimum GPA of 3.0 (of 4) in their coursework.

Core Courses

ECO 6112	Fundamentals of Graduate Micro-
	economics 3
ECO 7115	Microeconomic
	Theory I 3
ECO 7116	Microeconomic
	Theory II 3
ECO 6204	Fundamentals of
	Graduate Macro-
	economics 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 11 3
ECO 7305	History of Economic
	Thought 3

Core Study

During the first three semesters, students are required to take courses which include the first nine core courses listed above. Following the third semester, students are required to pass a comprehensive qualifying examination on core theory—the first six core courses listed above. A student who fails twice will not be allowed to remain in the program. A student must receive at least a 'B' (3.0) average in the first seven courses in order to participate in the comprehensive core theory qualifying examination.

Field Study

During the fourth and fifth semesters, students will complete course work in two Fields of Specialization. Students must pass the field examination in one of the major fields at the end of the fifth semester. In the other field, students must write a field paper. The field paper must be completed, presented in a

workshop, and accepted by the student's field paper committee by the end of the third year. Students who fail twice any of their field requirements will not be allowed to continue in that field. History of Economic Thought should also be completed by the end of the third year.

Dissertation Work

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

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

Students will normally be required to be enrolled as full-time students at the University for at least a year during the dissertation period. Except under abnormal circumstances, the maximum number of years during which a student may do dissertation work is five years.

Graduation Requirements

To graduate, students must complete all course requirements; fulfill workshop presentation requirements, pass the comprehensive and field examinations, and complete the oral defense and acceptance of the Ph.D. dissertation.

Course Descriptions

Definition of Prefixes

ECO-Economics; ECP-Economic Problems and Policy; ECS-Economic Systems and Development. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ECO 5709 The World Economy (3). Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program. (S)

ECO 5735 Multinational Corporatlons (3). Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of the instructor for undergraduates. (S)

ECO 5906 Advanced Individual Study (1-6). Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

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

ECO 6076 Teaching Economics (1). This course, required of all graduate assistants, is designed to introduce students to the pedagogical and practical aspects of teaching economics. It is coordinated with the Academy for the Art of Teaching.

ECO 6112 Fundamentals of Graduate Microeconomics (3). Consumer choice and theory of firm using calculus and diagrams with standard applications; Introduction to choice under uncertainty; Introduction Game Theory (nash Equilibrium); Partial Equilibrium; Market Structures: Perfect Competition, Monopoly and Oligopoly; Market failures. Prerequisites: One semester of Calculus and Statistics.

ECO 6204 Fundamentals of Graduate Macroeconomics (3). Consumption, investment and growth; equity premium puzzle; taxation and social security; monetary policy rules, currency and inflation; the IS-LM model; real business cycles and models with nominal regidities. Prerequisites: Calculus and Statistics.

ECO 6225 Economics of Asset Markets (3). Economic analysis of the asset markets; risk, return and intertemporal choice; mean variance analysis; asset pricing models and properties of asset returns; market efficiency and market anomalies. Prerequisites: Calculus or permission of the instructor.

ECO 6416 Applied Quantitative Methods in Economics (3). Types of conomic data; the WWW as a tool for data collection; database construction and maintenance; use of statistical software for graphical and descriptive methods; large sample inference for one population mean vector; introduction to conomic time series and regression models. Prerequisites: One semester of

Calculus and Statistics or permission of the instructor.

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

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

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

ECO 6971 Thesis (6). Writing and completion of thesis by candidate for a Master of Arts. Prerequisities: 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 1 (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 1; Calculus 11 recommended. (F)

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

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

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

ECO 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 1 (3). Analysis of macroeconomic models of income determination and the price level, microeconomic foundations of macro-behavior, macroeconometric models, and basic open economy macroeconomics. Prerequisites: ECO 3203, ECO 4410, or equivalents; Calculus 1; Calculus 11 recommended.

ECO 7207 Macroeconomic Theory 11 (3). Alternative approaches to macroeconomic theory. Business cycle theories and theories of growth and income distribution. Prerequisites: ECO 7115, ECO 7206, ECO 7405.

ECO 7216 Monetary Theory and Policy (3). Relationship of money supply and interest rate to conomic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

ECO 7236 Money, Banking, and Monetary Policy (3). Monetary theory and its application. Consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries. Survey of current policy views.

ECO 7305 History of Economic Thought (3). Exploration of the evolution of economic thought and analysis in the changing socio/historical, institutional and political setting in which it takes place. Prerequisite: Permission of the instructor. (S)

ECO 7405 Mathematical Methods in Economic Analysis (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Calculus 1, ECO 3101 and ECO 3203, or equivalents. (F)

ECO 7424 Econometric Methods I (3).
Practical and theoretical foundations of empirical economics. Knowledge in formulation, estimation, and evaluation of econometric models. Prerequisites: ECO 4410 or equivalent; ECO 7423, Calculus I; Calculus II recommended. (S)

- ECO 7425 Econometric Methods II

 (3). A continuation of ECO 7424.
 Advanced single equation estimation, estimation of distributed lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 7424 and MAS 3103 or equivalent. (F)
- ECO 7429 Topics in Econometrics (3). Selected topics in econometrics. Intended to acquaint students with current research in the field. Material covered will vary from year to year with instructor. Prerequisites: ECO 7424 and ECO 7425.
- ECO 7505 Public Finance (3). Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.
- ECO 7617 Seminar in Economic History (3). Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of the instructor for undergraduates.
- ECO 7705 International Trade (3).
 Positive and normative aspects of comparative advantage, commercial policy, trade and income distribution.
 Prerequisites: Advanced Microeconomic Theory; Calculus. (F)
- ECO 7716 International Money (3). Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus. (S)
- ECO 7925 Advanced Workshop (3). Enables students to attend advanced workshop presentations and to present the results of their own research. Prerequisite: Completion of field examination requirements. (F.S)
- ECO 7980 Ph.D. Dissertation (1-12). To be taken every semester for research on, and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Permission of Major Professor and Doctoral Candidacy.
- ECP 5707 International Economic Problems & Policy (3). International trade and comparative advantage; commercial policy; foreign exchange markets; balance of payments; issues in

- trade & development. Prerequisite: ECO 2013 or ECO 3011, and ECO 2023 or ECO 3021.
- ECP 6305 Advanced Environmental Economics (3). Economics of environmental pollution; theories of exhaustible and renewable resource extraction; issues in environmental valuation and policies. Prerequisite: ECP 3101 and ECP 3302 or ECP 4314 or Permission of the instructor.
- ECP 6434 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F,S,S)
- ECP 6605 Urban and Regional Analysis (3). Application of economic analysis to urban growth and the urban-regional environment. Consideration of public services, transportation, ghetto problems, and urban organization. Analysis of environmental protection problems and policies. Recommended preparation: ECO 3101, ECO 3203 and ECP 3303.
- ECP 6705 Managerial Economics (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011. (F.S.SS)
- 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, ECS 4013 or equivalent; and ECO 6536. (F)
- ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory. Spatial price theory and spatial competition. Prerequisites: ECO 3101 or equivalent; Calculus I; Calculus II and ECO 7115 recommended. (S)
- ECP 7706 Managerial Economics (3).
 Analysis of the economic decisions of firm managers, emphasizing the practical application of concepts to economic problem solving by managers, public administrators and other decision makers. Prerequisites: Ph.D. or advanced Masters.
- ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of the instructor for undergraduates.
- ECS 5025 Economic Planning (3).
 Analysis of planning methods in capitalist and socialist economics.
 Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower. Prerequisite: Graduate standing or permission of the instructor.
- ECS 5027 Economic Development of Emerging Nations (3). Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid, and economic integration. (F)
- ECS 5406 Latin American Economies (3). Economic theory and its applications to current economic issues of Latin America. Examines aggregate demand and supply, fiscal and monetary policies, international trade trends, and economic development. Taught in Spanish. May not be takenfor credit towards a degree in Economics.
- ECS 6436 The Economics of Caribbean Migration (3). The course examines the economic causes and consequences of Caribbean immigration to the United States. Special emphasis on

the effects of Caribbean migration on the United States economy.

ECS 7015 Development Economics: Theory (3). Analytical approaches to economic development. Analysis of macro models, specific resources and sectors, and trade and income distributional problems in relation to developing countries. Prerequisites: ECO 7115 and ECO 7116 or equivalents. (F)

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

ECS 7405 Economics of Latin America
(3). Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of the instructor for undergraduates.

ECS 7435 Economics of the Caribbean (3). Macroeconomic assessment; income distribution, employment and migration; industrial and agricultural development; international trade, multinational and integration attempts. Prerequisite: Permission of the instructor.

ECS 7445 Economics of Central America (3). Recent economic events in the region dealing with institutional background and structure of current economic activities. Special emphasis on problems of growth, social transformation and economic integration. Prerequisite: Permission of the instructor. (F)

English

Carmela Pinto McIntire, Associate
Professor and Chairperson

St. George Tucker Arnold, Associate
Professor

Joan L. Baker, Associate Professor and Director of the Master of Arts in English Program

Lynne Barrett, Professor Lynn M. Berk, Professor

Greg Bowe, Assistant Professor and Director of Undergraduate Writing Gisela Casines, Associate Professor

and Associate Dean

Maneck Daruwala, Associate
Professor

Carole Boyce Davies, Professor
John Dufresne, Professor

Denise Duhamel, Assistant Professor Peggy Endel, Associate Professor Mary Free. Associate Professor and

Associate Chairperson

James Hall, Professor Kimberly Harrison, Assistant

Professor
Bruce Harvey, Associate Professor
Marilyn Hoder-Salmon, Associate

Marilyn Hoder-Salmon, Associa Professor Tometro Hopkins, Associate

Professor Kenneth Johnson, Associate Professor and Assistant Vice President of

Academic Affairs
Kathleen McCormack, Associate

Campbell McGrath, Associate Professor

Kathryn McKinley, Associate Professor

Phil Marcus, Professor

Asher Z. Milbauer, Associate Professor

Meri-Jane Rochelson, Associate Professor

Richard Schwartz Professor Kate Capshaw-Smith, Assistant Professor

Lester Standiford, Professor and Director of Creative Writing Program

Richard Sugg, Professor James Sutton, Associate Professor

Ellen Thompson, Assistant Professor Dan Wakefield, Writer in Residence and Lecturer

Donald Watson, Professor

Butler H. Waugh, Professor Donna Weir, Assistant Professor Feryal Yavas, Lecturer and Director

of the Linguistics Program

Mehmet Yavas, Professor

The English Department offers three graduate degree programs: Creative Writing, Linguistics and Literature. The descriptions of the Creative Writing and the Linguistics programs can be found under their respective headings in this catalog.

Master of Arts in English

To be admitted into the Master's program in English, a student must meet the University's graduate admission requirements and have:

1. A bachelor's degree in English or a related field;

2. A minimum 3.0 undergraduate grade point average;

A combination of 1000 (verbal and quantitative) on the GRE;

4. Two letters of recommendation from undergraduate or graduate professors;

A personal essay;

6. Those who might be chosen for teaching assistantships will be interviewed by at least one member of the committee.

Degree Requirements

The Master's degree program consists of 30 semester hours of course work at a graduate level (course numbers 5000 or above) and a thesis (6 credits). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee.

Required Courses

ENG 5048 Literary Theory 3 LIT 5405 Literature, Language and Society 3

Electives: A maximum of 24 semester hours (5000 or 6000) level may be taken at either campus.

Thesis: LIT 6970 Master's Thesis 6 The student must complete a research thesis. The topic must be approved by the faculty member who will supervise the research and then by the Graduate Committee. The thesis will be accepted only after being read and approved by a Reading Committee. An oral defense is required before the Reading Committee.

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

Course Descriptions

Definition of Prefixes

AML - American Literature; CRW-Creative Writing; ENG-English-General; ENL-English Literature; LIN -Linguistics; L1T-Literature.

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

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

CRW 6806 Teaching Creative Writing (3). The course will prepare graduate students (and teachers from secondary schools and community colleges) to teach introductory classes and workshops in Creatice Writing. Students will observe and participate in the depaartment's CRW 2001 courses. Prerequisites: CRW 3111, 3311, or graduate standing, or permission of instructor.

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

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

ENG 5026 Advanced Textual Reading (3). The study of selected texts for interpretation from different critical and theoretical perspectives. May be repeated. Prerequisite: Admission to the graduate program in English or by Permission of the instructor.

ENG 5048 Literary Theory (3). An introduction to issues in the nature of literature, the philosophy of criticism, and methods of interpretation. The theoretical foundations for literary study. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

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

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

ENG 5950 Special Project in English (1-3). Pursuit of projects involving relationship of profession to university and/or community and/or research issues in pedagogy, literature, or other areas. Prerequisites: Consent of Graduate Director or Department Chair. Corequisite: Consent of project supervisor.

ENG 5971 Thesis and Dissertation Workshop (3). A workshop providing practice in the type of writing, research, and analytical skills required for successful graduate study. Prerequisite: Graduate standing.

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

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

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

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

ENL 5220 Major British Literary Flgures (3). Each section will consider the lifework of an author such as

Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

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

LIN 5019 Metaphor, Language, and Literature (3). Examines nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisites: LIN 3013 or LIN 5018.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIT 5358 Black Literature and Literary/Cultural Theory (3). Examines 20C black literary critical theories and literary texts from African, Caribbean, African-American, Black British and Afro-Brazilian communities. Prerequisites: Graduate standing.

LIT 5359 African Diaspora Women Writers (3). Study of black women writers from throughout the Diaspora from the early 19th century to present. Prerequisites: Graduate standing.

LIT 5363 Literary Movements (3). Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, the Harlem Renaissance, and others. May be repeated.

LIT 5405 Literature, Society, and Language (3). This seminar explores language's relationship to social formation, specifically as it applies to the relationship between literature and social groups and institutions. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5426 Authors in their Times (3). A focus on one or more designated authors and the biographical, political and historical context in which they

wrote, using current critical and historical approaches. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5486 Literature: Continuity and Change (3). Explores the development of a particular literary genre, declogical concept, or cultural tradition over a broad period of time. May be repeated. Prerequisites: Admission to the graduate program in English or by Permission of the instructor.

LIT 5487 Texts and Culture (3). The study of the relationship between specified texts and an historically, socially, or conceptually defined culture, such as Vietnam War Narratives, Jewish Literature, or Postmodernism. May be repeated. Prerequisites: Admission to the graduate program in English or by Permission of the instructor.

LIT 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6935 Master's Colloquium (3). Individual sections study a specific literary topic, selected and presented jointly by several faculty members. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 6970 Master's Thesis (1-6). A thesis is required of all graduate students of English, to be written in the final semester done under the supervision of a faculty member. Prerequisites: Admission to the graduate program in English and by permission of the supervising faculty.

Environmental Studies

Joel Heinen, Associate Professor and Chairperson

Bradley Bennett, Associate Professor Mahadev Bhat, Associate Professor David Bray, Associate Professor Anne Hartley, Assistant Professor Krishnaswamy Jayachandran, Associate Professor

Stephen P. Leatherman, Professor (International Hurricane Center) Michael McClain, Assistant Professor Jack Meeder, Research Scientist

(Southeast Environmental Research Center)

John Parker, Professor Tom Pliske, Instructor

Gary Rand, Associate Professor Mike Ross, Research Scientist

(Southeast Environmental Research Center)

Keqi Zhang, Research Scientist (International Hurricane Center)

Affiliated Faculty
Jerry Brown, Sociology/Anthropology
Yong Cai, Chemistry
Janet Chernela.

Sociology/Anthropology
Jim Fourqurean, Biological Sciences
Piero R. Gardinali, Chemistry
Kevin Hill, Political Science
James Huchingson, Religious Studies
Rudolf Jaffe, Chemistry
Jeff Joens, Chemistry
Suzanne Koptur, Biological Sciences
Rod Neumann, International

Steve Oberbauer, Biological Sciences George O'Brien, Education Betsy Smith, Social Work

Relations

Berrin Tansel, Civil and Environmental Engineering Joel Trexler, Biological Sciences Bill Vickers, Sociology/Anthropology

Master of Science in Environmental Studies

The Environmental Studies Department offers the Master of Science (M.S.) in Environmental Studies degree to train students for work in the areas of environmental policy, natural resource science and management, sustainable development, particular focus on the South Florida region, the Caribbean Basin, and Latin America. An emphasis of the program is the cultural and political milieu in which environmental issues of the region are embedded. The program is interdisciplinary in nature, and students will be encouraged to take advantage of University-wide resources, programs, and courses in environmental issues, such as those in Public Administration, International Relations, Biology, Chemistry, Earth Sciences, Political Science, Economics, and Sociology/Anthropology.

The M.S. degree program offers two options: thesis track and non-thesis The thesis track involves track. rigorous, solutions-oriented scientific research into the functioning of environmental systems. This track is highly recommended for students who are coming directly from undergraduate programs and who are interested in doctoral research in the future. The non-thesis track is primarily designed for employed professionals who may want to enhance their careers and skills through additional academic training beyond their bachelor's degree and practical training through internships with agencies, corporations, non-profit organizations or academic institutions. It is not recommended for students who do not have job experience.

Admission Requirement

To be admitted into the master's program in Environmental Studies, a student must meet the University's graduate admission requirements and: l. Have a "B" average in upper level work, or a combined score of 1000 (quantitative and verbal) on the GRE, which every candidate must take, or graduate degree from an accredited institution. Foreign students whose native language is not English must take TOEFL and score a minimum of 550.

2. Have submitted three letters of recommendation, a one-page statement of research interests, a copy of all transcripts, and a copy of the university graduate application to the Graduate Program Director on or before March 1 for the Fall admissions and October 1 for the Spring admissions.

 Have received approval of the departmental graduate program committee.

Degree Requirements

The Master of Science in Environmental Studies requires 36 credits, including the specific requirements (listed below) of either thesis track or non-thesis track option of the degree program. A maximum of six credits of post-baccalaureate graduate course work may be transferred from other institutions,

subject to approval of the graduate committee. Particular courses will be determined by the student in consultation with the thesis advisory committee, faculty advisor, or the Graduate Program Director.

Thesis Track: Course Requirements

 EVR 5320
 Environmental Resource Management
 3

 EVR 5355
 Environmental Resource Policy
 3

 EVR 6950
 Graduate Seminar
 3

 EVR 6971
 Master's Thesis
 6

 Research Methods or Analysis Course
 3

 Electives
 1

The research methods course and

Total Credits

electives are selected in consultation with student's thesis advisor. Elective courses are chosen in one of the three graduate concentrations (see below) and fit the student's thesis Research. Additional thesis or research credit, above the 6-credit minimum, may also be applied as elective credit. A maximum of six credit hours may be taken at the 4000 level, and a minimum of six credit hours must be taken in Environmental Studies. Students must demonstrate a competency in Statistics (equivalent to two courses of undergraduate statistics, taken prior to the admission into the program, with a "B" or better grade in both courses, or two courses of graduate statistics with a "C" or better grade in both courses). Additional course work may be advisory recommended by the

Thesis Track: Graduation Requirements

graduation.

committee. A maximum of 5 credit

hours of independent study credit

(EVR 5907 Graduate Independent

Study) may be applied toward

A grade of 'B' or higher must be obtained in all core courses. A grade of 'C' or higher must be obtained in all courses, with a cumulative GPA of 3.0 or higher in the 36 credits. Students must pass a comprehensive oral and/or written qualifying examination. The format of the examination will be decided by the thesis advisor and the committee. A thesis must be completed and defended in consultation with the student's graduate thesis committee.

Non-Thesis Track: Course Requirements

EVR 5320 Environmental Resource Management

EVR 5355	Environmental Resou	ırce
	Policy	3
EVR 5907	Research and Indeper	ndent
	Study	3
EVR 6950	Graduate Seminar	3
Quantitative Methods Course 3		
Electives 21		
Total Credits 36		

The quantitative methods course and electives are selected in consultation with faculty advisor. Elective courses are chosen in one of the three graduate concentrations (see below), and to fit the student's particular professional interest and to ensure sufficient breadth and depth of environmental studies knowledge. Students carrying out research, internship or independent study for their non-thesis project should sign up for EVR 5907, but may not exceed six credits total. EVR 6970 and EVR 6971 will not count toward electives. A maximum of six credit hours may be taken at the 4000 level. A minimum of twelve elective credits must be taken in Environmental Studies. All courses except EVR 6950 must be taken for letter grades.

Non-Thesis Track: Graduation Requirements

A grade of "B" or higher must be obtained in all core courses. A grade of "C" or higher must be obtained in other courses, with a cumulative GPA of 3.0 of higher in the 36 credits. A project (EVR 5907) must be completed under faculty supervision, and the project report must be presented as a part of the Graduate Seminar class. This work may be based on a specific field research, internship of current occupation. A project is defined as a substantial analysis and proposal for change of real-world environmental problem.

Graduate Concentrations for the Master of Science in Environmental Studies

The Department of Environmental Studies currently offers graduate-level concentrations in three different areas. These are 1) energy management, and 2) biological management, and 3) pollution management. A list of electives for each of these concentrations can be obtained from the Department's Office.

Course Descriptions Definition of Prefixes

EVR-Environmental Studies. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

EVR 5061 South Florida Ecology: Field Studies (3). Introduction to ecology of South Florida. Series of field trips to unique ecosystems (Everglades, hardwood hammocks, coastal regions). No science background required. Intended for teachers. Not intended for Environmental Studies graduate students.

EVR 5065 Ecology of Costa Rican Rainforest (3). Intensive study of Central American tropical forest ecosystems conducted for two weeks in Costa Rica in sites ranging from lowland to high mountains. Primarily for teachers. Prerequisites: Graduate standing or Permission of the instructor. (SS)

EVR 5066 Ecology of the Amazon Flooded Forest (3). Study of the ecology of the flooded forest with emphasis on the relationships between plants and animals and the annual flooding cycle. The course includes a two-week field study at river camp in Peru. Prerequisites: Graduate standing or Permission of the instructor. (SS)

EVR 5067 Tropical Forest Conservation and Utilization (3). Distribution and classification of tropical forest ecosystems, their description and the ecological principles governing their function. Factors influencing tropical forest utilization and destruction, and strategies for sustainable use and conservation. Prerequisites: EVR 5355 or Permission of the instructor.

EVR 5236 Air Pollution Dynamics (3). A course designed to give an understanding of the fates of Scavenging processes in the atmosphere; radiation, residence times, chemical reactions, global transport process, point source dispersion and modeling calculations. Prerequisite: EVS 3360 or EVR 4231.

EVR 5300 Topics in Urban Ecology (3). Topics include urban and suburban ecosystems emphasizing energy relations, ecological functions of urban landscapes, urban wildlife, urban forestry and ecological issues relevant to human health and well-being. Pererequisites: PCB 3043 or Permission of the instructor.

EVR 5313 Renewable Energy Sources (3). An analysis of renewable energy sources and energy efficiency including wind, biomass, geothermal, hydroelectric, solid waste, solar heating, solar cooling, and solar electricity. Pererequisite: Permission of the instructor.

EVR 5315 Energy Resources and Systems Analysis (3). Detailed analysis of energy flows in natural and analysis. Energy use patterns. Conventional and alternate sources of energy.

EVR 5320 Environmental Resource Management (3). The scientific and philosophical basis for the management of renewable and non-renewable energy, mineral, air, water, and biotic resources. Prerequisite: Graduate standing or Permission of the instructor. (F)

EVR 5330 Tropical Ecosystems
Management (3). Analyzes the
dimensions of tropical ecosystems
management. Organizational and
institutional dynamics of the
management of tropical forests,
agroecosystems, and coastal areas are
covered. Prerequisites: Permission of
Instructor.

EVR 5350 International Organizations & Environmental Politics (3). The role of international organizations in environmental politics and the process of their formation and change in response to environmental problems. Prerequisite: Graduate standing or permission of the instructor.

EVR 5353 International Energy Policy (3). Focuses on the distribution of global energy resources and related issues. A comparison of the energy policies of various countries serves as the basis for exploring alternative energy policy approaches. Prerequisites: EVR 5355 or Permission of the instructor.

EVR 5355 Environmental Resource Policy (3). A survey of international and national environmental policy and the legal, economic, and administrative dimensions of international accords and selected U.S. law. Prerequisites: EVR 5320 or Permission of the instructor. (S)

EVR 5360 Protected Area Management (3). Interdisciplinary examination of ecological, administrative, and socio-economic aspects of managing protected natural areas. Case studies

from developed and developing nations.

EVR 5405 International Biological Conservation Accords (3). Survey of international biological conservation agreements. Topics include bilateral migratory wildlife agreements, the Berne Convention on Migratory Wildlife, CITES, Ramsar, the UNCED Biodiversity Treaty and the Statement of Principles on Forests. Prerequisites: EVR 5355 or Permission of the instructor.

EVR 5406 U.S. Endangered Species Management (3). History and implementation of the U.S. Endangered Species Act. Topics include legal and administrative aspects, reauthorization, procedures for recovery planning and conflict resolution, and biological measures of success. Prerequisites: EVR 5355 or Permission of the instructor.

EVR 5410 The Human Population and Earth's Ecosystems (3). Explores the impact of the human population of Earth's ecosystems. Reviews current population data at global, regional, and local scales. Includes study of specific South Florida carrying capacity issues.

EVR 5907 Research and Independent Study (VAR). The student works with a professor on a research project. Variable credit.

EVR 5935 Special Topics (VAR). A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 5936 Topics in Environmental Studies (3). An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 6322 Methods of Sustainable Resource Management (3) A study of methods and policies for achieving a sustainable environment. Covers project appraisal, resource modeling and national accounts in the context of resource sustainability. Prerequisite. Graduate standing or permission of the instructor.

EVR 6329 Watershed Analysis and Management (3). An examination of the watershed approach to managing water and land resources. Integrating fundamental physical, chemical, and biological processes with human

systems at the landscape scale using GIS.

EVR 6950 Graduate Seminar (1) A weekly seminar that features guest speakers, student presentations, and discussions among graduate students and faculty. Environmental Studies graduate students are required to register during three semesters of their program. Prerequisite: Permission of the instructor.

EVR 6970 Thesis Research (1-12)
Supervised research towards
completion of Master's Thesis. Repeatable. Prerequisite: Permission of
Major Professor.

EVR 6971 Master's Thesis (1-12) Completion of Master's Thesis. Repeatable. Prerequisite: Permission of Major Professor.

EVS 5145 Ecotoxicology (3). Fate of chemicals and their acute and chronic toxicological effects on aquatic and wildlife systems. Dose-response relationships, bioavailability, bioconcentration, microbial degradation, and biomonitoring. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

EVS 5194 Applied Soil Biology (3). Examines biology of soil organisms and biologically-mediated chemical transformations occurring in soil ecosystems. Prerequisite: BSC 1011

EVS 5637 Ecological Risk Assessment (3). Evaluation of risks of foreign chemicals to aquatic and terrestrial systems. Concepts and methodology used in the hazard and risk assessment of toxic effluents, chemical/oil spills, and contaminated sediments. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

114

Forensic Science

Jose R. Almirall, Assistant Professor and Graduate Program Director Kenneth Furton, Associate Professor and Director, IFRI

Administered by the International Forensic Research Institute (IFRI) the Master of Science in Forensic Science is an interdisciplinary program designed to prepare students for careers in local, state and national forensic science laboratories. The program may also be suitable preparation for doctoral instruction in several disciplines.

Admission Requirements

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

- Hold a Bachelor's degree in a relevant discipline from an accredited college or university.*
- Have a 3.0 GPA in upper-level course work and a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam.
- Two letters of recommendation of the student's academic potential.
- 4. Be accepted by a faculty sponsor.
- 5. Receive approval from the Graduate Committee.
- Foreign students whose native language is not English must take the TOEFL (Test of English as a Foreign Language) and obtain a score of 550 or higher.

*Minimum requirement is the equivalent of a bachelor's degree in biology, chemistry or related science approved by the graduate committee. It is recommended that students have the equivalent of a minor in chemistry before taking the required courses.

Degree Requirements

The Master of Science in Forensic Science consists of a minimum of 32 credits, including a thesis based upon the student's original research or completion of an independent study report option.*

A maximum of six credits of post-baccalaureate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee. The graduate committee will consist of the Graduate Program Director and a member from each of the following departments: Chemistry, Biology, Criminal Justice and Psychology. The thesis committee shall consist of the research advisor (normally the faculty sponsor), and at

least two additional committee members who have some expertise in the graduate student's research area.

Required Courses:

BSC 5406	Forensic Biology	3
CHS 5xxx	Forensic Chemistry	3
CHS 5531	Forensic Analysis	3
BSC 5931	Thesis Proposal	1
	or	
CHM 6935	Thesis Proposal	1
	or approved cognate ¹	

BSC 5975	Thesis Defense Seminar	1
СНМ 6971	or Thesis Defense Seminar	1
	or approved cognate ¹	

BSC 6971	Thesis	6
СНМ 6970	or Thesis	6
	or approved cognate ¹	

Electives²

15

¹Equivalent courses in the student's area(s) of thesis concentration may be substituted upon approval by the thesis committee in consultation with the Graduate Program Director (i.e.,CCJ, GLY, PHY, PSY). ²At least fifteen credits of additional graduate-level courses, workshops and laboratories (excluding research and seminar) from participating departments approved by the thesis committee in consultation with the Graduate Program Director. [Consult the Director for a selected list of Chemistry, Biology, Earth Sciences, Criminal Justice, and Legal Psychology courses].

*A report option is available for students with at least one year of forensic science lab work experience. Students approved for this option can replace "Thesis" with "Independent Study in Forensic Science (CHS6905)" and the two additional required courses "Analytical Toxicology (CHS5XXX)" and "Advnaced Quality Control (STA5664)".

Graduation Requirements

A grade of "C" or higher must be obtained in all courses with a cumulative average of 3.0/4.0 or higher, and presentation and submission of a satisfactory research thesis to the Thesis Committee.

History

Kenneth Lipartito, Professor and Chairperson

Nina Caputo, Assistant Professor Daniel A. Cohen, Associate Professor N. David Cook, Professor John C. Coombs, Assistant Professor Hugh Elton, Assistant Professor Rebecca Friedman, Assistant

Professor Mitchell Hart, Associate Professor Sherry Johnson, Associate Professor Alan Kahan, Associate Professor Howard Kaminsky, Professor

Emeritus Lara Kriegel, Assistant Professor Felice Lifshitz, Associate Professor Akin Ogundiran, Assistant Professor Joseph F. Patrouch, Associate

Professor and Director of Graduate Studies

Brian Peterson, Associate Professor Joyce S. Peterson, Associate Professor and Associate Dean

Darden Asbury Pyron, Professor Howard B. Rock, Professor James Sweet, Assistant Professor Mark D. Szuchman, Professor and Associate Dean

Clarence Taylor, Professor Victor M. Uribe, Associate Professor William O. Walker III, Professor Kirsten Wood, Assistant Professor

Master of Arts in History

The Department of History offers the M.A. degree, with concentration in one of four culture areas: United States. Africa, Europe, and Latin America. Students will choose a Thesis, Report, or Internship in Public History option. in consultation with the Department's Graduate Advisor. Students must make their selection either prior to registering for their first Research Seminar or before completing the first twelve (12) semester-hours toward the degree, whichever comes first. The degree requirements for the M.A. vary somewhat, according to the option taken.

Entrance Requirements

Requirements for admission into the M.A. degree program in History are the same regardless of the option selected. Applicants must also satisfy any additional requirements the University sets for admission to graduate work. Applications should include transcripts from any postsecondary institutions attended, 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 recommendation 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 recommendation no later than November 15.

1. An applicant who feels the earned GPA is not indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination which will be taken into consideration by the admissions committee in its evaluation of the application. 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 Program Director, together with the waiver form available from the Department of History.

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

Any applicant with fewer than twelve (12) semester-hours of undergraduate courses in History may be accepted provisionally and take a maximum of nine (9) semester-hour credits by registering for courses under the category of Special Student (consult the University Catalog and the Office of Graduate Admissions). After completing nine semester-hours of undergraduate course work in History (3000-4000 level) with no grade lower than a "B" (3.0), the student may apply for regular admission. The application will be reviewed by the Department's Graduate Program Director, consultation with the Department's faculty. The above admissions criteria are only minimum requirements. All applications are reviewed by the Graduate Studies Committee which makes the final admissions recommendation to the University Graduate School.

Degree Requirements

Thesis Option

- 1. A minimum of 30 semester-hours for the degree, including the maximum of six semester-hours of Thesis Research. All course work must be taken at FIII.
- A minimum of 24 semester-hours of course work.
- Two Research Seminars (6 semester hours).
- 4. Reading competence in a foreign language. Language competency is assessed by the faculty of the Department of History, as appropriate. Courses required to meet the language competency requirement do not count towards the degree. The Latin American concentration requires proficiency in Spanish or Portuguese; the modern European concentration requires proficiency in Spanish, French or German: the United States concentration requires proficiency in any of the above, and the medieval or ancient concentration in at least one of those languages in addition to Hebrew, Latin, Greek or another ancient language as deemed appropriate by the student's advisor.
- 5. All students are required to take HIS 6059 (Historical Methods). Students may not transfer credits from other programs to fulfill this require-
- The following limits are placed in accumulating credits toward the M.A. degree:
- a. No more than three semester-hours of HIS 5908 (Independent Study) are permitted.
- b. Students must receive the grade of "B" (3.0) or better in order for any course to count toward the degree.
- c. A maximum of six semester-hours of HIS 5930 (Special Topics).
- d. Students are prohibited from taking more than one Research Seminar per semester.
- e. Students are prohibited from taking graduate-level cross-listed courses that they have already taken at the undergraduate level.
- 7. Core Area. Students will select one core area for concentration in United States History, European History, African History or Latin American and Caribbean History, in consultation with the Graduate Advisor. Twelve semester-hours of course work will be taken within the core area.
- 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.
- II. 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 Offices of the Dean of the College of Arts and Sciences and the University Graduate School.

Report Option

- I. A minimum of 30 semester-hours of course work are needed for the M.A. degree. The report option does not set requirements of the Core/Breadth area distribution. Students will design their distribution needs in consultation with the Graduate Advisor and the relevant faculty. All courses must be taken in the Department of History at FIU.
- 2. A minimum of two Research Seminars (6 semester-hours) must be taken. Only Research Seminar papers (2) that secure relevant faculty approval may be submitted to the Graduate Advisor for process of final approval.
- 3. The following limits are placed on accumulating credits towards the Master's degree:
- a. Students must receive the grade of "B" (3.0) or better for the course to count toward the degree.
- b. HIS 5908 (Independent Study) is limited to three semester-hours.c. HIS 5930 (Special Topics) is
- limited to six semester-hours.
- d. HIS 6059 (Historical Methods) is required of all students.

Internship in Public History Option

 A minumum of 30 semester hours for the degree, including a

- maximum of 6 semester hours of Independent Study tied to an internship in the fields of Museum Studies or Public History. Six credit hours equal to a minimum of 520 hours of work that is to be documented by the project supervisor or musuem director. The internship must be approved by the Graduate Program Director and supervised by a regular member of the department's faculty.
- A minimum of 24 semester hours of course work, of which 6 credit hours must be taken from the following list of courses: 5067 (Public History), 5084 (Museum History), ARHxxxx (Introduction to Museum Studies).
- A minimum of two Research Seminars (6 semester hours).
- Reading competency in a language other than English. The appropriate language is to be determined in consultation with the Graduate Program Director. Language competency is assessed by the faculty of the Department of History or by a specialist designated by the Graduate Program Director.
- HIS 6059: Historical Methods
- . The following limits are placed on accumulating credits toward the Internship in Public History Option of the MA degree:
 - Students must receive the grade of 'B' or better.
 - Students may not take more than one Research Seminar per semester.
 - c) Students may not take graudate-level crosslisted courses which they have already taken as an undergraduate.

Students must submit a written report following departmental regulations of their internship activities to the Graduate Committee before the degree can be awarded.

Core Courses

The following courses count for all

options:	
AFH 5905	Readings in African
	History
AFH 5935	Topics in African
	History
AFH 6915	Research in African
	History
AMH 5905	Readings in American
	History

AMH 59		opics in American
AMH 69	915 R	esearch in American
EUH 59		eadings in European istory
EUH 59		opics in European istory
EUH 69		esearch in European
LAH 59		eadings in Latin merican History
LAH 59	35 T	opics in Latin merican History
LAH 69	15 R	esearch in Latin merican History
HIS 528		omparative History
HIS 593		pecial Topics
HIS 590		dependent Study
HIS 591	.0 A	dvanced Research

Consultation with the Graduate Advisor is required before registering for the following courses:
HIS 6959 Historical Methods
HIS 6970 Thesis Research

Doctor of Philosophy in History

The doctoral program in History offers students opportunities to concentrate on the areas of Latin America, Africa, the United States, or Europe. The program contains an underlying comparative framework based on the civilizations of the Atlantic, which allows students to explore the many dimensions of crosscultural exchanges. The curriculum thus emphasizes the comparative framework around the Atlantic experience, and reflects the vitality of a cross-disciplinary approach.

Admission to the Program

Every applicant must complete an application form, and submit college transcripts, GRE scores and the application fee to the Office of Graduate Admissions. A curriculum vitae, writing sample, statement of research interests, and at least two letters of recommendation together with the waiver form available from the Department of History should be submitted to the Graduate Program Director. For those transferring into the program who already hold the M.A., the thesis, when available, should be submitted as the sample. Admission requires a GRE score meeting University standards and a minimum undergraduate GPA of 3.0. Applicants with M.A. degree are required to have a graduate GPA of at least 3.25. For students whose native language is not English, the TOEFL exam is required, with a score of a least 575 in the paper-based text and 232 in the computer-based test.

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 recommendation regarding their application no later than March 15.

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

Degree Requirements

Number of Credits and Nature of Required Courses

A minimum of 60 semester-hours of credit are required beyond the Master of Arts degree of which 9 credits will be taken as a common core consisting of historical methods, an introductory reading seminar in Atlantic Civilization and a research seminar in Atlantic Civilization. A further 18 credits are required in the student's core culture area to be chosen from the United States, Latin America and the Caribbean, Africa, or Europe, An additional 12 credits are required in geographical/topical areas outside the culture area of concentration. These out-of-area distribution courses may be taken in either History or a cognate discipline. A maximum of 24 hours of dissertation credit is required. Students entering the Ph.D. program without a MA should follow the requirements of the MA Report Option in structuring their first 30 credits of graduate work. After completion of these 30 credit hours, students' progress and standing in the program will be reviewed by the Graduate Committee before they are allowed to take additional work.

Language Requirements

The language requirement may be fulfilled in one of two ways: 1) thorough knowledge of one foreign language and reading knowledge of another are required of all students; or 2) students may demonstrate knowledge of one language and competency in social science quantitative skills. Language requirements vary, according

to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, Spanish and Portuguese are expected. Language exams will be graded on a High Pass, Pass, and Fail basis; a High pass is required in the student's primary language. Students should check with the Department's Director of Graduate Studies to determine which languages are appropriate for their program of studies.

Composition of Course Work

A minimum of 60 semester-hours of work after completion of the Master's degree in History are required, of which a maximum of 24 hours are permitted for the doctoral dissertation. The courses form part of the student's development in the field, factual and interpretive, in preparation for the comprehensive written and oral examinations to qualify for doctoral candidacy. A minimum of 27 hours of residency (e.g., three semesters for fulltime students) is expected prior to filing for the qualifying examinations. The student may, in consultation with the faculty, decide that more work is necessary before the exams are attempted. The standard course load of nine hours per semester means that the qualifying examinations will usually be administered near the end of the second year of residency, or at the beginning of the third year.

Course Requirements beyond the Master's degree

Common Core	9
Culture Area Concentration	18
Out-of-Area Distribution	12
Dissertation	24
Total	63

Common Core Courses: (9)

Historical Methods *
Advanced Readings in Atlantic
Civilization
Research in Atlantic Civilization
*('Historical Methods' may not be
transferred from a Master of Arts

Program.)

Culture Area Concentration

Courses: (18 credits minimum from either AFH, AMH, EUH, LAH, or WOH core below).
Readings in African History
Readings in American History
Readings in European History
Readings in Latin American History

Advanced Readings in American History

Advanced Readings in European History

Advanced Readings in Latin American History Research in African History Research in American History

Research in African History Research in American History Research in European History Research in Latin American History

Out-of-Area Distribution Courses: (12 credits outside general field concentration or in other departments).

Dissertation Research: (18-24 credits) The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing. The program expects students to devote a minimum of 18 hours to activities related to the dissertation subsequent to candidacy, that is, after passing the Comprehensive Examinations.

Comprehensive Examinations and the Dissertation.

Following completion of all course work, satisfaction of language requirements, the constitution of a dissertation committee, and the approval of a dissertation proposal by that committee, students will be required to pass a written and an oral comprehensive examination, and to write a dissertation. Exams will be administered, as needed, no more than two times each year. Students should consult the Graduate Program Director for the date of the exams. The exams will cover knowledge in four fields: 1) general field; 2) period/geographical subfield; 3) a comparative field; 4) a methodological and/or interdisciplinary field.

Restrictions

1. The grade of "B" or better is required for graduate credit.

2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.

3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without

permission of the Director of Graduate Studies.

4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Director of Graduate Studies.

Course Descriptions

Definition of Prefixes

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

AFH 5905 Readings in African
History (3). An examination of
historiographical traditions within
African history. Topics will vary; with
a change in theme, the course may be
repeated. Prerequisite: Graduate
standing.

AFH 5935 Topics in African History
(3). An examination of specific themes in African history. Topics will vary. With a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 6915 Research in African History (3). Research in primary and secondary sources on African History. Subjects may vary. May be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5905 Readings in American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5935 Topics in American History (3). An examination of specific themes or topics in American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Grad-uate standing.

AMH 6906 Advanced Readings in American History (3). Detailed analysis of a selected topic in American History. May be repeated as topics vary. Prerequisite: Graduate standing.

AMH 6915 Research in American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in American History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 5905 Readings in European History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in European history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

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

EUH 6906 Advanced Readings in European History (3). Detailed analysis of a selected topic in European history. May be repeated as topics vary. Prerequisite: Graduate standing.

EUH 6915 Research in European History (3). Students conduct research in primary and secondary sources on aspects of important subjects in European History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

HIS 5067 Public History (3). The theory, methods and practice of history in non-academic settings, including museums, national parks, governmental agencies, corporations, and community organizations. Prerequisite: Graduate Standing.

HIS 5084 Museum History (3). Examines key texts in the history of museums in modern Europe and the United States. Among issues it addresses are nationalism, imperialism, memory, and identity politics. Prerequisites: Graduate Standing.

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

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

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

HIS 5930 Special Topics (3). An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

HIS 5940 Supervised Teaching (1-3). The students will work under the close supervision of a regular member of the faculty in a mentorial fashion. The supervision will cover various aspects of course design and delivery in history. Prerequisite: Graduate standing.

HIS 6059 Historical Methods (3). A seminar designed to introduce the beginning graduate student to the technical aspects of the study of history. Prerequisite: Graduate standing.

HIS 6159 Historiography (3). An introduction to the discipline of history, with primary and secondary readings allowing exploration of the evolution of historical schools of thought over several generations. Prerequisite: Graduate standing.

HIS 6906 Advanced Readings in Atlantic Civilization (3). A team-taught, comparative course dealing with the interactions between at least two of the geographical fields of concentration. May focus on one or more topics. Required of all Ph.D. students during their first term of study in the program. Prerequisite: Graduate standing.

HIS 6918 Research In Atlantic Clvilization (3). A research seminar on cross-cultural topics, involving the comparative method. Required of all Ph.D. students in the program, during second term of residence. Topics will vary. Prerequisite: Graduate standing.

HIS 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. May be repeated. Prerequisite: Permission of Department.

HIS 7980 Ph.D. Dissertation (1-12). Completion of Doctoral Dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

LAH 5905 Readings in Latin
American History (3). Students read
books from different historiographical
traditions and with conflicting interpretations about an important subject in
Latin American history. Subjects will
vary according to professor. Course
may be repeated with departmental
approval. Prerequisite: Graduate
standing.

LAH 5935 Topics in Latin American History (3). An examination of specific themes or topics in Latin American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be an-nounced in the yearly schedule). Pre-requisite: Graduate standing.

LAH 6906 Advanced Readings in Latin American History (3). Detailed analysis of a selected topic in Latin American history. May be repeated as topics vary. Prerequisite: Graduate standing.

LAH 6915 Research in Latin
American History (3). Students
conduct research in primary and
secondary sources on aspects of
important subjects in Latin American
history. Subjects will vary according to
professor. Course may be repeated with
departmental approval. Prereq-uisite:
Graduate standing.

WOH 5236 The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807 (3). Topics include slavery and economy in Africa and the Diaspora, as well as Diasporic religion, kinship, gender, sexuality, language, oral tradition, resistance, and creolization.

WOH 5237 The African Diaspora Since the End of the Slave Trade (3). Primary emphasis on history of social and intellectual movements. Topics include slave resistance, black nationalism, socialism, anticolonialism, gender, art and literature, and afrocentrism.

International Relations

John F. Clark, Associate Professor and Chairperson

Clair Apodaca, Assistant Professor Ken I. Boodhoo, Associate Professor Thomas A. Breslin, Associate

Ralph S. Clem, Professor Peter R. Craumer, Associate Professor

Francois Debrix, Assistant Professor Damiau J. Fernandez, Professor Jeouifer Gebelein, Assistant Professor Harry D. Gould, Visiting Lecturer Gail M. Hollander, Assistant Professor

Antonio Jorge, Professor
Paul Kowert, Associate Professor
Charles G. MacDonald, Professor
Felix Martin, Assistant Professor
Mohiaddin Mesbahi, Associate

Professor
Rod Neumann, Associate Professor
Nicholas G. Ouuf, Professor
Patricia L. Price, Assistant Professor
Elisabeth Prugl, Associate Professor
William O. Walker III, Professor
Gregory B. Wolfe, Emeritus Professor

The Department of International Relations offers two advanced degrees: a Master of Arts in International Studies and a Doctor of Philosophy in International Relations. The Department emphasizes a multidisciplinary approach to graduate education. This emphasis reflects the many disciplines and perspectives represented in the Department, and it results in a vital and challenging exchange of ideas among students and faculty members. Together they investigate a stimulating range of topics, from the traditional concerns of foreign policy and national security to contemporary global issues such as democratization, the environment. human rights, refugees, and social movements. These scholarly inquiries are generally informed by engagement with social and political theory, to which students are exposed through a closely coordinated set of graduate reading seminars. Many members of the Department have longstanding regional interests, as do many other members of the University faculty. The program boasts of strengths in Africa, Central Asia, Latin America and the Caribbean, the Middle East, and Russia.

The Department of International Relations is an affiliate member of the

Association of Professional Schools of International Affairs.

Master of Arts in International Studies

The MA program draws on the curricular resources of all the University's social science departments. It is designed to prepare students for careers in government, the private sector, or international agencies, or for doctoral studies.

The College of Arts and Sciences offers certificate programs in African-New World Studies and in Latin American and Caribbean Studies. Other regional certificate programs are planned. The graduate program encourages its MA students to pursue regional certification in conjunction with their work in the MA program.

Admission Requirements

To be considered for admission to the MA program, applicants must have a 3.0 in upper-level work, or its equivalent, from a recognized institution, and a combined score of 1000 on the first two sections of the Graduate Record Examination. For applicants who are not native speakers of English, a minimum of 550 on the TOEFL is required. Admissions requirements are minimums and even if the minimums are met, admission is not assured. Scholarships and renewable assistantships are available.

Degree Requirements

The MA program requires a minimum of 36 semester hours of credit at the graduate level. Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 36 hour minimum requirement. The Graduate Advisory Committee may approve the transfer of a maximum of six graduate credits earned in an other recognized institution of higher education.

Core Sequence (15 credits)

All MA students must complete a core sequence of five courses (15 credits), each of which reflects a distinctive disciplinary point of view. These courses are:

GEO 6473 Space, Place and

INR 6706 Political Economy of International Relations

INR 5615 Research Design in International Relations INR 6609 Dynamics of

International Relations

in the 20th Century Comparative Approaches to Area Studies and Global Issues

Major Field (9 credits)

INR 6017

MA students also must select a major field of study in (1) Global Institutions and Issues, or (2) International Relations and Foreign Policy, by taking three courses (9 credits) from an extensive list of approved courses in the social sciences. Students must take at least two courses offered by the Department of International Relations to satisfy the field requirement.

Electives: (6 credits)

To satisfy the program's elective requirement, students may take two additional courses (6 credits) from the field lists. Students wishing to elect other graduate-level courses offered by the University may do so with permission of the Graduate Director.

Thesis and Alternatives (6 credits)

To complete degree requirements, MA students have the option of (a) writing a thesis or (b) taking a comprehensive examination. Before electing any of options. students must demonstrate competence in the use of a foreign language other than English. Any student electing (a) to write a thesis will normally take 6 credit hours of thesis supervision and prepare a thesis proposal subject to the approval of three members of the University faculty. A member of the Department of International Relations must chair any thesis committee thus constituted. No thesis may be approved until the writer has defended it in a public examination. Any student electing (b) to take a comprehensive examination must have 6 semester hours of course work (including independent study courses), instead of thesis supervision. for a total of 36 semester hours. One half of the comprehensive examination will cover the core sequence of courses, and the other half will cover the student's major field.

Doctor of Philosophy in International Relations

The Ph.D. program is designed to prepare students for careers as scholars and teachers. It provides students with a solid theoretical foundation while allowing individual latitude for rigorous research on a wide range of subjects. Students work closely with dedicated, internationally recognized scholars.

Admission Requirements

To be considered for admission to the Ph.D. program, all applicants must have a bachelor's degree, or its equivalent, from a recognized institution of higher education, or have received a bachelor's degree before they matriculate in the program.

Applicants should have a minimum undergraduate grade point average of 3.2, or its equivalent, a minimum grade point average of 3.5 for all combined graduate work, or a combined score of 1100 on the first two sections of the Graduate Record Examination, For applicants who are not native speakers of English, a minimum of 575 on the TOEFL is required. Scholarships and renewable assistantships are available. Applications will be reviewed only in the spring term for fall admission.

Degree Requirements

The Ph.D. requires a minimum of 90 semester hours of credit at the graduate level.

Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 90 hour minimum requirement. Students earning a MA degree within the last five years may count 36 credits toward the 90 hour minimum requirement. The Graduate Advisory committee may approve the transfer of a maximum of 12 graduate credits earned in a non-degree capacity from the Department of International Relations, and a maximum of 24 semester hours of graduate credit earned in other units of the University or other recognized institutions of higher education.

Core Sequence (18 credits)

All Ph.D. students must complete a core sequence of six courses (18 credits). These courses are: GEO 6473 Space, Place, and

	Identity
INR 5615	Research in
	International Relations
INR 6604	International Relations
	Theory I
INR 6608	International Relations
	Theory II
INR 6609	Dynamics of
	International Relations
	in the 20th Century
INR 6706	Political Economy of

International Relations

Major and Minor Fields (21 credits)

Students must select a major field of study in (1) Global Institutions and Issues (2) Comparative Area Studies (3) Foreign Policy and Security Studies, or (4) International Law by taking four courses (12 credits) from a list of approved courses. Students must also offer a minor field of study consisting of at least three courses (9 credits), (a) by choosing a second field from the above list, (b) by taking a Ph.D. field in some other teaching unit of the University, or (c) by creating a field in consultation with the Graduate Director and three members of the University faculty.

Electives (27 credits)

To satisfy the Ph.D. program's elective requirement, students must take 27 credits of additional course work, including independent study courses. Students wishing to elect a course or courses offered in the University may do so with permission of the Graduate Director. Students must demonstrate an ability to use a foreign language other than English for scholarly purposes.

Comprehensive Exams

Within 6 months of completing the foreign language requirement and 66 hours of course work, students must sit for written comprehensive examinations on the core sequence in both of their fields. Students may sit for their comprehensive examination during the term in which they complete these requirements. After passing all three parts, students are examined orally on all parts.

Dissertation

Within 3 months of passing written and oral examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least three qualified scholars. Two members of the committee, including the dissertation supervisor, must be members of the Department of International Relations. Other members must be approved by the Graduate Director.

Students advance to candidacy when all members of their dissertation committees accept their proposals.

To complete program requirements, Ph.D. degree candidiates must enroll for 24 dissertation credits and therefore maintain matriculation until they defend their dissertations in public.

Course Descriptions

Definition of Prefixes

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

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

GEA 6409 Landscapes of Violence and Healing in the Americas (3). Nation building in the Americas cycles between violence (political, economic, cultural) and healing (through magic, rituals. religion or the Prerequisite: Graduate Standing.

GEO 5415 Topics in Social Geography (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEA 2000 or Permission of the instructor.

GEO 5557 Globalization Examines the transformation of the world economy and of global finance, the changing significance of sovereignty and territoriality, the effects of space-time compression on everyday life, and associated shifts in culture and identity.

GEO 6473 Space, Place and Identity (3). Explores space, place and identity in international relations. Focus is on the importance of the spatial relations in structing the politics of nationalisms, ethnicities, and genders.

INR 5036 Politics of Globalization (3). Intensive examination of state and global institutions that have shaped process of economic globalization. Topics include impact on sovereignty, human rights, labor and agenda-setting of large and small nation-states.

INR 5086 Islam in International Relations (3). Analysis of the role of Islam in shaping the dynamics of contemporary international relations. Emphasis on the ideological, cultural, and political role of Islamic movements and states, and their relations with the

INR 5087 Ethnicity and the Politics of Development (3). This course the conceptual examines 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 5255 Seminar in African Development (3). Examines political, economic and social development in Sub-Saharan Africa in an international context. Introduces students to sources for research in African international development. Prerequisites: Undergraduate course on Africa or graduate standing.

INR 5315 Foreign Policy Analysis (3). Comparative examination of theories of foreign policy making, emphasizing the international, domestic, and organizational contexts in which national policies are formulated and enacted. Prerequisites: Graduate standing or Permission of the instructor.

INR 5409 International Law I (3). Role of international law in the relations of states; nature, development, theory, sources of law; international personality; jurisdiction, including territory and nationality; dispute settlement.

INR 5507 International Organizations I (3). Study of international
organizations and their role in
international relations. Emphasis on
their legal status, rule-making
capacities and role in dispute settlement
and maintenance of peace.

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 5615 Research Design in International Relations (3). Introduces graduate students to the principles of formulating and defending a compelling research design, gathering and analyzing evidence, and producing scholarship.

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

INR 5935 Topics In International Relations (3). Varies according to the instructor. Prerequisite: Graduate standing.

INR 5943 Internship in International Relations (1-6). Permits student to gain direct experience with analysis and conduct of international affairs. Work required for internship must be determined in consultation with instructor. Prerequisites: Graduate standing and permission of the instructor.

INR 5945 Graduate Pedagogy (1). The development of teaching skills required by graduate assistants, including classroom skills, designing examinations, etc. Prerequisite: Graduate Assistants.

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 6017 Comparative Approaches to Area Studies and Global Issues (3). Provides students the necessary tools to approach global issues from the comparative perspective of how they play out in different regions of the world.

INR 6019 Seminar in Comparative Area Studies (3). Examines contemporary issues in area studies, with focused attention on the interplay between domestic and international forces and the conditioning effects of global structures. Topics vary by instructor. Prerequisite: Graduate standing.

INR 6056 Environment and Development (3). Examines the relationship of development and the environment from a social theory perspective. Emphasizes Third World problems such as deforestation and soil erosion.

INR 6089 International Relations and Human Rights (3). Examination of national and international factors affecting respect for human rights. Special emphasis on international human rights groups, foreign policy, and politics of policy implementation.

INR 6107 U.S. Foreign Policy (3). Examines the structures and processes that shape U.S. policy toward other nations. Topics include: systemic constraints, state/society relations, interest groups, bureaucracy, and leadership.

INR 6209 Comparative Foreign Policy of Latin America (3). Theories, history, and political-economic dynamics of Latin American foreign policies and international relations. (S) INR 6266 Seminar in Russian Foreign Policy (3). Close analysis of the theoretical foundation and policy evolution of Soviet/Russian role in international affairs of the 20th century.

INR 6338 Seminar in Strategic Studies (3). Close analysis of key traditional and non-traditional concepts of the field of Strategic Studies, i.e. the genesis of power, war and peace, security and their relevance to and impact on International Relations.

INR 6406 International Law II (3). The course, which is the second of a two course graduate sequence, focuses on special topics, e.g., treaties, state responsibility, force and jurisdiction. Prerequisite: International Law I.

INR 6604 International Relations
Theory I (3). An analysis of the
traditional approaches to international
relations theory, beginning with the
classic works in the field. Emphasizes
the philosophical and normative
underpinnings of realism, idealism,
liberalism and radicalism.

INR 6605 Contemporary International System (3). Study of synthetic review of theories of development and approaches to the study of development as a process of social, political, and economic change. Prerequisites: CPO 5036 and ESC 5025.

INR 6606 Political Psychology of International Relations (3). Study of psychological explanations for political behavior in international relations. Topics include: cognitive, motivational, and bureaucratic decision theories; leadership; and public opinion.

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

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

INR 6706 Political Economy of International Relations (3). Examines contempory theoretical and policical economy. Reviews key concepts, theories and approaches used

in the study of IPE. Prerequisites: INR Theory I or Permission of the instructor.

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

INR 7980 Ph.D. Dissertation (1-12). Supervised research on an original research project to be submitted in partial fulfillment of doctoral degree requirements. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

Latin American and Caribbean Studies

Eduardo A. Gamarra, LACC. Director

Michael W. Collier, LACC, Graduate Program Director

LACC Academic Advisory Committee

Irma Alonso, (Economics) David Bray, (Environmental Studies) Victor Uribe, (History) William Vickers, (Sociology/

Anthropology)

The Master of Arts in Latin American and Caribbean studies (MALACS) is a multidisciplinary program that requires students to concentrate half their courses in one disciplinary or topical area. The program's objective is to prepare graduates for careers as analysts for the public and private sectors. Many graduates also continue on to doctoral-level studies in several academic disciplines. While the program is strongest in the social sciences, opportunities are available for students to also concentrate their study in the areas of cultural studies, environmental studies. history. international business, and modern Full-time students can languages. expect to complete the program in 12-24 months. The program stresses a faculty-student advising close relationship and includes the participation of visiting scholars from Latin America, the Caribbean, and other regions.

MALACS is administered by the FIU Latin American and Caribbean Center (LACC), one of the largest area and language studies centers in the US that specializes in the region. In addition to the MALACS degree, LACC also administers a joint JD/MALACS degree program with the FIU College of Law that allows the student to receive both degrees in substantially less time that would be required to pursue each degree individually. LACC also administers a partnership degree program with the Joint Forces Staff College. More information on joint and partnership degrees is found at the end of this section.

For further information please contact LACC Graduate Program Director, Latin American Caribbean Center, Florida International University, University Park DM 353, Miami, Florida 33199. Phone: (305) 348-2894; Fax: (305) 348-3593; email:

the MALACS@fiu.edu, or see MALACS web site at http://lacc.fiu.edu/academic programs/ masters arts frm.htm.

Admission Requirements

Applicants must meet the following minimum admissions requirements:

- 1. Completed FIU graduate application.
- A baccalaureate degree from an accredited institution for higher education, or equivalent.
- 3. A grade-point average of at least 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate study and for any post-baccalaureate study.
- Α combined verbal and quantitative score of at least 1000 on the GRE.
- statement of purpose consistent with the goals of the program.
- Three letters recommendation.
- 7. For foreign applicants whose native language is not English, a TOEFL score of at least 550.
- Application for M.A. assistantship or fellowship (if applicable).
- Approval by the program admissions committee.

admission The above requirements are minimums and not all students meeting them are assured admission. Students with either a grade-point average or GRE score below the above minimums may still admissions and request consideration under waiver of normal minimum standards. The student must provide an explanation of why the waiver is being requested.

Degree Requirements

The MALACS program requires 36 graduate credits. Nine credits consist of the program's multidisciplinary gateway course (3 credits) and two research methods courses (6 credits). Twelve credits are taken in one of the MALACS concentrations (Caribbean Studies, Cultural Studies, Economics, Environmental Studies, History. International Business, International and Comparative Law, International Relations, Modern Languages, Political Science, Security Studies Sociology/Anthropology). Nine credits of breadth requirements are taken from at least two other areas of MALACS concentration or from courses outside the concentrations with Latin American and Caribbean content. MALACS offers four graduation exit options:

- Completion of thesis project (6 credits).
- Participation in one semester internship and preparation of a major research paper (6 credits),
- Completing two directed research projects (6 credits),
- 4. Taking six (6) additional credits of Latin American and Caribbean and passing comprehensive examination.

As a non-credit requirement, students must demonstrate reading proficiency in either Spanish or Portuguese or, when approved, another foreign language from Latin America or the Caribbean.

Note: The International and Comparative Law concentration is only available to students in the joint JD/MALACS degree program described below.

MALACS Course Work

A minimum of thirty credits of course work, to be selected from the approved list of MALACS graduate courses, is required. Courses must be passed with a grade of 'B' or better and distributed as follows:

- The gateway course, LAS 6003 Survey of Latin America and the Caribbean (3 credits).
- The student's MALACS concentration graduate course in research methods (3 credits) and LAS 6930 Latin American and Caribbean Data Analysis (3 credits).
- MALACS concentration: twelve credits (four courses) selected from the graduate offerings of the concentration student's Studies Cultural (Caribbean Studies, Economics, Environ-Studies. History, mental International Business, International and Comparative Law, International Relations, Modern Political Science, Languages, Studies. ΩТ Security The Sociology/Anthropology). introductory theory or the gateway course in the concentration are recommended.
- Breadth requirement: nine credits (three courses) selected from the graduate offerings of at least two MALACS concentrations other than those of the student's primary

concentration. Subject to approval of the LACC Graduate Program Director, up to six credits (two courses) may be selected from the graduate offerings of FIU programs outside those of the MALACS concentrations, provided the courses have substantial Latin American and Caribbean content.

FIU policy also allows the transfer of 6 graduate credits from other universities or between FIU graduate programs, provided the courses meet program subject matter requirements.

Foreign Language

Each student is required to demonstrate reading proficiency in either Spanish or Portuguese, or in another language such as French, Haitian Creole, or Dutch when justified by research interests. Proficiency is demonstrated by scoring at least 'intermediate high' on the ACTFL/ETM exam for Spanish, Portuguese, or French. For other languages, corresponding tests of proficiency and levels of achievement will be required.

Intermediate-high on ACTFL/ETS exam (1-plus on the US government scale) can normally be attained by students with two undergraduate semesters of basic langauge instruction and at least one undergraduate semester of intermediate (3000/4000 level) instruction. Attainment of the required language proficiency is the responsibility of the student and extra instruction to achieve the required proficiency level must be outside the MALACS curriculum. Fellowships and scholarships to study Portuguese and Haitian Creole are available to selected MALACS students. Opportunities for students to improve their language proficiency is provided in courses offered by the FIU Modern Languages Department, through special summer institute language programs, and by taking designated Foreign Language Across Curriculum (FLAC) courses. Completion of a FLAC course meets the MALACS language proficiency requirement.

Research Methods

A minimum of six credits (two courses) in research methods must be fulfilled by taking the student's MALACS concentration graduate course in research methods and LAS 6930 Latin American and Caribbean Analysis. When a concentration area

does not have a specific graduate course in research methods, then the student should take SYA 6305 Research Methods I to meet this requirement. The LACC Graduate Program Director may approve substitute research methods courses depending on the student's previous research methods background and research interests.

MALACS Graduation Exit Options

Thesis Option

Students pursuing careers in the public or private sectors requiring strong research and analytic skills, or students planning to continue with Ph.D. studies, are encouraged to select the MALACS thesis exit option. thesis is publicly defended and approved by a committee of three faculty members. The committee chair and at least one other member must be from FIU departments offering courses in the MALACS concentrations. The committee as a whole must be drawn from at least two concentration departments. During the thesis period, students register for thesis credits (six credits minimum required) with their thesis committee chair.

Internship Option

As a substitute for the thesis option, students may select an internship exit option. The internship exit option entails a one semester resident internship in either the public or private sectors. Internships are related to the student's MALACS concentration. A major professor from a department offering MALACS concentration courses supervises the internship. Internships may be arranged through LACC or by the student. completion of the resident internship, the student prepares and publicly defends a major research paper related to the internship. During the internship period, students register for internship credits (six credits minimum required) with their major professor.

Directed Research Option

Another substitute for the thesis option is a directed research exit option. Students selecting this option will prepare and publicly defend two major research papers during this option. One research paper will address a topic the student's MALACS concentration and the second paper an interdisciplinary topic of more general interest to the region. Students will register for two directed research courses (3 credits each) with thier major professor(s).

Comprehensive Examination Option

A comprehensive examination exit option is available for mid-career professionals who already possess strong research and analytic skills or for those whose educational interests do not encompass a thesis or internship Students selecting the comprehensive examination option complete two additional courses in Latin American and Caribbean studies (6 credits required). The LACC Graduate Program Director arranges for the student to take comprehensive examinations covering the student's MALACS concentration and multidisciplinary Latin American and Caribbean issues.

Course Descriptions

Definitions of Prefixes

FLAC - Foreign Language Across Curriculums:

LAS - Latin American and Caribbean Studies:

SSI - Interdisciplinary Courses. F - Fall semester offering; S - Spring semester offering: SS - Summer semester offering.

LAS 5907 Independent Study (1-3). Supervised readings or field research and training. Prerequisite: Permission of instructor. (F,S,SS)

LAS 5920 Teaching Latin American Studies (1). Fundamentals in the teaching of Latin American Studies. Relevance and effectiveness of various methods and strategies, as well as pedagogy-related exercies. Prereguisite: Graduate standing. (F)

LAS 5933 Graduate Seminar in Latin American Studies (1). Exposes graduate students to interdisciplinary issues for students pursuing the MA in Latin American and Caribbean Studies. May be repeated for credit up to 3 times. Prerequisites: Graduate Standing. (F,S,SS)

LAS 6003 Survey of Latin America (3). Seminar is a multidisciplinary, multimedia survey of the history, politics, societies and cultures of the countries of Latin America and the Prerequisite: Graduate Caribbean. standing. (F)

LAS 6025 Seminar: The Humanities in Cuba (3). Interdisciplinary graduate seminar on the development of the

humanities in Cuba, focusing on the major movements, artists and works in architecture, visual arts, literature, music and dance. (F)

LAS 6905 Directed Research In Latin American and Caribbean Studies (3). Directed research under a major professor conducted to meet MALACS graduation requirements instead of a thesis. Two directed research courses are required. Prerequisite: Completion of all MALACS courses. (F,S,SS)

LAS 6930 Latin American and Caribbean Data Analysis (3). This course introduces students to basic empirical data analysis techniques while they complete an empirical research project in a Latin American or Caribbean topic. Prerequisite: Recommend a graduate research design course. (S)

LAS 6934 Research Seminar In Latin American and Caribbean Studies (3). Introduces students to intermediate level research methods while they complete a directed research project in Latin American and Caribbean studies. Prerequisites: LAS 6930 or equivalent. (F)

LAS 6942 Internship in Latin American and Caribbean Studies (1-6). Supervised internship leading to a major research paper in Latin American and Caribbean Studies. Prerequisites: All MALACS Course Work completed. (F.S.SS)

LAS 6970 Thesls (1-6). Requires students to enroll for thesis research for at least one credit hour every semester until thesis is completed. Prerequisite: Completion of all MALACS courses. (F.S.,SS)

MALACS Approved Courses

A sample of courses approved for each MALACS concentration is provided on the MALACS web site at http://lacc.fiu.edu/academic_programs/masters arts frm.htm.

Courses approved for the MALACS program are posted each semester on the FIU Class Schedule at http://sis2.fiu.edu/classschedule.

Under Special Programs and Certificate Programs select Latin American & Caribbean Studies. All courses listed from 5000 through 7000 series may be applied to the certificate. Approved courses are also posted each semester outside LACC (DM 353) or are available from the Graduate Program Director.

MALACS Joint and Partnership Degree Programs

Joint JD/MALACS Degree Program

An agreement between the FIU College of Law and the College of Arts and Sciences approved by the University Graduate School allows students to pursue simultaneously the Juris Doctor (JD) and MALACS degrees, thereby saving considerable time over pursuing each degree separately. Students must meet the entrance requirements for both the JD and MALACS programs. Fifteen credits from the law school curriculum will be allowed toward the MALACS program and will constitute concentration MALACS International and Comparative Law. Nine credits from the MALACS program will also count toward the law school curriculum requirements. All other requirements to receive either the JD or MALACS degree must be met. Additional information on the joint degree program is available on the College of Law and MALACS web

MALACS Partnership Degree with the Joint Forces Staff College

An agreement between FIU and the Joint Forces Staff College (JFSC) of the National Defense University, allows JFCS graduates to transfer 15 JFSC credits toward the MALACS degree completion requirements. which constitute a MALACS concentration in Security Studies. Students wishing to take advantage of this partnership must be accepted into the MALACS program through normal application procedures. Once accepted, students are required to take 15 credit hours of MALACS courses, including LAS 6003, LAS 6930, and three breadth courses in at least two MALACS concentrations other than Security Studies. JFSC students must also complete a MALACS exit option (6 credit hours) and meet MALACS language proficiency requirements. Additional information on the JFSC partnership degree program is available on the MALACS web site.

Liberal Studies

Paul Draper, Professor and Graduate Program Director

Sean Allen-Hermanson, Assistant Professor

Michelle Beer, Associate Professor Bongkil Chung, Professor Christopher Grau, Assistant Professor

Bruce Hauptli, Professor Kenneth Henley, Professor George Kovacs, Professor

George Kovacs, Professor Kenneth Rogerson, Professor Paul Warren, Associate Professor

Master of Arts in Liberal Studies

The Master of Arts in Liberal Studies (MALS) program is designed for students who possess a strong desire for intellectual growth and challenge and an interest in interdisciplinary research. It offers students individualized programs of graduate study that transcend traditional disciplinary boundaries and yet lie squarely within the venerable tradition of liberal education.

The MALS curriculum includes three sets of activities:

- Students take a least three Great Ideas Seminars, in which they study the books, theories, and discoveries that have had the greatest impact on the humanities, the natural sciences, and the social sciences.
- Students undertake an Interdisciplinary Concentration consisting of at least six courses spanning three different disciplines unified by a theme chosen by the student in consultation with an advisor.
- Students complete a Capstone
 Project either a Master's
 Thesis or a shorter Master's
 Essay on a topic related to the
 unifying theme of their
 Interdisciplinary Concentration.

Unlike many graduate programs in Liberal Studies, which have no departmental "home," the MALS program at FIU is housed in the Department of Philosophy, whose members (listed above) have responsibility for coordinating the program, teaching and arranging guest lectures for the Great Ideas Seminars, helping students develop their Interdisciplinary Concentrations, and

ensuring that Capstone Projects are supervised by appropriate experts.

Degree Requirements

Thirty-three semester credit hours of course work and a cumulative GPA of 3.0 are required for the MALS degree.

Great Ideas Seminars* 9
Interdisciplinary Concentration* 18
Master's Essay or Master's Thesis 3 or 6

*Since 33 hours are required of all MALS students. Students who receive 3 hours for a Master's Essay instead of 6 hours for a Master's Thesis must complete either four Great Ideas Seminars (12 hours) or a 21 hour Interdisciplinary Concentration.

A prospective MALS student may have already completed some graduate level courses either at FIU or elsewhere. Such graduate work may count towards the MALS degree and in particular towards the student's Interdisciplinary Concentration if the following conditions are satisfied.

 The student received a grade of "B" or better in those courses.

- Those courses are approved by the student's advisor and the Graduate Program Director. To obtain such approval, the courses must be appropriately related to the theme unifying the student's Interdisciplinary Concentration.
- No more than six semester hours can be transferred from another university.

Admission Requirements

To be admitted into the MALS program, a student must:

- Hold a bachelor's degree from an accredited college or university:
- Have a grade point average of 3.0 or better in upper-level work:
- Obtain a combined score (verbal and quantitative) of 1000 or higher on the Graduate Record Exam (GRE);
- Obtain a score of 550 or higher on the Test of English as a Foreign Language (TOEFL) if the student is not a native speaker of English; and
- Submit a substantial writing sample that is judged by the MALS admissions committee to be of satisfactory quality.

Course Descriptions

Definition of Prefixes

IDS – Interdisciplinary Studies. F-Fall semester offering; S-Spring semester offering

IDS 6931 Great Ideas Seminar: The Age of Science (3). Great ideas from the natural sciences. Study of the historical development, the evidential basis, and the broader implications of those ideas. Reflection on the nature and methods of modern science. Prerequisite: Graduate standing.

IDS 6937 Great Ideas Seminar:
Special Topics (3). Intensive interdisciplinary investigation of a single great idea such as natural selection or infinity. Study of that idea's cross-disciplinary development, its impact, and its uses and misuses. Prerequisite: Graduate standing.

IDS 6938 Great Ideas Seminar:
Human Nature (3). Great religious,
philosophical, and scientific ideas
about human nature. Discussion of the
view that human beings have no nature.
Study of such thinkers as Confucius,
Plato, Darwin, Freud, Skinner, and
Sartre. Prerequisite: Graduate
standing.

IDS 6939 Great Ideas Seminar: Politics and Society (3). Great ideas in political and social thought from Plato to the present. Topics include political obligation, the nature of the state, social and economic justice, social contract, liberty, the rule of law, and community.

Perequisite: Graduate standing.

IDS 6972 Master's Essay (3). For students working on a master's essay. Oral presentation required. Prerequisite: All other coursework for the Master of Arts in Liberal Studies Degree.

1DS 6973 Master's Thesis (1-6). For students working on a master's thesis. Prerequisites: Graduate standing and permission of the instructor.

Linguistics

Ferval Yavas, Lecturer and Director, English

Lynn M. Berk, Professor, English

Jean-Robert Cadely, Assistant Professor, Modern Languages

Isabel Castellanos, Professor, Modern Languages

Tometro Hopkins, Associate Professor, English

John B. Jensen, Professor, Modern Languages

Peter A. Machonis, Associate Professor, Modern Languages Ana Roca, Professor, Modern

Languages

Ellen Thompson, Assistant Professor, English

Mehmet Yavas, Professor, English

Master of Arts in Linguistics

Admission Requirements

Applicants must meet the University's Graduate general admissions requirements: GPA of minimum 3.0, two letters of recommendation, and an essay on the reasons of pursuing an M.A. in linguistics. In addition, nonnative speakers of English must submit a TOEFL score of 600.

Degree Requirements

The Master of Arts in Linguistics requires 36 graduate hours in Linguistics. Twenty-one of the 36 hours are in required courses, the remainder in electives. Beside maintaining an overall 3.0 average in all courses, students must also obtain a minimum of a 'B' in each of the required courses ('B-' is not acceptable in these courses) and a minimum of a 'C' in each elective course a ('C-' is not acceptable). Course work will be as follows:

Required Courses (All Students): (15)

LIN 5018	Introduction to	
Liiv Solo	Linguistics	3
L1N 5206	Phonetics	3
LIN 6323	Phonology	3
LIN 6510	Syntax 1	3
LIN 6805	Semantics	3

A minimum of one course from each of the following groups:

Ct + C (2)

h
Ind
е

History Course (3)

LIN 5107 History of the English Language

LIN 5146 Historical and Comparative Linguistics

SPN 5845 History of the Language FRE 5845 History of the Language

The remaining hours must be selected from other Linguistics (LIN) graduate offerings. Certain non-linguistics courses can be accepted with the approval of the Lingusitics Committee.

Foreign Language Requirement

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

Examination Requirement

Students will be required to take a written comprehensive exam in Linguistics. For most students, this will be a written exam. For any student who is writing a thesis and has a GPA of 3.7 or above, the thesis defense will constitute the comprehensive exam.

Thesis/Non-Thesis Options

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

Course Descriptions

Definition of Prefixes

LIN - Linguistics. F-Fall semester offering; S-Spring semester offering

LIN 5017 Cognitive Linguistics (3). Explores the nature of human reason and categorization as revealed by language. Examines the role of metaphor, imagination, and bodily experience in human thought processes. Prerequisite: LIN 3010, LIN 3013, L1N 5018 or the equivalent.

LIN 5018 Introduction to Linguistics (3). Introduction to Linguistic theory and analysis, with special emphasis on the major components of languages and modern approaches to their analysis.

LIN 5019 Metaphor, Language, and Literature (3). Examines nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisite: LIN 3013 or L1N 5018.

LIN 5107 History of the English Language (3). Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (F)

LIN 5108 Language Universals (3). Universal properties of language from two major perspectives: those of Typologists and of Universal Grammarians. A variety of linguistic structures and theoretical explanations are examined. Prerequisite: L1N 3013, or LIN 3010, or LIN 5018, or the equivalent.

LIN 5146 Historical and Comparative Linguistics (3). The study of linguistic methodology for determining historical and genetic relationships among languages. Diachronic syntax and its methodology will be included. The relevance of historical and comparative linguistics to similar processes found in language acquisition and to socio-linguistics will be studied. Prerequisite: LIN 5206.

LIN 5206 Phonetics (3). The study of the articulatory mechanisms used in producing speech sounds and of their acoustic properties. Ear training in the phonetic transcription of speech sounds used in the world's languages. (F)

LIN 5207 Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: L1N 3010, LIN 3013, LIN 5018 or the equivalent, plus one additional course in phonetics or phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5431 Morphology (3). The study of linguistic methodology

determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. Recent developments in linguistics that bear on language-universal and language-specific aspects of morphology. Prerequisite: LIN 6323.

LIN 5501 English Syntax (3). This course will focus on syntactic analysis of English. Although the course itself is non-theoretical, it uses a variety of underlying theoretical approaches to train students in syntactic analysis. (F.S.)

LIN 5574 Languages of the World (3). Introduces the student to the richness of human linguistic diversity while demonstrating concurrently the underlying universality of human language. Prerequisite: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

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

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

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

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

LIN 5715 Language Acquisition (3). The study of the processes underlying normal first-language acquisition. The focus is on the development of the subsystems of language (i.e., the phonological, morphological, syntactic, and semantic subsystems) in the child's growing command of his or her native language.

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

LIN 5732 Speech Errors and Linguistic Knowledge (3). This course cerrors produced by speakers in their native languages. Students will read research on errors produced by adult native speakers of a language, on first-language errors of children, and on errors made by persons acquiring a second language.

LIN 5733 Methods of Teaching Accent Reduction (3). Theory and methods regarding the teaching of pronunciation to non-native speakers of a language. Hands-on practice in helping non-native speakers improve their pronunciation. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5734 Teaching Linguistics (1). Introduces graduate students to pedagogical issues and strategies in the teaching of linguistics. Topics include textbook selection, writing syllabi, student assessment, and professional ethics. Prerequisite: Graduate standing.

LIN 5748 Survey of Applied Linguistics (3). Application of linguistics to problems in many fields, such as literature, translation, criminal justice, speech pathology, computer science, communications, public policy, and language instruction. Prerequisite: LIN 3010 or LIN 3013 or LIN 5018 or the equivalent.

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

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

LIN 5934 Special Topics in Linguistics (3). Content to be determined by instructor. May be repeated for credit when content changes. Prerequisite: LIN 3010, LIN 3013, or LIN 5018.

LIN 6323 Phonology (3). The study of phonological processes in languages and linguistic methodology for phonological analysis. Emphasis will be placed on recent theoretical questions concerning such issues as the abstractness of underlying forms, the naturalness of processes, and the relevance of markedness to a phonological description. Prerequisite: LIN 5206, Phonetics. (S)

LIN 6510 Syntax I (3). This course will expose students to the theoretical models on which much contemporary work in English grammar is based. Students will read works on selected topics such as structural linguistics, transformational grammar, and case grammar. Specific content may change from semester to semester. May be retaken for credit when content changes. Pereequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (S)

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

LIN 6562 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversational interactions and written texts. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 6572 Structure of a Non-Indo-European Language (3). An in-depth sturopean language. The particular language to be studied will be varied from semester to semester. Course may be repeated. Prerequisites: LIN 5018, LIN 5206, LIN 5222, and a course in syntax.

LIN 6602 Language Contact (3). A study of the language changes that occur when two or more languages come into contact with one another. The course will also examine the

characteristics of the individuals and communities involved in such contact.

LIN 6706 Current Research Methods in Psycholinguistics (3). Review of current research in psycholinguistics, including adult production and comprehension, first and second language acquisition, and language disorders, Students conduct original research in one of these areas. Pereequisite: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 6805 Semantics (3). The study of linguistic semantics. Language-universal and language-specific properties of the semantic structure of words and sentences will be considered. Students will be exposed to a variety of approaches to the study of meaning. Prerequisite: Introductory course in Linguistics or Permission of the instructor. (S)

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

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

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

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

Mathematics

Enrique Villamor, Professor and Chairperson

Gerardo Aladro, Associate Professor Laura DeCarli, Assistant Professor Tedi Draghici, Assistant Professor Julian Edward, Associate Professor

Domitila Fox, Instructor Susan Gorman, Instructor Gueo Grantcharov, Assistant

Professor Steven M. Hudson, Associate Professor

George Kafkoulis, Associate Professor

Mark Leckband, Associate Professor Thomas Leness, Associate Professor Bao Oin Li, Associate Professor

Diana McCov, Instructor Abdelhamid Meziani, Professor Richard Nadel. Instructor

Taje Ramsamujh, Associate Professor David Ritter, Associate Professor Michael Rosenthal, Instructor

Dev K. Rov. Associate Professor Richard L. Rubin, Associate Professor

Philippe Rukimbira, Associate Professor

Anthony C. Shershin, Associate Professor

Minna Shore, Instructor

Theodore Tachim Medjo, Assistant Professor

Louis Roder Tcheugoue Tebou, Assistant Professor

John Zweibel, Associate Professor

Master of Science in Mathematical Sciences

Admission

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

1. Bachelor's degree in mathematics, applied mathematics or mathematical sciences from an accredited university or college.

2. A 'B' average or higher in upper division mathematics courses.

3. Graduate Record Examination taken within the past five years, with at least 650 on the quantitative portion and 500 on each of the other two parts.

4. Three letters of recommendation concerning the candidate's achievement and potential, from persons familiar with the candidate's previous academic performance.

5. Approval of the Graduate Committee.

Core Courses

The student must complete a minimum of 24 semester hours of graduate course work. This course work must include 5 courses from the following two lists, with at least 2 from each list.

List A:		
MAA 5406	Complex Analysis	3
MAA 5616	Introduction to Real	
	Analysis	3
MAP 5316	Ordinary Differential	
	Equations	3
MAS 5311	Graduate Algebra	3
MAS 5312	Galois Theory	3
MHF 5107	Graduate Set Theory	3
MHF 5306	Graduate Mathematical	
	Logic	3
MTG 5326	Introduction to	
	Algebraic Topology	3
List B:		
MAD 5405	Numerical Methods	3
MAP 5236	Mathematical	
	Techniques of	
	Operations Research	3
MAP 5326	Partial Differential	
	Equations	3
MAP 5407	Methods of Applied	
	Analysis	3
MAS 5145	Applied Linear Algebra	3
Electives		

The remaining 9 hours of course work will be used to fashion a coherent program of study best suited to the student's needs and interest. This requires the prior approval of the Graduate Committee and may be done in one or a combination of the following ways: a) Further work from lists A and B. b) A maximum of 2 courses of independent study, taken with Mathematical Sciences faculty. c) Graduate level course work in Engineering, Physics or Statistics.

Master's Project

The student will complete his or her graduation requirements by writing an expository paper under the direction of a faculty member. The student may eam six credit hours (MAT 5970 Master's Research) in preparing the project. Successful completion of the Master's project requires a grade of 'B' or higher, as well as approval of a committee consisting of three mathematics faculty (including the director).

Remarks: The course work must be completed with a 3.0 GPA average or higher and a grade of 'C' or higher in each course. A maximum of two courses may be transferred into the program from outside the University,

subject to the approval of the Graduate Committee. A total of 30 credit hours is required for graduation.

Course Descriptions Definition of Prefixes

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

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

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

MAA 5406 Complex Analysis (3). Harmonic functions, normal families, Riemann mapping theorem, univalent functions, infinite products and entire functions, elliptic functions, analytic continuation. Prerequisites: MAA 4211 and MAA 4402.

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

MAD 5405 Numerical Methods (3). Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and nonlinear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3105 and MAP 2302.

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

MAP 5316 Ordinary Differential Equations (3). Existence and Uniqueness theorem, matrix formulation, physical applications, regular singular points, autonomous systems, Laplace transform, special topics. Prerequisites: MAA 3200, MAA 4402 and MAS 3105.

MAP 5317 Advanced Differential Equations for Engineers (3). Topics may include Bessel Functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Credit may not be counted for both MAP 4401 and MAP 5317. Credit for MAP 5317 may not be applied toward the Master's degree in Mathematical Sciences. Prerequisites: MAC 2313 and MAP 2302.

MAP 5326 Partial Differential Equations (3). Basic concepts of first and second order PDE's, application to optics and wave fronts, Cauchy problem, Laplace equation, Green's function, Dirichlet problem, heat equation. Prerequisite: MAA 4211.

MAP 5407 Methods of Applied Analysis (3). Convergence, fixed point theorems, application to finding roots of equations, normed function spaces, linear operators, applications to numerical integration, differential and integral equations. Prerequisites: MAA 4211, MAP 2302, and MAS 3105.

MAP 5467 Stochastic Differential Equations and Applications (3). Review of measure theory, stochastic processes, Ito Integral and its properties, martingales and their generalisations, stochastic differential equations, diffusions. Applications to boundary value problems and finance. Prerequisites: MAS 3105, MAP 4401, MAA 4211, MAA 5616 or permission of instructor.

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

MAS 5311 Graduate Algebra (3). A study of the basic material on groups, rings and vector spaces. Topics include the Jordan-Holder theorem, structure of modules over Euclidean domains and canonical forms of matrices. Prerequisites: MAS 4301 or equivalent.

MAS 5312 Galois Theory (3). Extension fields, ruler and compass constructions, fundamental theorem of Galois Theory, cyclotomic and cyclic extensions, solutions of equations by radicals, selected topics. Prerequisites: MAS 5311 or Permission of the instructor.

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

MAT 5921 Training in Mathematical Exposition (1). Students prepare and present supervised lectures on undergraduate mathematical topics to fellow students. Prerequisite: Graduate standing.

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

MHF 5106 Graduate Set Theory (3). Zermelo-Frankel axioms, ordinals and cardinals, Godel's constructible universe, large cardinals, forcing and the independence of the Continuum Hypothesis and the Axiom of Choice. Prerequisites: MHF 4102 or MAA 4211 or Permission of the instructor.

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

MHF 5325 Theory of Recursive Functions (3). Turing machines, decision problems, coding, s-m-n theorem, Rice's and Myhill's theorems, oracles, degrees, finite and infinite injury constructions. Prerequisite: MHF 4302 or COT 5420.

MTG 5326 Introduction to Algebraic Topology (3). Classification of surfaces, fundamental group, homotopy type, Van Kampen theorem, simplicial complexes, introduction to homology theory. Prerequisites: MAS 4301 and MTG 4302.

STA 5446-STA 5447 Probability
Theory I and II (3-3). This course is
designed to acquaint the student with
the basic fundamentals of probability
theory. It reviews the basic foundations
of probability theory, covering such
topics as discrete probability spaces,
random walk, Markov Chains (transition matrix and ergodic properties),
strong laws of probability, convergence
theorems, and law of iterated
logarithm. Prerequisite: MAC 2313.

STA 6807 Queueing and Statistical Models (3). Review of probability

concepts, basic probability distributions, Poisson process, queuing models, statistical models. Prerequisites: Permission of the instructor, MAC 2312 and either STA 3033 or STA 4321.

Modern Languages

Isabel Castellanos, Professor and Chairperson

Aurelio Baldor, Instructor

Pascale Becel, Associate Professor Jean-Robert Cadely, Associate Professor

Eric Camayd-Freixas, Assistant Professor

Ricardo Castells, Associate Professor James O. Crosby, Professor Emeritus Leonel A. de la Cuesta, Professor Asuncion Gomez, Assistant Professor Yvonne Guers-Villate, Professor

Danielle Johnson-Cousin, Associate
Professor

Santiago Juan-Navarro, Associate Professor

John B. Jensen, Professor

Emeritus

Peter A. Machonis, Associate Professor

Ramon Mendoza, Professor (Biscayne Bay Campus) Marian Montero-Demos, Associate

Marian Montero-Demos, Associate Professor

Ana Roca, Professor Reinaldo Sanchez, Professor Juan Torres-Pou, Assistant Professor Maida Watson, Professor

Marcelle Welch, Professor Theodore Young, Associate Professor Florence Yudin, Professor

Master of Arts in Spanish

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

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

2. Take the Graduate Record Examination (GRE) quantitative and verbal sections. Foreign students must also take the TOEFL and attain a minimum score of 550.

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

4. Demonstrate the ability to speak Spanish with near-native fluency and to write in Spanish. Demonstrate the ability to read English with excellent proficiency. An examination may be necessary. Contact the Director of Graduate Study (305-348-2851; Modern Languages, FIU, Miami, FL,

33199). Students with deficiencies will be required to complete certain course work before beginning graduate study.

5. Submit two letters of recommendation, preferably from persons in the academic community who are in a position to comment on the applicant's suitability for graduate work, a resume, and a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject.

6. Receive approval of the departmental graduate committee. Admission is competitive and meeting all minimum requirements does not guarantee automatic entrance into the program.

Degree Requirements

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

Core Courses (18 credits)

SPW 5806 Methods of Literary Research (must be taken in the first year of study)

SPN 5705 The Structure of
Spanish 3
One course in peninsular Spanish
Literature of the 19th or 20th

centuries.
One course in either Medieval Spanish
Literature or Literature of the
Golden Age.

Two courses in Spanish American Literature. (Colonial or 20th century) 6

Electives

A student must take at least nine graduate credits of electives, as follows: three in Spanish or Latin American literature, and six from one or more of the following areas: Spanish or Spanish American literature, Linguistics, Translation/Interpretation, or Culture of Spain, Latin America or Hispanics in the United States.

Graduation Requirements

To receive the M.A. degree in Spanish, a student must complete all the course

work with a 3.0 GPA or higher, and receive a minimum grade of 'B' in every course. Upon completion of 27 graduate credits (core and elective courses), students will have the option of writing a thesis (equivalent to six credits), or taking two elective courses and writing a research paper. The thesis will be presented to an ad hoc committee chosen by the student and his or her advisor. The research paper must be submitted to a committee of two professors of the Department. Upon completion of 33 credits, the student will be required to take Comprehensive Examinations, based on course work and on the Department's Graduate Reading List (the exams must be passed with a minimum grade of 'B'; they may be taken no more than twice).

Doctor of Philosophy in Spanish

The doctoral program in Spanish offers students the opportunity to specialize in one of two major fields: Peninsular Spanish Literature or Spanish American Literature, Minors are available in Peninsular Spanish Literature, Spanish American Literature, and Hispanic Linguistics.

Admission Requirements

To be admitted to the doctoral program, a student must:

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

2. Take the Graduate Record Examination.

3. Demonstrate the ability to speak, understand, read, and write in Spanish with near-native fluency. Demonstrate the ability to speak and read in English with excellent proficiency. For students whose native language in not English, the TOEFL is required, and they must obtain a score of 550 or higher.

4. Have attained a minimum grade point average of 3.0 (B average) during the last two years of her/his undergraduate studies or attain a combined (verbal and quantitative) score of at least 1000 in the GRE. Applicants with Master's degrees are required to have a graduate GPA of 3.5. A GPA of 3.5 in graduate Spanish courses is expected in such cases.

5. Apply for graduate admission to the Admissions Office and submit to the Department of Modern Languages the following documentation: a) two letters of recommendation from former professors in the format required by the Graduate Studies Committee, b) a resume, c) a statement of purpose in English or Spanish, addressing the candidate's goals and objectives in pursuing a doctorate in Spanish, and d) a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject.

6. Receive approval of the departmental Graduate Studies Committee. Admission is competitive, and meeting all minimum requirements does not guarantee automatic entrance to the program.

Degree Requirements

The doctoral program consists of 90 semester hours of graduate level work beyond the Bachelor's degree, distributed as follows: 66 graduate credits of courses and 24 credits of dissertation. Students holding Master of Arts degrees in Spanish or Hispanic Studies will be considered for admission and some or all of their graduate credits may be counted toward the doctoral degree after being evaluated and approved by the Graduate Studies Committee. Students will be able to transfer a maximum of 36 graduate credits from other universities.

Core Courses (12 credits)

All core courses must be taken as graduate courses offered by the university and may not be taken as independent studies:

- 1. SPW 5806 Methods of Literary Research
- 2. SPN 5705 The Structure of Spanish
- 3. SPW 6718 Historiography of Literature
- 4. SPW 6825 Literary Theory and Criticism

Distribution Requirement (15 credits)

All students must take:

One course in Medieval or Golden Age Peninsular Spanish Literature

One course in Peninsular Spanish Literature of the 18th, 19th or 20th century

One course in Colonial/19th century Spanish American Literature

One course in 20th century Spanish American Literature

One additional course in Spanish American Literature

Major Field (18 credits)

All students must take at least 18 credits of electives in their elected field of specialization.

Minor Field (12 credits)

Twelve credits of electives in the student's chosen field (Peninsular Spanish Literature, Spanish American Literature, or Hispanic Linguistics).

Electives (9 credits)

Students may choose from graduate courses in literature, linguistics, culture, and translation/interpretation.

Dissertation (24 credits)

Graduation Requirements

To receive a Ph.D. in Spanish, a student must complete all courses with a GPA of 3.0 or higher, and receive a minimum grade of 'B' in every course. Before graduation the student must demonstrate a reading knowledge of a language other than English or Spanish, chosen by the student in consultation with her/his adviser. Upon completion of 33 graduate credits beyond the Bachelor's degree, students must take qualifying written and oral examinations which will determine whether they are permitted to continue their studies toward the doctorate or whether they should be terminated, with or without a master's degree. In the case of students registered for the master's degree, the M.A. comprehensives will also serve as a qualifying examination for the Ph.D. Following completion of most of the course work, students are required to take written and oral doctoral comprehensive examinations. They must be passed with a minimum grade of 'B' and may not be taken more than twice. A student is formally considered a doctoral candidate upon successful completion of the comprehensive examinations and the acceptance of a dissertation proposal. Students must write and successfully defend a doctoral dissertation before a committee of three faculty members, two of whom must be from the graduate program faculty.

Course Descriptions

Definition of Prefixes

FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature; FRE-French Language; FRT-French Translation; FRW-French Literature (Writings); GER-German Language; LIN-Linguistics; POR-

Portuguese Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings).

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

F1L 5526 Spanish Film (3). The history of film in Spain and discussions of films by the most important 20th Century directors.

F1L 5527 Latin American Film (3). The study of 20th Century films and documentaries produced by leading Latin American directors. Films are examined in relation to Latin American Society and its literary creations.

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

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

FOL 5945 Foreign Exchange Internship (0). Foreign exchange students perform graduate rersearch in the Department of Modern Languages and English as a corequisite to their assistantship in the Modern Languages Department.

FOT 5125 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arts (3). The language barrier and translation and interpretation. Types, modes, and quality of T/I: philological, linguistic, and socio-linguistic theories. History of T/I from Rome to date. The impact of T/I on Inter-American developments. Prerequisite: Graduate standing or permission of the instructor.

FOW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 5545 Bicultural Writings (3). Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 5587 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic:

FOW 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 1 (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 11 (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: FRE 5060 or equivalent.

FRE 5508 La Francophonie (3).

Analysis of the different varieties of French spoken outside of France. Includes Quebec French, African French, and French Creoles. Also examines the political alliance of Francophone countries. Credit will not be given for both FRE 4503 and FRE 5508. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

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

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

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

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

FRE 5855 Structure of Modern French (3). Systematic study of the phonology, morphology, syntax, and lexicon of Modern French. Taught in English. Credit will not be given for both FRE 4850 and FRE 5855.

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

FRT 5805 Translation/Interpretation Arts (3). Techniques of professional translation and interpretation. Prerequisite: FRT 4801.

FRW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FRW 5934 Special Topics in Language Literature (3). Content and objectives to be determined by student and instructor.

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

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

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

HA1 5235 Haitian Creole Seminar (3). A study of the phonological and morpho-syntactic structures of Haitian Creole. Patterns of language usage and attitude. Prerequisite: Graduate standing.

LIN 5207C Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent, plus one additional course in phonetics or phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

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

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

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

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

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

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

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

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

LIN 6934 Special Topics In Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.) (See English listing for additional Linguistics courses.)

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

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

SPN 5525 Spanish American Culture (3). A graduate survey of the major artistic phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisite: Graduate standing and permission of the instructor.

SPN 5536 Afro-Cuban Culture (3). Explores the role played by blacks in Cuban culture. Issues studied include: Afro-Cuban religions, languages, amusic, as well as the Afro-Cuban presence in literature and the arts.

SPN 5537 Special Topics in Afro-Hispanic Culture (3). Close examination of various topics related to the culture of African diaspora groups in the Hispanic world.

SPN 5705 The Structure of Spanish (3). An introduction to Spanish linguistics. Topics include Spanish phonetics, phonology, morphology, and syntax. Students who have previously taken Syntactic Structures of Spanish and/or Sound Structure of Spanish will not receive credit for this course. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5725 Syntactic Structures of Spanish and English (3). An in-depth study of syntactic structures in Spanish and English, with an emphasis on how linguistic theory can account for the similarities and differences between the two languages. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5805 Morphological Structures of Spanish and English (3). A survey of the morphologies of Spanish and English. Topics include the difference between isolating and synthetic languages, rich vs. impoverished agree-

ment, and syntactic ramifications of morphology. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5807 Syntactic Structures of Spanish (3). The study of syntactic structures in Spanish, topics include different syntactic approaches to current issues in Spanish syntax. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

SPN 5824 Dialectology of the Spanish Caribbean (3). Study of varieties of Spanish used in the Caribbean area, including Miami-Cuban Spanish. The course will take historical and contemporary perspectives and will involve research among informants in South Florida. Pre-requisites: LIN 3010. LIN 3013. or SPN 3733.

SPN 5845 History of the Language (3). Historical development of the Spanish language, primarily from the point of view of internal linguistic change. Spanish as an example of general processes of language development. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

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

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

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

SPN 6795 Phonological Structure of Spanlsh (3). Approaches to current issues in Spanish phonology. Linguistic methodology for the analysis of phonological processes in Spanish. Prerequisite: Graduate standing.

SPN 6825 Hispanic Dialectology (3). A study of the principal varieties of the Spanish language in the Spanish-speaking world, with special emphasis on Latin American Spanish. Prerequisite: Graduate standing.

SPN 6930 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.) SPN 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of Department.

SPN 7980 Ph.D. Dissertation (1-12). Research toward the completion of a doctoral dissertation. Repeatable. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

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

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

SPW 5135 Spanish American Literature for Teachers (3). Overview of major trends in Spanish American literature. Especially designed for school teachers and majors in modern language education. Not for M.A. or Ph.D. Spanish majors. Prerequisite: Permission of the instructor.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multilanguage problem, period, or aesthetic.

SPW 5225 Textual Reading and Analysis (3). Studies how texts are constructed, the role played by Poetics and Rhetoric in their formulation, and the context in which they were produced.

Prerequisites: Graduate standing.

SPW 5237 The Traditional Spanish American Novel (3). Study and analysis of the traditional Spanish novel as a form of art, from 19th century Lizardi's "El periquillo samiento", to 1950. The novels and authors studied are representative of 'costumbrismo', 'modernismo', 'modernismo', and 'criollismo'.

SPW 5277 Twentieth Century Spanish Narrative (3). Analysis of the Spanish novel from Ferlosio's "El Jarama" to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martin Santos, Umbral, Delibes, Benet, Goytisolo, and others will be included. SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations. defining and analyzing the qualities which give originality and newness both in themes and language.

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

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

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

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

SPW 5405 Medieval Spanish Literature (3). Readings in Medieval literature of Spain including the epic, the learned poetry of the XIIIth and XIVth Centuries, and the literature of Juan II's court. Prerequisites: Graduate standing and permission of the instructor.

SPW 5407 The Renaissance In Spain (3). Readings in the literature and cultural experssions of the Spanish Renaissance. Prerequisites: Graduate standing and permission of the instructor.

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

SPW 5426 Onevedo: Prose Satire (3). Close reading of selected satires in prose by Spain's greatest baroque satirist and creator of modern Spanish

satire. Includes Quevedo's picaresque novel "El Buscon", and his "Suenos", or "Visions of Hell".

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

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

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

SPW 5486 Modern Spanish Women Writers (3). Analysis of narrative works by Spain's most representative women writers from the 19th century to the present. Emphasis on the novel. Includes works by Pardo Bazan, Matute, Laforet, Martin Gaite. Prerequisites: Graduate standing or permission of the instructor.

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

SPW 5535 Spanish Romanticism (3). Study of Spanish Romanticism through the analysis of major literary figures of the movement: Larra, Zorrilla, Espronceda, Castro and Becquer. Prerequisite: Graduate standing.

SPW 5546 Hispanic Neoclassicism (3). Study of major Spanish and Spanish-American Neoclassic writers: Cadalso, Moratin, Jovellanos, Carrio de la Vandera, mier and Lizardi. Prerequisite: Graduate Standing.

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

SPW 5575 Spanish American Modernism (3). An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, focusing on Marti, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5585 Learning Technology in Spanish Pedagogy and Research (3). Exploration of the role of technology in today's language and literature learning environment. Overview of the WWW. Network-based communication, and electronic databases related to Hispanic language and literature. Prerequisite: Graduate standing or advanced undergraduate with permission of the instructor.

SPW 5595 Magical Realism and Typologies of Non-Realist Fiction (3). Theories of magical realism, fantastic and non-realist fiction, focusing on narrative technique. Authors may include Onetti, Borges, Cortázar, Asturias, Carpentier, Rulfo, Márquez, Allende or others. Prerequisite: Graduate standing or permission of the instructor.

SPW 5606 Cervantes (3). A comprehensive introduction to the masterpieces of Cervantes as the creator of the modern novel, and to critical theories about his art.

SPW 5729 Major Writers of the Generation of '98 (3). Study of the social and political circumstances of Spain at the turn of the XIX Century, and analysis of the work of Ganivet. Azorin, Baroja. Machado, Maeztu, Unamuno and Valle-Inclan. Prerequisite: Graduate standing or permission of the instructor.

SPW 5735 Hispanic Literature of the United States (3). Readings in the literature of Hispanics in the United States. Prerequisites: Graduate standing and permission of the instructor.

SPW 5756 Mexico in Poetry (3). Close reading of modern poets; discussion of essays on Theory and Practice. Students examine national representation in myth, symbol and metaphor. Prerequisites: 4,000 or 5,000 level course in Culture of Literature.

SPW 5776 Black Literature in Latin America (3). An examination of the different genres in Latin American literature focusing on the life of Afro-Hispanics, from the beginning of this literary tradition to the present time. Prerequisite: Graduate standing.

SPW 5781 The Representation of women in Spanish Literature and Film (3). Study of cinematographic adaptations of Spanish novels, plays and short stories. Analyzes the representation of the female subject in both literary and filmic works. Prerequisite: Graduate standing or permission of the instructor.

SPW 5786 Spanish American Women Writers (3). Through a selection of poems, plays and novels, this course studies Spanish American women production from Independence to the present times. Prerequisite: Graduate students only.

SPW 5806 Methods of Literary Research (3). Introduction to bibliography, methods of research, the composition of essays, rhetoric, and the presentation of documentation. Theory of literary criticism, and its practical application to texts in Spanish.

SPW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by student and instructor.

SPW 6238 Spanish American Historical Novel (3). The evolution of the historical novel in Spanish America from the Romantic period to the present. Stylistic, literary, and theoretical analyses of selected traditional and recent historical novels. Prerequisite: Graduate standing.

SPW 6216 Golden Age Prose (3).
Analysis of representative prose works from 16th and 17th century Spain.
Emphasis will be on the picaresque novel, the pastoral novel, autobiography, and the short story. Prerequisite: Graduate standing.

SPW 6335 Golden Age Poetry (3). An examination of major poetics (1450-1650); emphasis on historical/cultural contexts. Prerequisite: Graduate standing.

SPW 6345 Twentieth Century
Spanish Poetry (3). Close reading of
two of the greatest poets of the 20th
century (Jorge Guillen; F. Garcia
Lorca) and of major voices from the
Generation of 1927 and from postFranco Spain. Emphasis on cultural
contexts. Perequisite: Graduate standing.

SPW 6366 Studies In the Spanish American Essay (3). Stylistics of the essay, neoclassic to postmodern, as reflecting the intellectual spirit of the times. Analysis of arguments and methods of cultural epistemology in Bolivar, Marti, Paz and others. Prerequisite: Graduate standing.

SPW 6367 Prose and Poetry of Jose Marti (3). Study of Jose Marti's prose and poetry within the aesthetic and ideological contexts which characterize the discourse of Spanish American Modernism. Prerequisite: Graduate standing.

SPW 6368 19th Century Spanish-Caribbean Narrative(3). Studies the most popular literary trends of 19th century literature through the works of various Spanish-Caribbean writers. Prerequisite: Graduate standing.

SPW 6389 Cuban Novel and Short Story (3). Critical reading of representative texts of the Cuban novel and short story from XIX century to contemporary narrative expressions, within historical, social and artistic context. Prerequisite: Graduate standing.

SPW 6395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry,) or the study of interaction between literary types (e.g. novel and drama).

SPW 6495 The Latin American Experience Literature and Film (3). Literary and cinematic representations of significant periods in the formation of Latin American politics, culture, and identity. Prerequisite: Graduate standing.

SPW 6716 Seminar in Galdós (3). An in-depth study of the novels by Benito Pérez Galdós. Stylistic and theorectical analysis of a selection of Galdós' works, expecially his novelas españolas contemporáneas (contemporary Spanish novels). Prerequisite: Graduate standing.

SPW 6775 Literature of the Spanish Caribbean (3). Close readings of the Dominican Republic, Cuba and Puerto Rico. Emphasis on the characteristics of the literary discourse within the context of a regional literature. Prerequisite: Graduate standing.

SPW 6825 Literary Theory and Criticism (3). Study of the theoretical foundation of literature and contemporary systems of critical approach to literary discourse. Prerequisite: Graduate standing.

SPW 6826 The Historiography of Literature (3). Methodology and theory in the writing of literary history: periodization, continuity and change, literature in intellectual history. Prerequisite: Graduate standing.

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

SPW 7910 Pre-Disseration Research (1-9). Enables students to concentrate on completion of their dissertation prospectus during the term in which they take Ph.D. comprehensive exams. Prerequisite: Completion of all other Ph.D. coursework.

School of Music

Fredrick Kaufman, Professor and Director of School of Music (composition)

John Augenblick, Associate Professor and Director of Choral Studies

Kristine Burns, Associate Professor and Director of Music Technology (composition/electronic music) Gary Campbell, Associate Professor

(saxophone/jazz studies) John Cuciurean, Assistant Professor

(theory/history)

Robert Davidovici, Professor/Artistin-Residence (violin)

Robert B. Dundas, Assistant Professor and Director of Voice/Opera Studies (voicc/opera) Karen Fuller, Assistant Professor and

Director of Performing Arts

Production Carolyn Fulton, Assistant Professor (music education/world music)

Orlando J. Garcia, Professor and Director, Graduate Programs (music composition)

Kemal Gekic, Professor/Artist-in-Residence (piano)

Roby George, Assistant Professor and Director of Wind Performance

Sam Lussier, Assistant Professor and Director of Jazz Bands

Mark Gregory Martin, Lecturer and Director of Marching Bands

Clair McElfresh, Professor Emeritus (choral)

Michael Orta, Assistant Professor and Director of Jazz Performance (jazz piano)

Stewart Robertson, Professor/Artist in Residence and Director of **Orchestral Studies** (orchestra/conducting)

Joseph Rohm, Associate Professor and Director of Undergraduate Studies (theory)

Miguel Salvador, Associate Professor and Director of Keyboad Performance (piano/keyboard performance)

Arturo Sandoval, Professor/ Artist-in-Residence (trumpet)

Michael Wagner, Professor and Director of Music Education (music education)

Miami String Quartet (Artists in Residence)

Ivan Chan, (violin/chamber music) Chauncey Patterson, (viola/chamber

Cathy Meng Robinson, (violin/ chamber music)

Keith Robinson, (cello/chamber

Adjunct Instructors:

Keith Aleo, percussion

Scott Baker, accompanist and music appreciation

Sara Barton, accompanist and opera workshop coach

Jay Bertolet, tuba

Lindsey Blair, jazz guitar

Chia-Chun Chen, midi-technology Deborah Conquest, voice

Linda Considine, voice

Robert Craft, distinguished professor of music

John Dee, oboe

Jodie DeSalvo, accompanist

Loretta Dranoff, piano

Clark Ellision, sound reinforcement

Carlos Fernandex, saxophone

Deborah Fleisher, harp

Nicole Fortier, business of music

Felix Gomez, jazz piano

Luis Gomez-Imbert, string bass/new music ensemble/music appreciation Alexander Gonzalez, midi technology

Robert Grabowski, jazz history/sound engineer, evolution of Jazz

Paul Green, clarinet/chamber music

James Hacker, trumpet/chamber

Geoffrey Hale, bassoon Michelle Hemmings, voice

Mark Hetzler, trombone

George Hobbs, university chorale Jonathan Joseph, jazz drums

Suzanne Kirton, flute Michael Launius, percussion

techniques/percussion ensemble Jose Lopez, piano/accompanying Sam Lussler, jazz arranging/jazz lab

band Nancy Luzko, keyboard Dennis Marks, jazz bass Gregory Miller, French horn Francisco Muller, accompanist

Hector Neciosup, Latin percussion Mark Nerenhausen, live music

operations Alan Ngim, accompanist Nicky Orta, jazz electric bass

Adela Peeva, accompanist

Edward Pierson, voice Nobleza Pilar, voice

Leonid Rabinovich, music education

Errol Rackipov, jazz vibes

Kathryn Rhyne, voice

Hugo Rodriguez, voice John Sadak, clarinet

Henry Skolnick, bassoon/chamber

Angela Space, saxophone Eric Swanson, ciassical guitar Leo Walz, music education Jacqueline Yost, organ

Master of Music

The FIU School of Music offers an M.M. degree with specialization in the following areas: music composition, jazz studies, applied (winds/percussion, strings, voice, piano, piano accompanying), and conducting (choral, orchestral, wind) and performing arts production. For more information please contact the FIU School of Music.

Admissions Requirements

All students entering the graduate programs at the School of Music must possess an undergraduate Bachelor of Music degree from an accredited institution or the equivalent with a 3.0 GPA in the last 60 credits of study. The only exception to this requirement is found in the Performing Arts Production area where students with undergraduate Bachelors degrees in other related areas may be accepted. In addition, students entering the MS in Music Education must also have teacher certification in music.

An applicant who feels the earned GPA is not indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination which will be taken into consideration by the admission committee in its evaluation of the application.

To enter the School of Music all students must pass an audition and/or interview depending upon the area. The following is a breakdown of the requirements by areas:

- Wind/Percussion Performance: audition on instrument (an interview when feasible) - recordings acceptable
- · String/Guitar Performance: audition on instrument (and interview when feasible) - recordings acceptable
- Keyboard/Organ Performance: audition on instrument (and interview when feasible) recordings acceptable
- · Vocal Performance: audition on voice (and interview when feasible) - recordings acceptable
- Conducting (choral, wind. orchestral): conducting audition (and interview when feasible) video acceptable

140 College of Arts and Sciences	3
Jazz: audition on instrument (and	
interview when feasible) -	each)
recordings acceptable	Chamber Music (2 semesters - 1 credit
Composition: review of portfolio	
of scores (and interview when	
feasible)	lessons and recital during last semester)
Performing Arts Production: inter view and spiral	Analytical Techniques 3
view required	Mark and I Street, and a
 Music Education: audition or instrument or conducting audition 	
and interview required	each)
Music Technology: interview	Craduata Musia Flasticas 11
required	Piano Accompanying (36 credit hours)
	Applied Piano (3 semesters - 2 credits
Required Areas	anch)
Music Theory (Analytical Technique	
course required in all areas except jazz	Vocal Accompanying
and performing arts production)	Chamber Music (2 semesters - 1 credit
"Music History/Literature"	each)
*Ensembles/applied/conducting The above eight credits are included in	Thesis/Recital (includes private
the 36 credits required for each area o	
concentration.	semester)
A placement exam is required before	Analytical Techniques
students are allowed into these courses	Reyboard Literature
Remedial work may be required before	Italian Diction
these courses may be taken. A required	4 German Diction
History course is selected in	riench Diction
consultation with area advisor. Al	Large Ensemble (2 semesters - 1 credit
students, except jazz majors, must take	eacn)
Analytical Techniques as the required	d Graduate Music Electives
theory course.	Applied Woodwinds, Brass,
Requirements for jazz majors are in	Percussion (36 credit hours)
the jazz area.	Applied Instruction (3 semesters - 2
"A jazz placements exam is required	
Analytical Techniques is not required	Chamber Music (2 semesters - 1 credit
for jazz majors.	each)
Areas of Concentration	Thesis/Recital (includes private lessons and recital during last
I. Composition (36 credit hours)	semester)
Composition (3 semesters - 2 credits	Symphonic Literature or Wind
each)	6 Literature 3
Composers Forum/Workshop (4	Analytical Techniques
semesters 0 credits each)	U Elective Ensembles (orchestra/ wind
Electronic Music (2 semesters pending	ensemble) (6 ensembles - 1 credit each)
placement)	6 Graduate Music Electives 10
Analytical Techniques	Applied Strings (36 credit hours)
Theory Elective: (3 courses to be	Applied Strings (3 semesters - 2 credits
selected from: Comprehensive Theory,	each)
Special Topics Seminar, Set Theory,	Chamber Music Elective (4 semesters -
Schenkerian Analysis, Experimental	1 credit each)
Arts, Strict Composition Modal Counterpoint, Advanced Orchestration	Thesis/Recital (includes private
(3 credits each)	9 lessons and recital during last
Graduate Music Electives	2 semester)
Music History/Literature Elective	3 Symphonic Literature
Thesis/Recital (includes private	Analytical Techniques
lessons and 45 minute recital of	Orchestra (4 semesters - 1 credit each)
student's compositions during last	Music History/Literature Elective
semester)	6 Graduate Music Electives
MUH 5xxx Bibliography	1 Applied Voice (36 credit hours)
II. Performance - Piano,	Applied Voice (3 semesters - 2 credits
Applied Piano (36 credit hours)	each)
Applied Piano (3 semesters - 2 credits	Opera Workshop (3 semesters, 1 credit
each)	6 each)
•	

	Oradanie Calaro	-
edit	Elective Ensembles (4 semesters - 1	
2	credit each)	4
redit	Vocal Pedagogy I & Il	4
2	Opera Literature Vocal Literature	3
	Analytical Techniques	3
6	Graduate Music Electives	8
3	Thesis/Recital (includes private	•
3	lessons and recital during last	
redit	semester)	6
2	III. Conducting	
12	Choral (conducting) (36 credit hours	s)
hours)	Analytical Techniques	3
edits	Choral Literature	3
6	Graduate Choral Conducting (3	_
2	semesters - 2 credits each)	6
2	Conducting Seminar/Score Reading (4	4
redit 2	semesters - 1 credit each)	4
2	Thesis/Recital (includes private conducting and recital during last	
	semester)	6
6	Music History/Literature Electives	6
3	Elective Ensembles (Choirs, 4	٠
3	semesters - 1 credit each)	4
1	Graduate Music Electives	4
1	Instrumental (conducting)	
1	(36 credit hours)	
redit	Analytical Techniques	3
2	Wind Literature	3
7	Graduate Wind Conducting (3	
	semesters - 2 credits each)	6
	Conducting Seminar/Score Reading (4	
2	semesters - 1 credit hour each	4
6	Thesis/Recital (includes private	
redit	conducting and recital during last	,
2	semester)	6 6
	Music History/Literature Electives Elective Ensembles (4 semesters - 1	U
6	credit each)	4
·	Graduate Music Electives	4
3		
3	Orchestral (conducting) (36 semester hours)	
nd	Analytical Techniques	3
each)6	Orchestral Literature	3
10	Graduate Orchestral Conducting (3	
)	semesters - 2 credits each)	6
redits	Conducting Seminar/Score Reading (4	
6	semesters - 1 credit each)	4
sters -	Thesis/Recital (includes private	
4	conducting and recital during last	_
	semester)	6
6	Music History/Literature Electives	6
3	Elective Ensembles (4 semesters – 1 credit each)	4
3	Graduate Music Electives	4
ach)		,
3	IV. Jazz Performance (36 credit	
7	hours) Applied Music (major instrument) (3	
	semesters - 2 credits each)	6
edits	Studio Jazz Band (4 semesters - 1	,
6	credit each)	4
redit	Graduate Jazz Combo (2 semesters -	
3	credit each)	2

Graduate Catalog						
	Piano (not required of					
Jazz Piano principals)						
Business of Music 1						
Advanced Jazz Techniques I and II						
Advanced Jazz Rehearsal Techniques						
Jazz Pedagogy Jazz History: The Innovators						
	g/Composition Elective,	-				
	and, Arr for Combo,					
	Comp (students may take					
4 semesters of these courses in lieu of 8 hours of applied music)						
8 hours of applied music) 2 All students must take Jazz						
arranging/composing 3						
Thesis/Recital (includes private						
	cital during last	6				
semester)						
Music Technology Elective (from						
	Electronic Music I-III) 2 The FIU School of Music offers a					
	ence in Music Education.					
V. Performin	g Arts Production					
(39 credit ho	urs)					
MUS 5715	Performing Arts					
) (TIO 6806	Production I	2				
MUS 5725 TPA 5025	Live Music Operations I Performance Lighting	2				
MUS 5655	Expanding Artistic	4				
1.100 5055	Expression	2				
MUS 5795	Music Production Lab	1				
MUS 5726	Live Music					
	Operations II	3				
MUS 5512	Sound Reinforcement	2				
CGS 5993	Computer Literacy for Performing Arts					
	Production	3				
MUS 5796	Music Production Lab I	I 1				
MUS 5705	Advanced Business of					
	Music*	3				
TPA 5213	Performing Arts	2				
MUS 5906	Technology Thesis	3				
MUS 5797	Music Production	-				
	Lab III	1				
MUS 5905	Performing Arts					
Sanage t-t-	Internship	9				
	MUM 4301 or equivalent	11				
Music Edu						
Degree ho	urs: (36)					
	Education (9)					
EDF 6608	Social, Philosophical					
	and Historical					
	Foundations of Education	3				
EDF 6211	Psychological	J				
	Foundations of					
	Education	3				
EDF 5481	Foundations of					
	Educational Research	3				
Music Educa		2				
MUE 6345 MUE 6938	Methodology of Music Seminar in Music	3				
WIOL 0938	Education	3				

MUE 6815	Psychological		
•	Foundations of Music		
	Behavior	3	
MUE 6785	Research in Music		
	Education	3	
Music Cours	ses (15)		
Music Literature			
(Chosen wit	h advisor approval)		
Music Education Thesis			
Cognate Area			

Course Description

Definition of Prefixes HUM-Humanities; MUC-

HUM-Humanities; MUC-Music:
Composition; MUE-Music: Education;
MUG-Music: Conducting; MUHMusic: History/Musicology; MULMusic: Literature; MUM-Music:
Commercial; MUN-Music: Ensembles;
MUS-Music; MUT-Music: Theory;
MVB-Applied Music/Brass; MVKApplied Music/Brass; MVVApplied Music/Jazz; MVP-Applied
Music/Percussion; MVS-Applied
Music/Strings; MVV-Applied
Music/Voice; MVW-Applied
Music/Voice; MVW-Applied
Music/Woodwinds.

MUC 5406 Electronic Music IV (2). An advanced course in computer music providing students hands-on experience with recently developed hardware and software for the creation of music. Prerequisite: MUC 4400.

MUC 5407 Electronic Music V (2). Students develop new hardware and/or software for uses related to musical composition. Prerequisite: MUC 5406.

MUC 5635 Computer Music Seminar I (3). Introduces students to the historical contributions of computer music composers and engineers. Prerequisites: MUC 6305, MUC 6306. Corequisite: MUC 6405.

MUC 5636 Computer Music Seminar II (3). Introduces students to the compositional procedures used by computer music composers. Prerequisites: MUC 6305, MUC 6306, MUC 6405. Corequisite: MUC 5406.

MUC 5637 Computer Music Seminar III (3). Introduces students to the research technologies for making interactive sound projects including installations and exhibits. Pererequisites: MUC 6305, MUC 6306, MUC 6405, MUC 5406.

MUC 5935 Composition Forum (0). Student composers present their work for critique by faculty and topics relevant to composition are presented by faculty and guests. Prerequisite: Admission into the graduate composition program.

MUC 6251 Graduate Music Composition (1-3). The writing of evolved musical compositions with regard to each student's strengths and aesthetic development. Graduate standing in Music Education and or permission of the instructor.

MUC 6305 Electronic Music Lab I

(2). Exploration of the electronic medium including the history of electronic music, digital studio techniques, analog studio techniques, digital synthesis and analog synthesis. Prerequisites: MUC 1342 or Permission of the instructor.

MUC 6306 Electronic Music Lab II
(2). Continuation of Electronic Music
Lab I with an emphasis on advanced
MIDI applications including sampling,
digital sequencing, digital signal
processing and interactive MIDI
software. Includes one large composition project. Prerequisite: MUC 6401.

MUC 6405 Electronic Music Lab III
(2). Special projects in advanced electronic music programming environments including Csound, MAX, Interactor, HMSL and CHANT. Includes one large composition project. Can be repeated 4 times. Prerequisite: MUC 6402.

MUE 5485 Marching Band Techniques (3). A study of show design and concepts; marching band management procedures and organizational including booster organizations, inventory, handbooks, grading techniques. procedures. rehearsal Prerequisite: Permission of Instructor.

MUE 5921 Choral Conducting Workshop (3). The study of various topics related to choral literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5922 String Workshop (3). The study of various topics related to string literature, conducting and techniques. Perrequisite: Permission of the instructor.

MUE 5923 Instrumental Conducting Workshop (3). The study of various topics related to instrumental ensemble literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5924 Jazz Workshop (3). The study of various topics related to jazz literature, conducting and techniques.

Prerequisite: Permission of the instructor.

MUE 5928 Workshop in Music (3). Applications of materials and techniques in music in a laboratory or field setting.

MUE 6971 Thesis in Music Education (I-3). Research and paper for Masters Candidates in Music Education. Prerequisites: MUE 6785 and permission of Graduate Advisor in Music Education.

MUG 5105 Advanced Conducting Techniques (1). An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required.

MUG 5205 Graduate Applied Choral Conducting (2). Advanced study of choral conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5307 Graduate Applied Instrumental Conducting (2). Advanced study of wind conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5935 Conducting Seminar (I). An examination of the principle issues of conducting, emphasizing score reading and study, rehearsal, interpretation, and contemporary techniques. Prerequisite: Graduate standing and/or permission of the instructor.

MUH 5025 History of Popular Music In the U.S. (3). Overview of Afro-American and Euro-American popular music and its historical development. Examination of musical style and social context in lecture-discussion format with film and video.

MUH 5057 Music of the World (3). Survey of folk, popular and classical musical traditions from around the world. Examination of musical style and social context with film and performance demonstrations.

MUH 5065 Latino Music in the United States (3). Survey of Latin American musical traditions brought through immigration. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations. MUH 5066 Music of Mexico and Central America (3). A survey of folk, popular and classical musical traditions in the region. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5067 Music of the Caribbean (3). Survey of folk, popular and classical musical traditions and their ongoing connection with Caribbean populations in the U.S. Class includes film and performance demonstrations.

MUH 5375 Twentieth Century Music: 'New Dimensions' (3). A technical study of music since 1900. Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis. Prerequisite: Graduate standing in Music or permission of instructor.

MUH 5546 Music of the Americas (3). An exporation of the folk, popular, and art music of Latin America.

MUH 5575 Survey of Asian Music (3). Examines the major Asian musical traditions within the cultural framework of history, arts and traditions.

MUH 5685 History of Music Seminar I (1-3). Examination of music history achievements from Antiquity, Medieval, Renaissance and Baroque periods. Music structures and composers are examined throughout these periods, works and styles. Prerequisite: Graduate standing.

MUH 5686 History of Music Seminar II (1-3). Examination of music history achievements from Pre-Classical, Classical, Romantic to the 20th century. Evolution of music through the works of major composer's individual styles.

MUH 5815 Jazz History: The Innovators (3). The work of four artists whose innovations have profoundly defined the jazz idiom from its beginning through the present day-Duke Ellington, Charlie Parker, Miles Davis, and John Coltrane.

MUL 5405 Keyboard Literature (3). Survey of keyboard literature from antiquity through the twentieth century. Emphasis on the evolving role of the keyboard in music history.

MUL 5456 Wind Instrument Literature (3). The history and development of Wind Instrument Literature from ca. 1650 to the present day. Music appropriate for all levels of instruction from middle school through college level is included. Prerequisite: Advanced/graduate standing.

MUL 5495 Survey of Organ Literature (3). Survey of organ literature, history, performance practice and organ design. Includes historic sound recordings and in-class performance. Prerequisites: Permission of Instructor.

MUL 5505 Symphonic Literature (3). The study of the symphony and the symphonic tone poem from its origin in the Baroque period to the twentieth century.

Prerequisite: Graduate standing.

MUL 5607 Vocal Literature 1 (2). A survey of solo vocal literature from the 17th century to the late 18th century. Emphasis will be placed on a discussion of ornamentation and performance-practice and comparisons of editions.

MUL 5626 Vocal Literature IV (2). Twentieth-century art song. Emphasis will be placed on the rise of the nationalist schools, the development of atonalism and other modern schools of thought.

MUL 5645 Choral Literature (3) A survey of sacred and secular choral literature from the Middle Ages to the present. Emphasis on stylistic analysis and performance practice for each style period. Includes score study, aural analysis of recorded performances and in-class performances. Perequisite: Permission of the instructor.

MUL 5671 Opera Literature (3). A chronological survey of operatic literature from the 17th century to the present day. Emphasis placed on the historical milieu in which the operatic form evolved through the ages.

MUL 5XXX Vocal Literature II (2). The German Lied and it's poetry. Emphasis will be placed on a study of the poets and their poetry, important facts of the composers' lives and times and other musical and cultural developments.

MUL 5XXX Vocal Literature III (2). The French Melodie and it's poetry. Emphasis will be placed on a study of the poets and their poetry, their styles and schools, the composers' lives and times and other musical and cultural developments.

MUM 5705 Advanced Business of Music (3). Topics include strategic

planning, employee development, and decision making. Also includes a study of publishing, collection agencies, creative unions, and contracts with composers and publishers. Prerequiste: MUM 4301 and permission of graduate advisor.

MUM 5715 Performing Arts Production 1 (2). Focus on the various aspects of performing arts production. Students attend performances of every possible genre of performing arts and critique the production and the venue. Prerequisite: Permission of graduate advisor.

MUM 5725 Live Music Operations I (2). How promoters and producers project a profit margin and the ability to oversee a profit; considering overhead, scheduling, accommodations, concessions, sound and light. Prerequisite: Permission of the graduate advisor.

MUM 5726 Live Music Operations II (3). Continuation of MUM 5725. Live Music Operations 1. Emphasis on promoters', producers', and managers' ability to project a profit margin. An on-campus production is required as the final project. Prerequisite: MUM 5725 and permission of the graduate advisor.

MUM 5795 Music Production Laboratory 1 (1). Students are assigned to work in the production of 10-15 individual concert productions. The productions are varied and provide the students the opportunity to put in practice work learned in the classroom. Prerequisite: Permission of the graduate advisor.

MUM 5796 Music Production Laboratory II (1). A continuation of Music Production Lab I. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisite: MUM 5795 and permission of the graduate advisor.

MUM 5797 Music Production Laboratory III (1). A continuation of Music Production Lab II. Students are assigned to work in the production of 10-15 individual concert productions. Prerequsite: MUM 5796 permission of the graduate advisor.

MUM 5946 Performance Arts Internship (9). Interns assist and/or observe in all job functions and duties at an entertainment venue. Areas include: production management: design services; technical production;

talent booking and casting; and creative development. Prerequisite: Permission of graduate advisor.

MUS 5345 MIDI Technology (2). Introduction to MIDI technology including sequencing, notation, patch editing and a variety of other applications. Prerequisite: Graduate standing.

MUS 5512 Sound Reinforcement (2). Exploration of live music on location, dealing with commonly encountered acoustical problems and how to overcome them. Prerequisite: Permission of the graduate advisor.

MUS 5655 Expanding Artisite Expression (2). Focuses on expanding the horizons of the artistic vision of the student. Accomplished through a series of projects. Prerequisite: Permission of the graduate advisor.

MUS 5711 Music Bibliography (1). Library research methods materials; documentation of research results in bibliographic style. Develops critical thinking and evaluative skills regarding sources of information, print and online. Prerequisite: Graduate standing at the School of Music.

MUS 5906 Thesis/Recital (1-6). For students working on a thesis or recital for MM in Music. To be completed under the supervision of a faculty member. Prerequisite: Graduate student.

MUS 5971 Thesis (1-6). Research and/or performances towards completion of master's thesis work. Prerequisite: Permission of graduate area advisor.

MUT 5051 Graduate Theory Survey (1-3). Analytical, theoretical and aural skills required for successful graduate studies in music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5152 Comprehensive Musical Systems (3). Examination of various comprehensive theoretical systems utilized in the analysis of music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5316 Advanced Orchestration (3). Examination of orchestrational techniques utilized by composers from the Baroque era through current times. Prerequisite: Graduate standing in the School of Music or permission of the instructor

MUT 5355 Advanced Jazz Arranging and Composition (3). Scores and recordings of various sized jazz ensembles are studied for technique and style. Student's compositions and arrangements are performed. Topics include: forms, voicing techniques, instrumentation-live performance vs. recording session. Prcrequisite: MUT 4353: MUT 4663: MUT 4664.

MUT 5381 Arranging (3). A course in practical arranging for the public school teacher, including choral, band, and popular arranging. Prerequisites: MUT 2117 and MUT 2227.

MUT 5411 Modal Counterpoint (3). Develop skills necessary to write in the Renaissance style and to analyze the masterworks of Palestrina, Lassus, Victoria, and others. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5486 Advanced Jazz Rehearsal Techniques (2). Study and practical application of complete preparation, programming, and rehearshing of small and large jazz ensembles. Students study scores and recordings of various jazz styles and rehearse school's ensembles. Prerequisite: MUN 4784; MUT 4643: MUT 4663: MUT 4664.

MUT 5585 Musical Styles Through Strict Composition (3). This course is designed to develop basic compositional skills for writing works in all forms. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5627 Schenkerian Analysis (3). Advanced studies in Schenkerian analysis of tonal music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5628 Atonal Analysis (3). Advanced studies in set theory and serial techniques of twentieth-century music. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MUT 5629 Analytical Techniques (3). Examination and practice of various techniques utilized in the analysis of art music from the common practice period through the 20th century. Prerequisite: Placement exam or Permission of the instructor.

5646 Advanced Techniques 1 (2). A comprehensive, theoretical study of topics related to jazz performance. Includes the nature of improvisation, advanced jazz harmony, theory of jazz improvisation, transcribing and analyzing solos of jazz masters. Prerequisite: MUT 4643.

MUT 5647 Advanced Jazz Techniques II (2). A continuing study of topics related to jazz performance. Includes analyzing solos of jazz masters, development of repertoire, style, and aesthetic concepts. Pererequisite: Advanced Jazz Techniques I.

MUT 5746 Jazz Pedagogy (2). Materials, techniques, and philosophies related to teaching jazz. Includes preparation of courses, course outline and syllabi, lesson plans, lectures. Texts and other resources such as videos, recordings, periodicals, are examined. Prerequisite: MUT 4663; MUT 5355.

MUT 5930 Special Topics (3). Examination of composers, compositional schools, or other areas of specialization and/or interest to the theory/composition faculty. Prerequisite: Graduate standing in the School of Music or Permission of the instructor.

MVJ 5150 Jazz Piano Techniques (I). Performance of basic jazz standards. Includes basic techniques of the instrument, chord voicing, comping, lead sheet realization for nonpianists. Prerequisite: Graduate standing or permission of the instructor.

MVJ 5350 Principle Applied Jazz: Keyboard (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5354 Principle Applied Jazz:
Bass (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz. Prerequisite: MVJ 4344.

MVJ 5355 Principle Applied Jazz: Flute (2) Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5356 Principle Applied Jazz: Saxophone (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique. eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5357 Principle Applied Jazz: Trumpet (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5358 Principle Applied Jazz: Trombone (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5359 Principle Applied Jazz: Percussion (2). Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5453 Principle Applied Jazz: Gultar (2).Individual advanced instruction on major instrument. An indepth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz. Prerequisite: MVJ 4343.

MVJ 5456 Major Applied Jazz Saxophone (1-2). Individual instruction on major instrument. An indepth study of overall instrumental technique, styles, and other performance practices particularly relevant to jazz. Prerequisites:

MVJ 5XXX Secondary Jazz Drums
(1). Individual instruction in applied
jazz music on drums. Prerequisites:
Preceding course in sequence or
permission of the instructor.

MVJ 5XXX Principal Jazz Acoustic Bass (2). Individual instruction in applied music on jazz acoustic bass as a principal instrument. Prerequisite: Music majors only.

MVJ 5XXX Principal Jazz Drums (2). Individual instruction in applied music on jazz drums at a principal level. Prerequisite: Music majors only.

MVJ 5XXX Major Jazz Saxophone (2). Individual instruction in applied

music on jazz saxophone at a major level. Prerequisite: Music majors only.

MVJ 5XXX Major Jazz Trombone (2). Individual instruction in applied music on jazz trombone at a major level. Prerequisite: Music majors only.

MVJ 5XXX Major Jazz Trumpet (2). Individual instruction in applied music on jazz trumpet at a major level. Prerequisite: Music majors only.

MVJ 5XXX Major Jazz Drums (2). Individual instruction in applied music on jazz drums at a major level. Prerequisite: Music majors only.

MVJ 5XXX Major Jazz Acoustic Bass (2). Individual instruction in applied music on jazz acoustic bass at a major level. Prerequisite: Music majors only.

MVK 5651 Piano Pedagogy (2). Survey of current piano teaching methods.

MVV 5651 Vocal Pedagogy (3). A survey of the literature of teaching methods for the mature voice derived from historical and modern sources. Prerequisite: Permission of the instructor. Corequisites: Applied voice lesson

MVV 5652 Graduate Vocal Pedagogy II (2). Practical application of the principles of vocal technique in the studio. Emphasis will be placed on the psychological factors which apply to singing and the teaching of singing. Prerequisite: Graduate Vocal Pedagogy I

MVV 5XXX Graduate Vocal Pedagogy I (2). An introduction to the history and development of vocal pedagogy for the graduate voice major. Emphasis will be placed on a study of the anatomy and acoustics of the human voice.

Physics

Stephan L. Mintz. Professor and Chairperson

Werner Boeglin, Associate Professor Richard A. Bone, Professor Yesim Darici, Associate Professor

Rudolf Fiebig, Professor Bernard Gerstman, Professor

Kenneth Hardy, Professor Laird H. Kramer, Associate Professor

Pete C. Markowitz, Associate Professor

Oren Maxwell, Professor Brian A. Raue, Associate Professor Joerg Reinhold, Assistant Professor Misak Sargsian, Assistant Professor John W. Sheldon, Professor

Caroline E. Simpson, Associate Professor

Walter Van Hamme, Professor Xuewen Wang, Associate Professor James R. Webb, Associate Professor Jiandi Zhang, Assistant Professor

Master of Science in Physics

Yifu Zhu, Associate Professor

The Master of Science in Physics is a 45 semester hour program consisting of course work 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 course work in Physics.

Graduate Admission Requirements

For admission to the graduate programs, a Bachelor's degree in physics is required with a minimum undergraduate GPA of 3.0. The GRE is required. The minimum acceptable score is 1000 points for verbal and quantitative combined. The GRE advanced is recommended. Students from a non-English speaking countries are required to demonstrate proficiency in English via the TOEFL exam. Minimum acceptable score for admission is 550.

Required Courses:		
PHY 5115	Mathematical Physics I	3
PHY 5116	Mathematical	
	Physics II	3
PHY 5240	Advanced Classical	
	Mechanics	3
PHY 5346	Advanced	
	Electromagnetic	
	Theory l	3
PHY 5347	Advanced	
	Electromagnetic	
	Theory II	3

PHY 6645	Advanced Quantum	
•	Mechanics 1	3
PHY 6646	Advanced Quantum	
	Mechanics II	3
PHY 6524	Statistical Physics	3
PHY 6935	Graduate Research	
	Seminar	4-6

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

Doctor of Philosophy in Physics

The Doctor of Philosophy in Physics program requires 90 credit hours at the graduate level, including a minimum of 24 credit hours of dissertation research. A maximum of 36 credits may be transferred from another graduate program with the approval of the Graduate Committee

Graduate Admission Requirements

For admission to the graduate programs, a Bachelor's degree in physics is required with a minimum undergraduate GPA of 3.0. The GRE is required. The minimum acceptable score is 1000 points for verbal and quantitative combined. The GRE advanced is recommended. Students from a non-English speaking countries are required to demonstrate proficiency in English via the TOEFL exam. acceptable score Minimum admission is 550.

Required Courses:

- 1. All Required Courses for the Master of Science in Physcis program listed above.
- 2. Four additional graduate level (5000 or higher) courses.

All doctoral candidates must take a Ph.D. comprehensive exam. This exam is designed to test general knowledge of physics at the advanced undergraduate and first-year graduate level and must be passed not later than the beginning of the third year enrolled in the program. Within two years of entering the program, students must submit to the Graduate Committee their choices of research and advisor. Course work and research programs shall be planned with the advice and approval of the advisor. After passing the comprehensive exam and prior to or during the first semester of the fourth year enrolled in the program, a student must also take a candidacy exam which tests the ability to conduct research in a particular field, as well as the ability to present the results of that research in an organized and coherent manner.

Course Descriptions

Definition of Prefixes AST-Astronomy: PHS-

Physics/Specialized: PHY-Physics: PHZ-Physics; PSC-Physical Sciences; ENU-Nuclear Engineering. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

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

AST 5405 Extragalactic Astrophysics (3). Topics in extragalactic astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on galactic structure and evolution, quasars and cosmology. Prerequisites: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent. (F or S)

AST 5507 Celestial Mechanics (3). Principles of classical Newtonian mechanics applied to the motions of planets, satellites, and interplanetary space probes. Prerequisites: PHY 4222 or equivalent. (F or S)

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

PHY 5116 Mathematical Physics II (3). Additional solution methods in mathematical physics: Perturbation methods, Laplace's and Poisson's Equations, waves, special functions, vector fields, vector waves. Prerequisite: PHY 5115. (S)

PHV 5140 Atomic Particle Interactions and Detection (3). Preparation for research utilizing particle detectors. Covers particle interactions with matter in scintillation, ionization, and semiconductor detectors for changed particles, neutrons, and photons. Prerequisites: PHY 3124 or Permission of Instructor.

PHY 5141 Intermediate Physics I (3). Prepares advanced undergraduate and beginning graduate student research preparation in atomic, molecular, or optical physics. Topics may be adapted to students' research interests. Prerequisites: Permission of Instructor.

PHY 5142 Intermediate Modern
Physics II (3). Continuation of
advanced undergraduate and beginning
graduate student research preparation
in atomic, molecular, optical or nuclear
physics. Topics may be adapted to
students' research interests.
Prerequisite: Intermediate Modern
Physics I.

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

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

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electro-magnetism: Electrostatics, Green's function, Laplace's equation, multipole expansion, magneto-statics, Maxwell's equations, waves. Prerequisite: PHY 4324. (F)

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

PHY 5446 Laser Physics (3). Principles of lasers and laser applications, including atom-field interactions, stimulated emission and dipole oscillators, optical resonators and electromagnetic modes, semi-classical laser theory, and specific laser systems. Prerequisite: PHY 4605. (F or S)

PHY 5466 The Physics of Music (3).
Provides music technology majors a physical understanding of sound, sound generation and reproduction.
Concentrates mainly on physical principles and less on calculation.
Prerequisite: Permission of Instructor.

PHY 5667 Nonperturbative Quantum Field Theory (3). Euclidean QFT, renormalization group, local gauge symetry, lattice regularization, Wilson action, fermion fields, expansion schemes, numerical algorithms, hadron properties, recent developments. Prerequisites: PHY 4605.

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

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

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

PHY 5940 Physics Graduate Teaching Workshop (1). The teaching of physics laboratories. Includes practice of lab experiments, use and adjustment of lab equipment and explanation of departmental grading policy. Supplemented by outside lectures on university policies. (F)

PHY 6524 Statistical Physics (3). Fundamental principles of statistical mechanics; fluctuations, noise and irreversible thermodynamics; kinetic methods and transport theory. Perequisites: PHY 3503 and PHY 4222. (S)

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

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

PHY 6651 Quantum Scattering Theory 1 (3). The investigation of atomic and electronic scattering processes: Potential scattering, long range potentials, electronatom collisions. Prerequisite: PHY 6645.

PHY 6652 Quantum Scattering Theory II (3). The mathematical investigation of scattering processes: Auto-ionization, fast vs. slow collisions, Regge poles, S and T matrices. Prerequisite: PHY 6651.

PHY 6668 Relativistic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields, CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6646.

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

PHY 6675 Quantum Theory of Many Particle Systems I (3). An introduction to the physics of many particle systems: Second quantization, Fock spaces, Boson and Fermion symmetry, Gell-Mann-Low theorem, diagrammatic expansions, Goldstone theorem. Prerequisite: PHY 6646.

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

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

PHY 6936 Graduate Research (1-10). Research at the graduate level in theoretical or experimental physics under faculty supervision, repeatable. Perrequisites: Permission from supervising faculty.

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

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

PHY 7910 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in theoretical or experimental physics

under faculty supervision. Prerequisite: Permission of the instructor. (F, S)

PHY 7981 Ph.D. Dissertation (1-12). Original research work towards completion of dissertation and presentation and defense of dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

PHZ 5130 Theoretical Treatment of Experimental Data (3). Statistical analysis of physical processes and statistical tests, with particular emphasis on instrumentation-related problems. Mathematical modeling and computer simulation. Prerequisite: Undergraduate statistics course, or equivalent, or Permission of the instructor.

PHZ 5156 Computational Physics I (3). Physical systems by means of computer simulation. Monte Carlo. molecular dynamics, percolation, random systems, chaos, criticality, guage fields. Prerequisite: PHY 5115 and PHY 5116.

PHZ 5157C Computational Physics II (3). Advanced computer simulation methods of physical systems. Application in chaos, nonlinear and random systems, criticality, field theory and practices. Prerequisites: PHZ 5156. Corequisites: PHY 5115 and PHY 5116.

PHZ 5234 Atomic and Molecular Collision Phenomena (3), Investigation of atomic and molecular collision phenomena: Kinetic theory, elastic scattering, inelastic scattering, excitation and ionization, heavy particle collisions. Prerequisites: PHY 4605 and PHY 4222. (F or S)

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

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

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

PHZ 5506 Plasma Physics (3). An introduction to plasma fundamentals, the Boltzmann equation, the hydrodynamic equations, orbit theory, the interaction of electromagnetic waves with plasmas, the pinch effect and instabilities. Prerequisite: PHY 3049. (F or S)

PHZ 5606 Special Relativity (3). A detailed study of special relativity: Lorentz transformations, relativistic electrodynamics. Prerequisite: PHY 3124.

PHZ 5607 General Relativity (3). General relativity using differential geometry and tensor analysis. Topics include Einstein's field equations and their solutions, applications and observational tests. Black Holes and cosmology are also discussed. Prerequisite: PHY 4222 and PHY 4605.

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

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 6354 Introduction to Particle Physics (3). An introduction to modern particle theory: Elementary field theory, symmetries, quantum electrodynamics, quark-parton model, quantum chromodynamics, Weinberg-Salam model, Prerequisite: PHY 6646.

PHZ 6355 High Energy Hadronic Physics (3). Physics of quark-gluon structure of strongly interacting matter. Introduces the basic methods of high energy hadronic and nuclear physics, the quark model of hadrons, and the partonic model of deep-inelastic scattering. Prerequisite: Graduate standing.

PHZ 6359 Quantum Gauge Field Theories (3). Basics in field quantization, nonabelian symmetries. the standard SU(3)xSU(2)xU(1) model. non-perturbative features, lattice regularization and numerical simulation. Prerequisites: PHY 4605, PHY 5346. (F or S)

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

PHZ 6437C Surface Physics (3). An introduction to theoretical and experimental techniques AES (Auger Electron Spectroscopy), LEED (Low Energy Electron Diffraction), XPS (X-ray Photoelectron Spectroscopy), AFM (Atomic Force Microscopy) and STM (Scanning Tunneling Microscopy). Prerequisite: PHZ 5405 or permission of the instructor.

Political Science

Nicol Rae, Professor and Chairperson Astrid Arraras, Assistant Professor Colton Campbell, Associate Professor Ronald Cox, Associate Professor Eduardo Gamarra, Professor and Director, Latin American and

Carribean Center Ivelaw Griffith, Professor and Dean, Honors College

Kevin Hill, Associate Professor Antonio Jorge, Professor Joseph Jupille, Assistant Professor Jeanne Kates, Instructor Mary Beth Melchior, Assistant

Professor Dario Moreno, Associate Professor and Director, Metropolitan Center

Paul Mullen, Assistant Professor Brian Nelson, Associate Professor Richard Olson, Professor

Timothy Power, Associate Professor. Graduate Program Director Mark Rosenberg, Professor and

Rebecca Salokar, Associate Professor John Stack, Professor and Director. Institute for Public Policy and Citizenship Studies

Judith H. Stiehm, Professor Christopher Warren, Associate

Professor, and Head Undergraduate Advisor

The Master of Arts and the Doctor of Philosophy Degrees in Political Science at Florida International University are designed to provide students with a comprehensive knowledge of political science. The graduate program in political science builds on faculty strengths and distinguishes itself by stressing a comparative approach to the study of politics. The program is designed to equip its graduates with a solid foundation in the basic theories and methods of political science, in conjunction with an in-depth education in selected traditional subfields. The program has a particular focus on Comparative Politics and American Politics.

Admission Procedures

Applicants seeking admission for the Fall semester should have application materials submitted by March 15th. Incomplete applications cannot be considered by the Graduate Admissions Committee. Admission decisions will be announced no later than April 15th. Applicants must also send copies of the following materials directly to the

Department's Admissions Committee at the following address: Department of Political Science, DM 480, University Park Campus, Miami, Florida 33199. Telephone: (305) 348-2226; Fax: (305) 348-3765.

The following application materials must be submitted to the University's Admissions Office.

- 1. A completed FIU Graduate Application form with requisite application fees.
- 2. Official transcripts of all university-level work, including undergraduate or professional school courses.
- 3. An official report of Graduate Record Examination (GRE) scores.
- 4. All foreign students whose native language is not English must submit official reports of Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE).

Applicants must send the following materials directly to the department's admissions committee.

- 1. Two letters of reference from former instructors who are able to evaluate the applicant's potential for graduate study. Applicants should ensure that each letter is signed by the author along the sealed flap of the envelope.
- 2. A personal statement of intent, including a discussion of education and career objectives and the specific relationship of a Master's or Doctoral degree in political science to the achievement of those objectives. The personal statement should not exceed three typewritten, double-spaced pages.

Master of Arts

Admission Requirements

Admission to the Master's program is competitive. Meeting the minimum requirements does not guarantee acceptance.

The minimum requirements for admission to the M.A. program include:

- 1. A baccalaureate degree from an accredited college or university.
- 2. A minimum 3.2 grade point average (on a 4.0 scale) during the last two years of a student's undergraduate program (students with graduate or professional course work will be evaluated individually).
- 3. A minimum combined score of 1000 on the verbal and quantitative sections of the GRE.
- 4. Foreign students whose native language is not English must have a

TOEFL (Test of English as a Foreign Language) score of 550 or higher.

Degree Requirements

The course of study for the M.A. in Political Science requires 30 credit hours. A final research project and research seminar are required components:

Required Courses (9 credits)

POS 5716	Foundations of Political	
	Science	3
POS 5706	Research Methodology	3
POS 6976	Research Seminar	3

C

1 05 0770	Research Settina	,
Core Cours	es (9 credits)	
Each student is required to take three of the following four core courses:		
POS 5045	Seminar in American	
	Politics	3
CPO 5091	Seminar in Comparative	
	Politics	3
INR 5007	Seminar in International	
	Politics	3
POT 5007	Seminar in Political	
	Theory	3

Electives (12 credits)

Students are required to take four elective courses. A student may take a maximum of six credit hours in a cognate field or in an approved cognate program.

Doctor of Philosophy

Admission Requirements

Admission to the Ph.D. program is competitive. Meeting minimum requirements does not guarantee accep-

The minimum requirements for admission to the Ph.D. program include:

- 1. A baccalaureate degree from an accredited college or university;
- 2. An undergraduate GPA of 3.2 and/or a graduate GPA of 3.25:
- 3. A minimum combined score of 1120 on the verbal and quantitative sections of the GRE. The GRE Political Science examination is not required.
- 4. Foreign students whose native language is not English must have a TOEFL (Test of English as a Foreign Language) score of 550 or higher.

Degree Requirements

The Ph.D. program requires a minimum 90 credit hours beyond the Bachelor's degree.

The Doctor of Philosophy in Political Science is conferred based on satisfactory completion of required course work, a demonstrated mastery of a broad field of knowledge, and successful completion and defense of the dissertation. The degree provides graduates with a solid foundation in the basic theories and methodologies of political science in conjunction with specialization in traditional sub-fields. Students will, in consultation with their faculty advisors, determine the contents of their course work. Students will specialize in three examination fields. Four of the possible fields are based on the traditional substantive areas of Political Science (American Politics. Comparative Politics, International Politics, and Political Theory). A fifth field (Area Studies) allows students to concentrate on either a regional area or substantive issue. Normally, all students will take 12 credit hours in disciplines outside the Political Science department.

Students' proposed programs must be approved by their advisors and the Graduate Studies Committee.

Required Courses (10 credits) POS 5702 Teaching Political Science

POS 5706	Research Methodology	3
POS 5716	Foundations of Politica	1
	Science	3
POS 6918	Seminar in Political	
	Science Methodology	3
Common Core Courses (12 credits)		
CPO 5091	Seminar in Comparative	
CPO 5091		
CPO 5091 INR 5007	Seminar in Comparative	e 3

Seminar in American

Seminar in Political

3

3

Theory Fields (24-45 credits in 3 fields):

Politics

Comparative Politics International Politics American Politics Political Theory

Language Requirement

POS 5045

POT 5007

The Political Science Ph.D. Program requires competency in one foreign language or demonstrated competency in computer and methodological techniques when considered more appropriate. Language competency must be demonstrated prior to taking the comprehensive examinations.

Comprehensive Examination

After satisfactory completion of course work, students will take comprehensive exams before starting work on the dissertation and being admitted to candidacy. The comprehensive exams will cover core courses and functional fields. They will be written and oral.

Dissertation (24-45 credits)

After passing the comprehensive exams, students are admitted to candidacy and enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the work, a public defense of the dissertation will be scheduled in accordance with university policy.

Financial Aid

The program has a limited number of graduate assistantships available for qualified students. Assistantships are awarded on a competitive basis only to full-time students. Students applying for full-time status are considered automatically for these awards. Assistantships are renewable each year for up to four years based on satisfactory progress and performance.

The University also grants 'need based' financial aid. For information on these awards call the Financial Aid Office at (305) 348-2431.

Course Descriptions

Definition of Prefixes

CPO-Comparative Politics; INR-International Relations; POS-Political Science: POT-Political Theory; PUP-Public Policy.

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

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

CPO 5325 Politics of the Caribbean (3). Examines the structural and institutional aspects of the politics of the Caribbean in both domestic and international contexts. Prerequisite: Graduate standing.

CPO 5934 Topics In Comparative Politics (3). A rigorous examination of a topic in comparative politics. Subject

matter varies according to instructor. Topic will be announced in advance.

CPO 5936 Seminar in Comparative Political Parties (3). Students read and discuss major works on parties by conservative, liberal, and Marxist authors.

CPO 6062 Seminar in Comparative Judicial Politics (3). An examination of judicial structures, legal traditions. judicial behavior and judicial power cross culturally.

CPO 6066 Comparative Constitutional Law (3). An examination of constitutionalism in both established and developing democracies. Particular emphasis on the role of courts, judicial review and judicial remedies using doctrinal, contextual and theoretical analysis.

CPO 6084 War, Peace and the Military (3). Examines theories of the relationship between societies, governments and their militaries. Emphasis on relationship between militaries and a nation's experience with peace and participation in war. Prerequisite: Graduate standing.

CPO 6105 Politics of the European Union (3). Examines the development and operation of the world's most successful experiment in regional cooperation, the European Union (EU), including political economy, policy-making. institutions, and Prerequisites: Graduate Standing.

CPO 6106 Seminar on European Politics (3). Advanced discussion of major themes in European politics. Topics include corporatism, postdemocratization, and materialism, European integration.

CPO 6206 Seminar in African Politics (3). Studies the crisis of African development. Topics include colonialism, internal cleavages, and impact of the global economy.

CPO 6307 Seminar on South American Politics (3). Explores the realities and myths of the democratization experience of South America.

CPO 6350 Seminar in Brazilian Politics (3). The political development of Brazil, focusing on alternation between authoritarianism and democracy. Emphasis on clientelism, patrimonialism, civil-military relations, and political institutions.

CPO 6376 Seminar in Central American Politics (3). Central America's socio-political evolution. Attention is given to both the national and international politics of the region.

CPO 6407 Seminar in Politics of the Middle East (3). In depth analysis of comparative theoretical perspectives of political processes in the Middle East.

CPO 6771 Politics of Disaster (3).

Examines disaster and other extreme events as political system shocks.

Analyzes disasters as crises of values, legitimacy, and agenda control.

Evaluates policy alternatives in prevention, mitigation, and response.

Prerequisites: Graduate Standing.

INR 5007 Seminar in International Politics (3). An advanced graduate course designed to give students a specialized knowledge of the classics in international politics. The course traces the development of international politics from Thucydides to the present.

INR 5036 Politics of Globalization (3). Intensive examination of state and global institutions that have shaped the process of economic globalization. Topics include impact on sovereignty, human rights, labor and agenda-setting of large and small nation-states.

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5105 American Foreign Policy (3). Compares different perspectives in foreign policy analysis. Provides a comprehensive understanding of major issues in U.S. policy.

INR 5414 Topics in International Law (3). An intensive examination of the political dimensions of international law in the context of rapidly changing global political relations.

INR 5934 Topics in International Politics (3). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic to be announced in advance.

INR 6080 Seminar on Non-State Actors (3). Explores the nature of non-state actors in international politics, including cities, interest groups, multinationals, and individuals.

INR 6205 World Politics (3). This course provides graduate students with an understanding of the major conceptual approaches to world politics. It emphasizes the analysis of significant actors, institutions, and processes at work in the contemporary global system as well as possible future alternatives.

INR 6705 Seminar in International Political Economy (3). Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

INR 6936 Seminar in Inter-American Politics (3). Focus on U.S.-Latin American relations. Attempts to link the theoretical literature on U.S. foreign policy with empirical developments.

INR 6939 Seminar in International Law (3). Allows for specialized and topical offerings by regular and visiting faculty. Also permits experimental courses.

POS 5045 Seminar in American Politics (3). The advanced study of U.S. politics. Students read and discuss the major works and theories concerning American politics and government.

POS 5146 Seminar in Urban Politics (3). Examination of processes by which urban areas are governed. Emphasis is on conflicts over structures, power, policy and the politics of ethnicity and class

POS 5158 Topics in Politics (3). Subject matter varies according to instructor.

POS 5208 Seminar in Political Behavior (3). Analyzes the literature in political behavior. Special emphasis is on voting, socialization, attitudes, partisanship, campaigning, the media, and political participation in the developed democracies. Prerequisite: POS 5706.

POS 5447 Seminar in U.S. Political Parties (3). Students read and discuss the major works and theories on U.S. political parties.

POS 5638 Topics in Public Law (3). A rigorous examination of a topic in public law. Subject matter varies according to instructor. Topic will be announced in advance.

POS 5702 Teaching Political Science (1). Introduces graduate students to the pedagogical and practical aspects of teaching political science. Topics will include selecting books, writing a syllabus, lecturing, running discussion groups, and testing and grading. Covers professional ethics, and student rights and responsibilities.

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

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

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

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

POS 6072 Seminar in U.S. Political Economy (3). Examines core issues related to the U.S. political-economic system, and the challenge of business to democracy. Students study the major problems confronting communities in urban areas.

POS 6266 Community Power Theory (3). Studies the concept of power in the U.S. and classics of community power literature.

POS 6286 Judicial Research (3). Examination of the methodological

approaches used to study courts in a political context. Special attention to seminal works that focus on individual, small group and institutional behavior. and extra-legal influences.

POS 6415 Seminar on the U.S. Presidency (3). Examines the most important works on the U.S. Presidency, and the evolution of the office since 1789.

POS 6427 Seminar on the U.S. Congress (3). Discussion of the scholarly literature on Congress. Students analyze trends congressional power and possible reforms.

POS 6612 Seminar on U.S. Supreme Court (3). Seminar covers literature, both current and classic, on U.S. Supreme Court. Topics covered typically include the major paradigms, appointment, access, agenda setting, decision making and impact.

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

POS 6725 Formal Political Modeling (3). Introduces students to the foundations of public choice. Particular topics may include decision theory, social choice, spatial voting models, and game theory, amoung others.

POS 6918 Seminar in Political Science Research Methods (3). Examines the methods used to design, execute, and critique empirical research in political science, addressing a variety of methodological issues. Prerequisites: POS 5706 and POS 5716.

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

POS 6971 Thesis (1-6). Requires students to enroll for thesis or dissertation research for at least one credit hour every semester in which they are engaged in such research. Prerequisites: All other course work for the Master's.

POS 6976 Research Seminar (3). Required course for all MA candidates during completion of their major research project. Also required for second-year Ph.D. students. course guides student research while in progress. Prerequisite: POS 5706.

POS 7910 Pre-Dissertation Research (1-9). During the term in which students take Ph.D. comprehensive exams, this course enables them to concentrate on completion of their dissertation prospective. Prerequisite: Completion of all other Ph.D. coursework.

POS 7980 Ph.D. Dissertation (1-12). Supervised research and writing of an original research project. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

POT 5007 Seminar in Political Theory (3). An examination of writings from a diverse list of some of the major political theorists in the western tradition from antiquity to the present.

POT 5307 Feminist Political Theory (3). Examines feminist political theory in the second half of the twentieth century with the focus on the work of U.S. scholars.

POT 5326 Graduate Seminar in Class Analysis (3). The theoretical and empirical issues associated with class divisions in contemporary societies. Theoretical debates regarding definitional problems of class identity and empirical case studies highlighting class conflict and stratification.

POT 5934 Topics in Political Theory (3). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

POT 6015 Seminar in Classical Political Thought (3). Examination of key elements of classical political thought from the Hellenic to early Christian periods.

POT 6056 Seminar in Modern Political Thought (3). Examines important works and theories or political thought from the renaissance to the early 19th century.

POT 6067 Seminar in Contemporary Political Thought (3). Examines political theories of the 19th and 20th centuries. Special emphasis on the tension between modern and postmodern theory.

POT 6208 Seminar in American Political Thought (3). Students read and discuss classic and contemporary interpretations of U.S. political thought, and apply those ideas to modern U.S. politics.

POT 6303 Seminar on Self and Polity (3). Focuses on conceptions of self that are reinforced by different political regimes. Examines humanities and social science works that address self and polity issues.

POT 6416 Seminar in Marxlsm (3). Analysis of the evolution of Marxism from Marx to the present. Particular attention is given to contemporary Marxist debates.

POT 6603 Political Theory of the Modern State (3). Analyzes evolution and theories of the modern state from the high middle ages to the present. Pre-state formations, classical states, and social science theories of the state are also discussed.

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

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

Psychology

Marvin Dunn, Associate Professor and Chairperson Ram Aditya, Associate Professor

Lori Andrew, Technical Support Specialist

Lorraine Bahrick, Professor Robert Beneckson, Instructor Margaret Bull-Kovera, Associate Professor

Leslie DeChurch, Assistant Professor Joan Erber, Professor Maria Felix-Ortiz, Assistant Professor

Gordon Finley, Professor Ronald Fisher, Professor

Arthur Flexser, Associate Professor Leslie Frazier, Associate Professor Jacob Gewirtz, Professor

Fernando Gonzalez-Reigosa, Associate Professor

Margaret Kovera, Associate Professor

William Kurtines, Professor Mary Levitt, Professor Robert Lickliter, Professor Christian Meissner, Assistant

Professor

Marilyn Montgomery, Assistant Professor

Gary Moran, Professor Kevin O'Neil, Assistant Professor Janat Parker, Professor Suzanna Rose, Professor James Rotton, Associate Professor Bennett Schwartz, Associate Professor

Wendy Silverman, Professor Jonathan Tubman, Associate Professor, and Graduate Chair Chockalingam Viswesvaran, 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.

The Mental Health Counselor Master's program allows students to meet university requirements plus the requirements for a Mental Health Counseling license.

Doctor of Philosophy in Psychology

The doctorate program in psychology has a two-fold focus: (1) life-span development (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 applied psychology encouraging the development of an area of specialization early in graduate

Students are expected to master a series of core-course requirements designed to facilitate a thorough grounding in theory, methodology, and content both in basic and applied research. In addition, a number of seminars reflecting specialized foci are offered. Students are also required to pursue specific areas of interest through independent study with individual members and through apprenticeship with a primary advisor for the purpose of acquiring direct research experience.

Graduate Admission Requirements

The following are in addition to the University's Graduate Admission Requirements:

1. A 3.0 or higher GPA during the last two years as an upper division student and a total score (quantitative plus verbal) of 1,000 or higher on the GRE for the Master's degree. A 3.0 or higher GPA and a GRE verbal and quantitative of 1100 or higher are required for the Ph.D. degree. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 580 score of higher.

2. The GRE and GPA stated above are only minimum requirements. All applications are reviewed by the Program Area Admission Committee, which makes the final admissions decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum aforementioned standards.

Graduate Admissions Procedures

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

 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 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 discipline is founded.

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

Category B. Satisfactory completion of introductory upper division statistics.

Deadline for review of completed applications is January 15 for fall admission.

Course Descriptions

Definition of Prefixes

CLP-Clinical Psychology; CYP-Community Psychology; DEP-Developmental Psychology; EAB-Experimental Analysis of Behavior; EDP-Educational Psychology; EXP-Experimental Psychology; INP-Industrial and Applied Psychology; LIN-Linguistics; PCO-Psychology for Counseling; PPE-Psychology of Personality; PSB-Psychobiology; PSY-Psychology; SOC-Sociology; SOP-Social Psychology; SPA-Speech Pathology and Audiology.

CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if feasible) are covered.

CLP 5169 Proseminar in Developmental Psychopathology (3). A comprehensive review of topics in developmental psychopathology including history, scope, methods, individual and contextual influences, developmental course, long-term outcomes, and resilience. Prerequisites: Graduate standing or Permission of the instructor.

CLP 5175 Personality Dynamics (3). A review of different approaches to the study of personality. Prerequisites: Successful completion of a course in theories of personality, or equivalent. Permission of the instructor.

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

CLP 5931 Ethical Code in Psychological Practice (3). Ethical principles, rules, procedures of Psychologists. Clinical appliation and incorporation of 'the principles into professional interactions. Ethical reasoning is emphasized.

CLP 6168 Psychopathology Across the Life-Span (3). Exploration of the causes of psychopathology from a life-span developmental orientation and implications for theories of personality. Prerequisites: CLP 5166 and Permission of the instructor.

CLP 6375 Clinical Psychology (3). Introduction to the science-profession of clinical psychology, as it is applied to preventing, diagnosing and treating maladaptive or deviant human behavior and relationships. Prerequisites: Admission to the Graduate Program in Psychology or Education and Permission of the instructor.

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

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

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

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

CLP 6498 Diagnosis and Treatment of Sexual Disorders (3). Clinical examination of sexual functioning, emphasizing disorders of gender identity, paraphilias and other dysfunctions and intimacy problems. Prerequisite: Graduate standing or

Permission of the instructor. Corequisites: SOP 3772 or equivalent.

CLP 6945 Clinical Practicum in Psychology (1-3). Supervised experience in clinical techniques and methods. Prerequisites: Graduate standing & Permission of the instructor.

CLP 6948 Clinical Internship (1-3). Clinical Internship in Psychology for Ph.D. candidates who have completed the Clinical Practicum and at least 45 graduate credit hours. Prerequisites: Graduate standing and Permission of the instructor, CLP 6945.

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

CYP 5954 Community Psychology Field Experiences 11 (5). Same orientation and description as Field Experience 1. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

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

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

CYP 6766 The Psychology of Crosscultural Sensitization in a Multicultural Context (3). A series of weekly seminars to increase student sensitivity to working with clients from different cultural backgrounds. The

objectives of the course are: (1) facilitating student awareness of cultural differences and their impact on social and human services delivery systems, (2) identifying the student's own personal cultural biases and values when interacting with culturally different persons, and (3) teaching students to develop culturally appropriate intervention skills.

CYP 6936 Current Issues in Community Psychology (3). An intensive analysis of contemporary theoretical, practical, and professional aspects of the field of Community Psychology. Topics discussed may lead to the graduate project required of each student. Prerequisite: Admission to graduate study in psychology (other graduate students admitted by Permission of the instructor).

DEP 5056 Issues in Life-Span Developmental Psychology: Infancy through Old Age (3). A survey in depth of theories, issues, methods, and data in life-span developmental psychology through the entire age range. Prerequisites: DEP 3001 or DEP 4464, or their equivalents, are recommended.

DEP 5058 Biological Basis of Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or Permission of the instructor. Corequisite: Proseminar courses.

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

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

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

DEP 5185 Emotional Learning and its Reversal (3). Theoretical analyses and methodological issues in the study of emotional learning. Prerequisites: Graduate standing or Permission of the instructor.

DEP 5315 Proseminar in Parent-Child Relations (3). Provides an overview of key issues in parent-child relations including culture, socialization/genetics, fatherhood, timing, adoption, work, effects of children on parents, and parent training. Prerequisite: Graduate standing or Permission of the instructor.

DEP 5344 Psychology of Moral Development (3) An introduction to the literature on moral development. Review and discussion of recent developments in this area. Prerequisities: Graduate standing or Permission of the instructor.

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

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

DEP 5725 Seminar in Psychosocial Development (1). This course is designed to develop research skills and competencies in the area of psychosocial development. The emphasis of the course is on involvement in original research.

Prerequisite: Permission of the instructor. Corequisite: Senior undergraduate or graduate standing.

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

DEP 6117 Psychology of Caregiving (3). An advanced seminar focusing on one or more topics in depth and requiring literature reviews and research design. Topics may include timing of parenthood, adoption, and fatherhood.

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

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

DEP 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 Cognition and Language (3). Course covers the acquisition of cognitive processes and language, and their interdependence. Theory and

research focusing on innate vs. learned aspects are discussed. Prerequisite: Graduate standing or Permission of the instructor.

DEP 6936 Current Literature in the Psychology of Infancy, Childhood, and Adolescence (3). This seminar will present and evaluate current research articles in the major journals in infant, child, and adolescence psychology. Prerequisite: Second year graduate standing.

DEP 6937 Current Literature in the Psychology of Adulthood and Aging (3). This seminar will present and evaluate current research articles in the major journals in the psychology of adulthood and aging. Prerequisite: Second year graduate standing.

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

DEP 7069 Seminar in Life-Span Cognitive Developmental (3). This graduate seminar will examine, through intensive reading and seminar discussion, the major theories, issues and empirical research on cognitive growth, change and decline from infancy through old age. Prerequisites: Two courses in Developmental Psychology (any level).

DEP 7096 Seminar in Psychology of Life-Span Social Development (3). This course includes a consideration of general issues and discussion of the application of life-span models to selected topics development. Prerequisite: Graduate standing or Permission of the instructor.

EAB 5098 Proseminar in the Experimental Analysis of Behavior (3). An advanced survey of the principles of respondent and operant conditioning and the bases of action in both social and non-social settings. Prerequisites: EAB 3002, EAB, 4034, or equivalents.

EAB 5655 Advanced Methods of Behavior Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of respondent and operant conditioning. as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior therapy, relaxation therapy. behavior modification, biofeedback or similar behavioral approaches. Prerequisites: EAB 4794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or Permission of the instructor.

EAB 5797 Single-Case Research Methods (3). Intensive study of designs, strategies, and methods of single-case behavioral Prerequisites: Graduate standing or Permission of the instructor.

EAB 6707 Developmental Behavior Analysis (3). A survey of the application of the principles, methods, and applications of experimental behavior analysis to various life-span segments and developmental themes. Prerequisites: Proseminar in Behavioral Analysis or an undergraduate EAB course (EAB 3002, EAB 4034, or EAB 4794).

EDP 6935 Special Topics in Educational Psychology (VAR), An intensive analysis of a particular topic in educational psychology. Students must have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the College of Education.

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

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

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

EXP 5524 Cognitive Neuroscience (3). Investigation of the relation between mind and brain. Discuss

literature from both patient studies and from the growing research in neuroimaging. Prerequisite: Graduate standing.

EXP 5527 Memory and Consciousness (3). The relation of memory and consciousness is explored with emphasis on issues of current research and theoretical work from both a cognitive and a neuropsychological perspective. Prerequisite: Graduate standing.

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

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

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

INP 6216 Personnel Selection (3). Characteristics of Personnel Selection systems used in organizations. Validity generalization, utility, applicant reactions, and legal cases pertaining to employee selection. Prerequisites: Proseminar in I/O and graduate level statistics course.

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

INP 6611 Organizational Stress (3). This seminar examines conceptualizations, causes, consequences, and correlates, of stress, strain, and coping in the workplace.

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

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

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

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

PSY 5206C Fundamentals of Design of Experiments (3). CRD and RCB designs. Latin square designs. Factorial, nested and nested-factorial experiments. Fixed, random and mixed models. Split-plot designs. Covariance analysis. Prerequisites: STA 3122 and 3123, or their equivalents.

PSY 5216 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisites: Graduate standing or Permission of the instructor.

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

PSY 5605 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisite: Graduate standing or Permission of the instructor.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an

instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of the instructor.

PSY 5918 Supervised Research (VAR). Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

PSY 5930 Qualitative Research
Methods in Development Psychology
(3). Review recent developments in
qualitative research methods. The
focus will be on the application of
these methods to research on human
development. The interpretation of
qualitative and quantitative methods
will be stressed.

PSY 5939 Special Topics in Psychology (3). Special topics will be announced in advance.

PSY 6945 Teaching of Psychology (1). An introduction to the art of college teaching and specifically the art of teaching psychology. It is designed for first-year graduate students to provide instruction and support for teaching college classes. Prerequisite: Graduate standing.

PSY 6956 Psychology Field Experience (VAR). Placement of students in applied settings for the purpose of developing community-based experience in the application of theoretical and methodological approaches. Prerequisite: Graduate standing.

PSY 6971 Master's Thesis in Psychology (3-6). Supervised research on an original research project submitted in partial fulfillment of Master's degree requirement.

PSY 7940 Supervised Teaching in Psychology (1). Supervised teaching under the guidance of faculty advisor. May be repeated only three times. Prerequisite: Doctoral graduate study.

PSY 7980 Ph.D. Dissertation (1-12). Supervised research on an original research project submitted in partial fulfillment of doctoral degree requirements. Prereq-uisite: Permission of Major Professor and Doctoral Candidacy.

SOP 5058 Proseminar in Social Psychology (3). An in-depth examination of the role of social psychology in

the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisite: An introductory course in social psychology or its equivalent.

SOP 5081 Psychological Influences on Health and Illness (3). Provides a comprehensive review of theory, research, and interventions in the field of health psychology. Prerequisite: Graduate standing or permission of the instructor.

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

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

SOP 6098 Proseminar in Legal Psychological research methods and psychological knowledge to contemporary issues in criminal and civil litigations. Prerequisite: Graduate standing.

SOP 6441 Seminar in Social Cognition (3). Provides a critical review of current theory and research on social cognition and its relationship to stereotyping, persuasion, attribution, and social perception. Prerequisite: Graduate standing.

SOP 6752 Psychology of Juries (3). A review of psychological research on juries and jury decision-making. Emphasis is placed on the critical analysis of jury research and relevant case law. Prerequisite: Graduate standing.

Religious Studies

Nathan Katz, Professor and Chairperson

Daniel Alvarez, Visiting Instructor Christine Gudorf, Professor and Graduate Program Director Steven Heine, Professor

James Huchingson, Associate Professor and Undergraduate Program Director

Erik Larson, Associate Professor Lesley Northup, Associate Professor Terry E. Rey, Associate Professor Oren B. Stier, Assistant Professor Zion Zohar, Visiting Assistant Professor

Affiliated Faculty
Thomas A. Breslin
Bongkii Chung
Paul Draper
David L. Lee
Kathryn L. McKinley
Mohiaddin Messbahi
Joseph F. Patrouch
Meri-Jane Rochelson
Dennis Wiedman

Master of Arts in Religious Studies

FIU's Master of Arts in Religious Studies is designed to give students maximum flexibility in pursuing their research interests, while providing a firm foundation in both the general academic study of religion and the student's area of specialization.

The M.A. is a 36-credit hour program: 6 hours of core seminars, 12 hours of 'track' courses, and either 12 hours of electives and 6 hours of thesis work, or 18 hours of electives.

Requirements for Admission

Application to the Master of Arts program in Religious Studies is made through FIU's Office of Admissions. The usual minimum requirements for admission include a baccalaureate degree from an accredited college or university and:

- A graduate degree in the humanities or social sciences from an accredited college or university
- 2. A score of 550 or higher on the verbal portion of the Graduate Record Examination (GRE)
- 3. An undergraduate GPA of 3.5, earned no more than 7 years prior to application.

A student who does not meet any of these three requirements may qualify for admission by fulfilling the following conditions:

 Writing an acceptable essay on a topic assigned by the department in a monitored and timed session.

and one of the following:

 A GPA of at least 3.5 in 9 or more hours of graduate study in departmental courses (as a special student)

or

 A score of at least 475 on the verbal portion of the GRE.

or 1

 An undergraduate GPA of at least 3.0.

Applications for admission are available from the FIU Office of Graduate Admissions and are evaluated by the Departmental Graduate Studies Committee.

Degree Requirements

- Prerequisite: undergraduate course REL 3308, to be completed by the end of the first semester of graduate work.
- Two core seminars. The first, the "Seminar on Sacred Texts," will be offered every fall. The second core seminar, "Modern Analysis of Religion," will be offered every spring.
- A track of four related courses chosen in consultation with the Graduate Program Director.
- Either 12 hours of elective courses and a thesis (involving either 6 hours of thesis credit or 3 of thesis and 3 of independent research), or 18 hours of electives and no thesis. Students must register with the Department's Graduate Committee for thesis track or nonthesis track during the semester in which they will complete 24 hours of credit in the program. Registration in the thesis track will require securing the agreement of a member of the Graduate Faculty to serve as Thesis Advisor.

The Department of Religious Studies does not regard the non-thesis track as appropriate preparation for further graduate study in Religious Studies.

Course Descriptions

Definition of Prefixes

GRE-Ancient Greek; HBR-Biblical Hebrew, REL-Religion.

REL 5023 Religious Ritual (3). Examines the critical relationship of ritual, religious practice and belief, and culture, while introducing the principles and methods of ritual studies. Prerequisite: Graduate standing or permission of the instructor.

REL 5025 Myth and Religion (3). Investigates the role, function, and meaning of myth in religious experience and practice through an examination of specific myths, mythic patterns, and critical theories. Perequisite: Graduate standing or permission of the instructor.

REL 5122 African-American Religion (3). Survey of development of African-American Religions with emphasis on North American experience during slavery, Jim Crow and contemporary eras. Prerequisite: Graduate standing or permission of the instructor.

REL 5125 Religion and Public Life
(3). Examines the relationship of religion and government in the United States, with focus on the First Amendment and issues of separation of church and state. Prerequisite: Graduate standing or permission of the instructor.

REL 5137 North American Religion (3). Historical examination of religious groups and influences in North America, focusing on their contributions and cultural impact. Prerequisites: Graduate standing or permission of the instructor.

REL 5138 Sects, Cults, and New Religions (3). Explores and critically analyzes the multiplicity of new American religious movements and the unique combination of factors that has encouraged them. Prerequisites: Graduate standing or permission of the instructor.

REL 5144 Women and Religion (3). Examines the influence of religion on social construction of gender and the definition of woman's nature and role, with a focus on Western developments. Prerequisite: Graduate standing or permission of the instructor.

REL 5149 Religion, Violence, and Conflict (3). Is religion peaceful or violent? Theoretical analysis of the role of religion in violent, social and politeal conflicts, such as the Crusades, the Arab-Israeli conflict, and the Haitian Revolution. Prerequisite: Graduate standing or permission of the instructor.

REL 5165 Science and Religion (3). Surveys the interaction between science and religion from conflict models to integration; special attention to specific natural sciences including cosmology and biology. Prerequisite: Graduate standing or permission of the instructor.

REL 5182 Religion and Ethics (3). Investigation of methods, resources for ethics in world religions, and some examples of issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5183 Ethics and Environment (3). A study of cultural and religious sources of contemporary ethical attitudes and values about the environment. Also includes consequences of these for specific environmental issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5184 Sex, Ethlcs, and Religion (3). Religious treatment of sexual activity, desire and procreation in major religions, with special focus on contemporary scientific research on sexuality and spirituality. Prerequisite: Graduate standing or permission of the instructor.

REL 5192 Seminar in Mysticism (3). The issues of consciousness, language, and morality in mystical tradition of the east and west, including Kabbalah, Neoplatonism, Sufism, Yoga, Taoism, and Zen. Prerequisite: Graduate standing or permission of the instructor.

REL 5208 Studles of the Dead Sea Scrolls (3). Overview of the Dead Sea Scrolls explores the new techniques being used in their study. Prerequisite: Graduate standing or permission of the instructor.

REL 5211 Bible 1: The Hebrew Scriptures (3). Extensive reading in the Hebrew Scriptures how the various texts of the Hebrew Scriptures came to be written, and how they can be interpreted - both within the context of faith communities and within the cultural contexts out of which the texts were written. Prerequisite: Graduate standing or permission of the instructor.

REL 5232 Hebrew Exegesls I (3). Provides a comprehensive survey of the fundamentals of the language of the Hebrew Bible designed to equip the student for the task of exegesis. Prerequisite: Graduate standing or permission of the instructor.

REL 5233 Hebrew Exegesis II (3). A continuation of Hebrew Exegesis I emphasizing the reading of select passages of the Hebrew Bible to develop skills in translation and interpretation. Prerequisite: REL 5232 and graduate standing.

REL 5242 New Testament and Qumran (3). Detailed investigation of the possible contacts between the New Testament and Qumran in such areas as Biblical Exegesis, Apocalypticism, Eschatology, and Messianism. Prerequisite: Graduate standing.

REL 5244 Bible II: The New Testament (3). History, theology, and interpretation methods of the New Testament. Prerequisite: Graduate standing or permission of the instructor.

REL 5262 New Testament Greek Exegesis 1 (3). A detailed overview of the principles of Greek grammar that shows the student how to use Greek in the study of the New Testament. Prerequisite: Graduate standing.

REL 5263 New Testament Greek Exegesis II (3). Careful reading of selected passages of the New Testament and early Christian literature designed or selected to develop skills in interpretation. and translation Prerequisite: REL 5262 and graduate standing.

REL 5331 Religions of India (3). Topics include: religion in prehistoric and ancient India, classical Hindu texts and schismatic movements, medieval theism, the acculturation of extrinsic religions, Hindu-Muslim-Sikh syncretism, and the modern period. Prerequisite: Graduate standing or permission of the instructor.

REL 5346 Seminar on Buddhism (3). The central doctrines and rituals of the Buddhist tradition, including the views on causality, mindfulness, monasticism, salvation, purity, and ethics in the Theravada, Tantric, and Zen schools. Prerequisite: Graduate standing or permission of the instructor.

REL 5352 Religions of East Asia (3). The history, philosophy, and cultural impact of the major religious traditions of East Asia, including Confucianism, Taoism, Buddhism, Shinto, and syncretic folk religions. Prerequisite: Graduate standing or permission of the instructor.

REL 5372 African Spirituality (3). Intensive investigation of select forms of traditional spirituality in sub-Saharan Africa, including ritual, sacrifice, and spirit possession, and Africanized Christian and Islamic Graduate devotion. Prerequisite: standing or permission of the instructor.

REL 5384 Rasta, Vodou, Santeria (3) Critical, sociological and phenomenological analysis of the history, beliefs, rituals, and social significance of Rastsfarianism, Vodou, and Santeria on the Caribbean and the United States. Prerequisite: Graduate standing permission of the instructor.

REL 5385 Native American Religions (3). An advanced study of Native American religions and the methods employed to investigate them. Attention will be given to traditional expressions. contemporary Prerequisites: Graduate standing or permission of the instructor.

REL 5394 Jewish Mystical Texts (3). A study of the major movements and figures in the development of Jewish mysticism through its significant texts, from biblical times up to the present. Prerequisites: Graduate standing or permission of the instructor.

REL 5462 Religion and Philosophy (3). Examines the use of philosophical reasoning to justify religious belief or its rejection. Such topics as natural theology, atheism and fideism will be examined. Prerequisite: Graduate standing or permission of the instructor.

REL 5488 Theology and Liberation Movements (3). Comparison of Latin American, feminist, and African American theologies of liberation, including methods, social analysis, interlocutor, location. social ecclesiology, theology, eschatology and use of scripture. Prerequisite: Graduate standing or permission of the instructor.

REL 5495 Interreligious Dialogue (3). The intellectual basis, the classical formulations, and the contemporary practice of interreligious dialogue in a settings. of cultural variety Prerequisites: Graduate standing or permission of the instructor...

- REL 5501 History of Christianity I
 (3). Christianity from its origins to the
 Middle Ages. Doctrinal and
 organizational development of the
 church and characteristic aspects of its
 spiritual life. Prerequisite: Graduate
 standing or permission of the
 instructor.
- REL 5502 Saints, Witches and Missionaries (3). Survey of movements, reforms, divisions, and major ideas within institutional Christianity, 1400 to present. Prerequisites: Graduate standing or permission of the instructor.
- REL 5515 History of Early Christianity (3). Origin and growth of Christianity from the first to the fifth century, and the adaptation of its message to the Greco-Roman world. Prerequisites: Graduate standing or permission of the instructor.
- REL 5565 Modern Catholicism (3). Theology and liturgical practice in the Roman Catholic Church from Trent (16th e) to the present, with primary and secondary sources. Prerequisite: Graduate standing or permission of the instructor.
- REL 5605 Studies in Judaism (3). Historical overview of Jewish belief and practice, with special consideration of Jewish ritual life. Prerequisites: Graduate standing or permission of the instructor.
- REL 5606 Rabbinic Judaism (3). The theology and ideologies of the 1700-year period in the history of Judaism known as Rabbinic Judaism. Prerequisite: Graduate standing or permission of the instructor.
- REL 5614 Ancient Judaism (3). The history, literature and characteristic institutions of Judaism from the Persian period to Amoraic times. Attention given to developments in the land of Israel and the diaspora. Prerequisite: Graduate standing or permission of the instructor.
- REL 5615 Medieval Judaism (3). The works of major thinkers in Medieval Judaism, including Maimonides, Nahmanides, Halevi, Luzatto, and such topics as Jewish mysticism (Kabalah) and Hasidism. Prerequisite: Graduate standing or permission of the instructor.
- REL 5618 Modernization of Judaism (3). Explores the ways in which religious beliefs and traditional

- concepts of Jewish self identity have changed as a result of emancipation and participation of Jews in the modern Western world. Percequisite: Graduate standing or permission of the instructor.
- REL 5619 Holocaust Representations: Religion and Remembrance (3). Examines the symbolic and cultural representations of the Holocaust through its religious/theolo-gical discourse and its remembrance. Implications for Jewish life and thought are also explored. Prereq-uisites: Graduate standing or permission of the instructor.
- REL 5XXX Studies in Native American Religions (3). Topics include: Cosmologies, mythologies, concepts of the supernatural, relations with nature, shamans, vision quests, tribal ceremonies, syncretism, and contemporary issues.
- REL 5XXX Religion, Literature, and Critical Theory (3). Examines intersections between world religions and contemporary literature in light of modem theories of interpretation. Themes explored include scriptural rereadings and spiritual journeys. Prerequisites: Graduate standing or permission of the instructor.
- REL 6013 Modern Analysis of Religion: Classic Texts in Religious Studies (3). Critical reflection upon the nature and function of religion, as found in classics of the field. Perequisite: Graduate standing or permission of the instructor.
- REL 6195 Sociological Approaches to Religion (3). Sociological Method/Theory in religious studies scholarship on religious ritual around life cycle events. Individual and group projects.

 Prerequisites: Graduate standing or permission of the instructor.
- REL 6322 Seminar in Western Religions (3). Similarities and differences in the three Western monotheistic religions of Judaism, Christianity and Islam during their historical development. Prerequisite: Graduate standing or permission of the instructor.
- REL 6395 Seminar in Asian Religions (3). Asian religious traditions texts, rituals, or artifacts. May be repeated with change in content. Prerequisites: Graduate standing or permission of the instructor.

- REL 6442 Religion In the Contemporary World (3). Society and religion in processes of secularization and pluralism. Attention to religious interpretations of socio-cultural processes. Prerequisite: Graduate standing or permission of the instructor.
- REL 6921 Colloquium (1). Students attend a minimum of three lectures, conferences, or professional presentations, with seminar report and discussion. May be repeated. Prerequisite: Graduate standing.
- REL 6930 Pedagogy Workshop (1). Two-day teaching workshop offered by the Academy for the Art of Teaching. Prerequisite: Graduate standing.
- REL 6931 Pedagogy Seminar (1).
 Provide Teaching Assistants with
 pedagogical skills, such as lecture
 preparation, exam preparation and
 grading, advising and small group
 work. Prerequisite: Graduate standing
- REL 6935 Seminar in Sacred Texts (3). Sacred texts with a common theme from several religions. Problems of interpretation are a central concern. Perequisite: Graduate standing or permission of the intructor.
- REL 6938 Pedagogy Forum (1). Students attend at least six (6) teaching forums for certificate offered by the Academy for the Art of Teaching. Prerequisites: AAT Summer Teaching Workshop.
- REL 6940 Teaching Religious Studies (3). Assist the instructor in an introductory course and attend seminar meetings. Topics: 'faith' vs 'objectivity' in the classroom; student diversity; religious studies as a profession; designing an introductory course. Prerequisite: Graduate standing or permission of the instructor.
- REL 6971 Thesis (1-6). For students working on the thesis for the M.A. in Religious Studies. Prerequisites: Graduate standing and permission of the instructor.
- 6972 REL Thesis Proposal Development (3). Elements of thesis construction. including thesis statement. feasibility research. bibliography, methodology. Initial 3 credits of thesis may be required for some students by GPD and thesis advisor. Prerequisite: Permission of instructor.

REL 6XXX Biblical Archaeology (3).
Introduces the methods used in archaeological excavations. Finds from the Bronze Age to the Greco-Roman period are examined for the ways they bring new understanding to the texts of the Bible. Prerequisites: Graduate standing or permission of the instructor.

REL 6XXX Teaching Internship (1-3). Advanced work in Religions Studies pedagogy, including classroom teaching, assignment development and grading, and seminar discussion of pedagogical issues. Prerequisite: Graduate standing.

Sociology and Anthropology

Richard Tardanico, Associate Professor, Chair Jerald B. Brown, Associate Professor Janet M. Chernela, Professor Nadine Fernandez, Assistant Professor

Stephen M. Fjellman, Professor and Associate Dean, Honors College Chris Girard, Associate Professor and Director, Graduate Program

Hugh Gladwin, Associate Professor and Director, Institute for Public Opinion Research

Guillermo J. Grenier, Professor Antonio Jorge, Professor

A. Douglas Kincaid, Associate Professor and Vice Provost, International Studies

Lilly M. Langer, Associate Professor, and Director, Center for Youth Development

Abraham D. Lavender, Professor Barry B. Levine, Professor Shearon A. Lowery, Associate Professor

Sarah Mahler, Associate Professor Anthony P. Maingot, Professor Kathleen Martin, Associate Professor James A. Mau, Professor

Betty Hearn Morrow, Professor and Director, Laboratory for Social Vulnerability, International Hurricane Center

Lisandro Perez, Professor and Director, Cuban Research Institute

Jean M. Rahier, Associate Professor Robin Sheriff, Assistant Professor Alex Stepick, Professor and Director, Immigration and Ethnicity Institute William T. Vickers, Professor Lols West, Associate Professor

Affiliated Faculty
William W. Darrow, Professor,
Public Health

James Rivers, Associate Director, Laboratory of Social and Behavioral Research, International Hurricane Center

Dennis Weidman, Adjunct Professor and Assistant to the Provost

The Comparative Sociology Graduate Program at Florida International University provides a unique opportunity to integrate the traditional strengths of sociology and anthropology by combining theory and empirical research with qualitative methods. The Program's faculty is

especially noted for studying ethnic minorities, international development, , gender, human ecology, labor, migration, theory, medical sociology and anthropology, and the sociology of disasters.

The Comparative Sociology Program provides professional training in social science research and theory for careers in higher education, government service, and the private sector. Requirements for the graduate program allow students to construct an individualized program that meets their program is designed to facilitate the process of obtaining a doctorate in Comparative Sociology. Students may decide to obtain only a M.A. while working toward their Ph.D.

Admission Requirements

Each applicant to the Graduate Program in Comparative Sociology must complete a graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports to the Graduate Records Exam (GRE) and TOEFL (if applicable) to the FIU's Office of Admissions. Each applicant should also send a separate letter of application to the director of the Comparative Sociology Graduate Program, along with copies of the material. The letter application should include a statement expressing the applicant's academic and professional objectives. Applicants are strongly encouraged to include examples of academic or other relevant professional work that may support their application. Applicants must request three letters of recommendation from individuals able to comment on their academic ability. The letters of recommendation should be sent directly to the Director of the Comparative Sociology Graduate Program.

The application file must be complete before the Comparative Graduate Sociology Committee will consider the applicant for admission. For those seeking admission in the Fall, the first deadline for receipt of application - including all supporting materials and letters of recommendation - is FEBRUARY 15th if the applicant desires an early The deadline for ALL decision. applicants seeking assistantships is Applicants will be APRIL I. considered for Fall, Spring, and Summer admissions as long as applications are completed received by the following dates:

Fall - February 15
(Early acceptance)
April I
(Assistantship
consideration)
July I
(Final deadline)

• Spring - October 15

Summer-April 1

To be admitted into the Comparative Sociology Graduate Program a student must meet the University's graduate admission requirements which can be found in Florida International University's Graduate Catalog and the following minimum standards:

I. Applicants must have a baccalaureate degree from an accredited college or university. Students pursuing a Ph.D. and who do not have a Masters in Anthropology, Sociology, Comparative Sociology, or a closely related field which includes a written thesis must obtain the Masters in Comparative Sociology at FIU on their way to completing the requirements of the Ph.D.

2. Applicants must have an undergraduate grade point average (GPA) of 3.25 or higher and a combined score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE). Applicants must submit both grade transcripts and GRE scores for consideration. The student must also have a GPA of 3.5 on any previous graduate work.

graduate Work.

3. Applicants should request that three letters of recommendation from individuals able to judge a student's academic potential be sent directly to the Director of the Comparative Sociology Graduate Program, Department of Sociology and Anthropology, Florida International University, Miami, Fl. 33199.

4. Applicants are encouraged to submit examples of written work and other supporting materials.

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

While a baccalaureate major in sociology or anthropology is helpful, it is not required for admission to the program. However, newly admitted graduate students who have no prior course work in sociology, anthropology, or statistics may be

required to take one or more undergraduate courses as prerequisites for graduate-level courses. This decision is based on the evaluation of the student's undergraduate record by the Graduate Program Committee.

Financial Aid

Each academic year a limited number of graduate students are hired as assistants. teaching Teaching assistantships are allocated on a competitive basis and typically pay a substantial portion of tuition expenses and provide a stipend. To be considered for an assistantship the applicant must make such a request in writing to the Graduate Program Director. The awarding of teaching assistantships will be made by the Graduate Program Committee. Students receiving an assistantship are required to perform approximately 20 hours of teaching related duties per week and are required to participate in a one hour seminar related to teaching.

The Masters Program

The M.A. in Comparative Sociology is designed to provide the student with a strong foundation in theory and research skills. While a baccalaureate major in sociology or anthropology is helpful, it is not equired for admission to the program.

M.A. Degree Requirements

The Department of Sociology and Anthroplogy offers two Masters program options. The regular Masters Program option is designed for those students seeking advanced training in Comparative Sociology who are likely to pursue a Doctorate or professional degree here or elsewhere and therefore need to complete a thesis. alternative program option, termed a Professional Masters, is designed for those students who are seeking advanced training in Comparative Sociology, but do not wish to complete a thesis and are unlikely to seek further advanced training at the Doctorate level. Completion of the thesis is required for those wishing to pursue Ph.D. degree in our graduate program. A. Regular M.A. Option:

 ANG 5496
 Social Research and Analysis
 3

 SYA 6125
 Classical Social Theories
 3

 SYA 6305
 Research Methods 1
 3

 SYA 6126
 Contemporary Social

Research Methods II

Theories

SYA 6306

Five (5) elective graduate courses (must be at the 5000-level or higher) 15 SYA 6975 Thesis 6

B. Professional Masters Options:

The professional option for an M.A. in Comparative Sociology requires a total of 36 semester hours of credits including 9 credits in core courses and 27 credits in electives. The three core courses, which must be taken within the Department of Sociology and Anthropology, are as follows: Research Methods I, one graduate-level course in Theory, and one additional graduate-level course in either Theory or Research Methods. (The last two core courses must be selected from the lists below).

NOTE: For fulltime students (nine credits or more), the three core courses MUST be taken during the first year in the program during the semester indicated.

Three Core Courses:

SYA 6305 Research Methods I
One (1) course from Theory [list
below] 5
One (1) additional course from either
Theory or Methods: [list below] 5
Course List for Research Methods:
ANG 5496 Social Research and

Analysis
SYA 6306 Research Methods II
ANT 6497 Qualitative Methods
Course List for Theory:

SYA 6125 Classical Social Theories

SYA 6126 Contemporary Social Theories

Electives:

Nine (9) elective graduate courses at the 5000 level or higher. 27

Graduation Requirements

To remain in good standing and to qualify for graduation, students must maintain a graduate GPA of 3.0 or higher. A grade of "B" or higher MUST be received for all CORE COURSES. All M.A. course requirements MUST be met and for those students pursuing the regular M.A. option, a Thesis must be completed and accepted after defending before their thesis committee. All requirements for the M.A. in Comparative Sociology, including the successful defense of the Thesis, MUST be completed within SIX (6) years of enrollment in the graduate program.

The program will provide student access to a wide range of support facilities including research library. cultural events, and other occasions for intellectual growth associated with campus life, significant faculty/student interaction, opportunities for student exposure to and engagement with cognate disciplines and research scholars working in those disciplines, and significant peer interaction among graduate students. Students will be provided with the opportunity for a mentoring apprentice relationship with faculty and students as well as aequate time for in-depth evaluation on the See SACS Criteria for student. Accreditation 4.3 and 4.18.

The Ph.D. Degree Requirements

The Ph.D. program in Comparative Sociology incorporates and builds on the M.A. program. The Ph.D. program consists of 90 semester hours of course work that includes the 36 hours necessary to obtain the M.A. degree in comparative sociology at FIU. The 90 hours of course work are divided into three major areas: core courses, substantive area courses, and specialty/elective courses. remaining course work will be made up of thesis/dissertation hours. In addition to course work, students are required to meet successfully the following: a thesis requirement; a written general examination; a post-thesis review, write and defend a dissertation proposal, and write and defend a dissertation.

Thesis Requirement

As part of the Doctoral Program in Comparative Sociology, students are expected to complete the requirements of a Masters Degree in Comparative Sociology, students are expected to complete the requirements of a Masters Degree in Comparative Sociology, including the writing and defense of a thesis, and the completion of the postthesis review process. The process of writing and defending a thesis is an integral and essential part of the Ph.D. program. Students who have obtained a Masters and written a thesis in Anthropology, Sociology, Comparative Sociology, or related field may petition the Graduate Program Committee for exemption from the thesis requirement. After meeting the thesis requirement and completing masters related course work, a student must undergo a Post-Thesis Review and be approved to continue in the Ph.D. program

Course Work

The Ph.D. curriculum in Comparative Sociology consists of a total of 90 semester hours. In addition to a minimum of 30 thesis and dissertation hours, students must successfully complete 60 hours of course work divided into three areas: Core Courses (21 hours): Substantive Area Courses (12 hours); and Specialty/Elective Courses (27 hours).

Core Courses

The foundation of the core curriculum includes five required courses: SYA 6125 (Classical Social Theories). SYA 6126 (Contemporary Social Theories), ANT 5496 (Social Research and Analysis), SYA 6305 (Research Methods I), and SYA 6306 (Research Methods II). These courses are designed to provide a foundation in general theory and methods. The methods courses will provide the student with a survey of qualitative and quantitative methods including computer-based statistical analysis. All students are expected to become thoroughly familiar with the use of computers for work in comparative sociology.

In addition, students are required to complete two additional core courses, one in methods and the other in theory, which are designed to provide them with an understanding of more advanced theory and methods, while meeting individual professional goals. Students may select the courses most consistent with their goals. However, they are encouraged to seek the advice of the Graduate Director and their advisor when making this decision.

Substantive Area Courses

Students will choose two substantive areas, from among those offered by the department. Each student will be required to take a minimum of two courses within each of their chosen areas. Current areas reflect the substantive specialties in which the faculty of Comparative Sociology have particular expertise: Cultural Analysis; Development and Social Change; Gender/Family; Medical; and Ethnicity, Race, and Migration. The required load of two courses in each substantive area is designed to provide added breadth to students' general knowledge.

Specialty/Elective Courses

In order to facilitate the creation of an individually tailored area of specialty, students may select 27 hours of graduate course work at Florida

International University as specialty/elective courses. The specialty area course work should be developed by students with guidance from their major professor and research committee. At least two—but no more than four—elective courses must be from outside the department.

Ph.D. General Examination

After successfully completing the Post-Thesis Review and subsequent core and substantive course work, each student will take a written Ph.D. General Examination. This examina-tion will be conducted in accordance with the FlU Graduate Policies and Procedures Manual and the Department's General Examination guidelines. The General Examination will include questions in four areas: theory, methods, and the two substantive areas selected by the student. (See Comparative Sociology Graduate handbook for details).

Dissertation Proposal and Defense

After passing the General Examination, students will develop a dissertation proposal. Upon completing the proposal and elective/specialty course work, the student must orally defend the dissertation proposal before their Research Committee. The Proposal defense will consist of a comprehensive oral defense of the dissertation proposal and relevant literature as determined by the student's research committee. The proposal defense serves as the candidacy examination for the Comparative Sociology Graduate Program. A copy of the approved proposal must be filed with the Dean of Graduate Studies at least one full semester prior to defense of the dissertation. The student will generally defend the proposal during the semester that required course work is completed. Upon passing the Dissertation defense. the student is admitted to candidacy Only after successfully defending the dissertation proposal may a student register for dissertation credits (SYA 7980).

The Dissertation Defense

After successfully defending the dissertation proposal, students will conduct research and complete their dissertations. Upon completion of their dissertation and authorization of the research committee, the student will then defend their dissertations before their research committee.

Course Descriptions

Definition of Prefixes

ANG-Anthropology Graduate; ANT-Anthropology; SYA-Sociological Analysis; SYD-Sociology of Demography and Area Studies; SYG-Sociology, General; SYO-Social Organization; SYP-Social Processes. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering

ANG 5403 Ecological Anthropology (3). Theories of human adaptation, including environmental determinism, possibilism, cultural ecology, materialism, and evolutionary ecology. Credit for both ANT 3403 and ANT 5548 will not be granted. Prerequisite: Graduate standing or Permission of the instructor. (SS)

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

ANG 5905 Directed Individual Study (1-20). Supervised readings and/or field research and training. Pererequisite: Permission of the instructor. (F.S.SS)

ANG 5915 Directed Field Research (1-20). Permission of the instructor required.

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

ANG 6339 Seminar on Latin
America (3), Analysis of Latin
American cultures and classes using
case studies. Students read a series of
anthropological or sociological works
and discuss them in a seminar format.
Prerequisite: Graduate standing or
Permission of the instructor. (F)

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

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

ANT 5318 American Culture and Society (3). Anthropological analysis of the cultures and subcultures of the United States, focusing on the social, ethnic, and regional organizations and their corresponding value and symbolic systems. Prerequisite: Graduate standing or Permission of the instructor. (F)

ANT 5XXX Advanced Diaspora Cultures and atvity (3). Examines approaches adopted by African diaspora studies scholars in social and cultural anthropology, and recent theoretical texts and debates in Performance Studies. Prerequisites:

ANT 5XXX Representations of Africa and Africans in Films (3). Analyzes representations of Sub-Saharan Africa and Africans in various cinematic traditions (including documentaries) and examines these representations in socioeconomic and political contexts. Prerequisites: Permission of Instructor.

ANT 6302 Gender Identity in Comparative Perspective (3). Comparative examination of cultural and socio-economic factors defining gender identities and relations in western and non-western societies. Includes selected cross-cultural case studies. Pereequisites: Graduate Standing or Permission of the instructor. (S)

ANT 6319 The African Diaspora: Anthropological Perspectives (3). History and cultures of Africans outside of Africa, with a special emphasis on the African experience in the Americas. Topics covered include slavery, class, gender, ethnicity, and religion. Prerequisite: Graduate standing.

ANT 6469 Graduate Medical Anthropology (3). Concepts and methods in the field of medical anthropology. Importance of culture in governing the type and frequency of disease in a population, the way people

explain and treat disease, and responses to the delivery of modern medicine. Prerequisite: Graduate standing. (S)

ANT 7491 Contemporary Theory in Social Anthropology (3). Graduate seminar examining current theoretical issues in social anthropology. Prerequisite: SYA 6125 and SYA 6126 or permission of the instructor.

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

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

SYA 5941 Directed Field Research (VAR). Permission of the instructor required. (F,S,SS)

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

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

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

SYA 6306 Research Methods II (3). The second in a two-course sequence on research methods in comparative sociology. Includes the quantitative analysis of sociological research data, and the preparation of written reports and articles. Prerequisite: SYA 6305 and ANG 5496 or equivalent. (S)

SYA 6307 Research Methods III (3).
Advanced quatitative analysis of sociological problems in measurement, data collection and quality, and analysis

techniques. Prerequisites: SYA 6306, ANG 5496 or equivalent and STA 3112 or STA 6167 or STA 5236 or Permission of the instructor.

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

SYA 6941 Internship in Applied Sociology (1-9). Practical application in a supervised setting outside of the classroom of knowledge acquired in the classroom. Hours may vary.

SYA 6943 South Florida Area Study (3). Current issues in South Florida Studied through large-scale survey research conducted by class members. Provides experience in research techniques and the development and testing of theory. Prerequisites: SYD 6625 and SYA 6305. (5)

SYA 6959 Writing Research Proposals (3). Development of skills in writing research proposals. Prerequisite: Three completed semesters of graduate work.

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

SYA 7651 Foundations of Social Theory Construction (3). Seminar exams assumptions of social theory. Topics include objectivity in the social sciences, social science concepts and explanations, reductionism, and the bases of social theory construction. (S)

SYA 7930 Special Topic in Comparative Sociological Research (3). A detailed exploration into particular research methodologies, approaches and techniques relevant to Comparative Sociology. Topic will vary depending upon the instructor. Course may be repeated. Prerequisites: SYA 6305 and SYA 6306 or Permission of the instructor.

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

SYA 7941 Field Research (1-9). Research projects or certain aspects of

research in a field situation carried out by one or more students under the direction of a faculty member. Topics vary. Usually selected on an individual basis. Hours may vary. (F,S,SS)

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

SYA 7979 Advanced Research (1-9). Research projects or certain aspects of research carried out by one or more students under the direction of a faculty member. Topics vary; selected on an individual basis. Hours may vary. (F,S,SS)

SYA 7980 Ph.D. Dissertation (1-12). Hours taken by students to work on the dissertation under the supervision of a major professor and the doctoral committee. Hours may vary. Prereguisites: Permission of Major Professor and Doctoral Candidacy. (F,S)

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

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

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

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

Graduate standing or Permission of the instructor. (F)

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

SYD 6616 Comparative Stratification Seminar (3). Comparative analysis of causes and consequences of contemporary inequality in an international context. Emphasizes theoretical and methodological approaches to comparative case studies. Prerequisites: Graduate standing or Permission of the instructor, (S)

SVD 6625 South Florida Sociocultural Systems (3). The sociological and anthropological analysis of South Florida. Presents tools for regional study including demography, cultural ecology, and ethnic group-centered symbolic systems. Prerequisite: Graduate standing or permission of the instructor. (F)

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

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

SYD 6715 Comparative Adolescent Cultures (3). Examines the adolescent cultures of different ethnic, class, and national groups from sociological anthropological and perspective. The primary focus is on how adolescents construct their own social groups and what meaning they attribute to these constructions. Prerequisite: Graduate standing.

SYD 6816 Advanced Sociological Theories of Gender (3). Examines sociological theory as it deals with

gender from a feminist perspective. Prerequisite: Graduate standing. (S)

SYD 6901 Special Topics in Sociology (3). An examination of specific themes and topics in sociology. The theme amy vary from semester to semester. With a change in content, the course may be repeated. Prerequisite: SYA 6125 and SYA 6126 or permission of the instructor.

SYD 7903 Directed Readings (1-9). Readings under the direction of a faculty member focusing on one of the tracks in the Ph.D. program. Hours may vary. (F,S,SS)

SYG 5XXX Advanced World Jewish Communities (3). Overview of Jewish communities throughout the world. Analyzes their origins, migrations, demographic and social characteristics. Covers Ashkenazi, Sephardi, and Prerequisite: Oriental communities. Graduate Standing.

SYG 6932 Special Topics in Disaster Studies (3). Case studies of major disasters used to explore topics such as impact of gender, class, ethnicity, and age on vulnerability, response, and outcome; effects of larger political and economic systems; and relationship to social change. May be repeated with change of topic.

SYO 6135 Families and Social Change (3). Comparative study of the family as an institution adapting to social and economic conditions. Cultural variation in marriage, parenthood and gender roles. Historical influences on the pluralistic American family. Credit for both SYO 4130 and SYO 6135 will not be granted. Prerequisite: Graduate stand-ing or permission of the instructor. (F)

SYO 6306 Political Sociology (3). Examines social relations of power in groups, organizations, and national and global structures; also patterns of state formation, state-society relations, and political sources of change. Prerequisite: Graduate standing. (S)

SYO 6405 Graduate Medical Sociology (3). Examination of the social significance of health, illness, and medicine in the U.S. as compared to other societies. Includes disease type and distribution as well as a critique of health care professions, organizations, and policies. Prerequisite: Graduate standing. (F)

SYO 6415 Sociology of Mental Health (3). Examination of the social and social psychological processes that influence mental health and illness. Analysis of the social consequences of mental illness including issues associated with social mobility and stigma. Prerequisites: Graduate standing.

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

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

SYP 6739 Seminar: Ethnic Minority Aging in U.S. (3). Sociological aging perspective on among racial/ethnic minority groups in U.S. Includes social, demographic, and cultural influences on the status of minority elders in the areas of family and community.

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

Statistics

Jie Mi, Professor and Chairperson
Carlos W. Brain, Associate Professor
and Graduate Program Director
Ling Chen, Associate Professor
Zhenmin Chen, Associate Professor
Gauri L. Ghai, Associate Professor
Ramon Gomez, Instructor
Sneh Gulati, Associate Professor
Ina Parks Howell, Lecturer
Golam Kibria, Assistant Professor
Laura Reisert, Instructor
Samuel S. Shapiro, Professor
Hassan Zahedi-Jasbi, Associate

Master of Science in Statistics

Professor

The Master of Science in Statistics at Florida International University is primarily an applied statistics program. It offers a balance of statistical theory, statistical methodology, and optionally, an area application concentration. The program offers a thesis option and a non-thesis option. Regardless of the concentration or thesis option, the program requires a total of 36 credithours as follows: six core courses (18 hours), four elective courses or an area of concentration (12 hours), and either a thesis (6 hours) or two additional elective courses (6 hours) and a comprehensive examination.

Admission Requirements

To be admitted into the program, applicants must meet the university's graduate admission requirements (see Office of Admissions in this catalog) and the following departmental requirements:

- Bachelor's degree in statistics, mathematics, or in a related field from an accredited university or college. A bachelor's degree in some other discipline is also acceptable provided the applicant has a suitable mathematics background.
- A 3.0 or higher (on a 4-point scale) GPA in mathematics and statistics courses.
- Three letters of recommendation from persons familiar with the applicant's academic qualifications.
- Approval of the departmental graduate committee.

Core Courses: (18)

STA 6244 Data Analysis I STA 6246 Linear Models STA 6247 Data Analysis II STA 6326 Mathematical Statistics I STA 6327 Mathematical

A 6327 Mathematical Statistics II

STA 5206 Design of Experiments

Elective Courses: (12)

A student may select four courses from Lists A, B, and C or may opt for an area of concentration (see below).

Concentration Area: (12)

Students interested in a concentration in Biostatistics/Environmetrics must select two courses from List A and two track-related electives. At least one of these electives must be from outside the department.

Students interested in a concentration in Reliability Analysis/Quality Control must select two courses from List B and two track-related electives. At least one of these electives must be from outside the department.

All electives must be approved by the Graduate Program Director.

List A: Biostatistics/Environmetrics

STA 6176 Biostatistics
STA 6678 Environmental
Statistics

STA 5826 Stochastic Processes

List B: Reliability Analysis/ Quality Control

STA 5676 Reliability Engineering STA 5666 Advanced Quality Control

STA 5826 Stochastic Processes

List C: Elective Statistics Courses

STA 5207 Topics in Design of Experiments

STA 5236 Regression Analysis

STA 5507 Nonparametric Methods STA 5906 Independent Study

STA 6505 Analysis of Categorical

STA 6807 Queueing and Statistical

STA 6940 Supervised Statistical Consulting

STA 7707 Multivariate Methods I STA 7708 Multivariate Methods II

Elective Courses from Outside of the Department:

Elective courses from outside of the department must be approved by the Graduate Program Director.

Thesis Option: (6)

Students opting to write a thesis must enroll in STA 6971, Thesis Research and STA 6972, Master's Thesis (6 credit-hours total).

Non-Thesis Option: (6)

Students who opt not to write a thesis must take two additional elective courses selected from List C or from outside of the department. These courses must be approved by the Graduate Program Director.

Graduation Requirements

- Grade and GPA requirements: a) cumulative GPA of 3.0 or higher in all courses, b) a grade of 'B' or higher in each core course, and c) a grade of 'C' or higher in each concentration or elective course.
- A candidate who opts to write a thesis must successfully defend the thesis orally and have the written thesis approved by his/her thesis committee.
- A candidate who chooses the nonthesis option must take and pass a comprehensive examination.

Students must follow all regulations of the University's Division of Graduate Studies.

Course Description

Definition of Prefixes

STA - Statistics. MAP - Mathematics/Applied.

MAP 5117 Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 2313, COP 2210, MAS 3105; and STA 4322 or STA 3164 or STA 3033.

STA 5105L SPSS Data Analysis Lab (1). Topics include: Entering data from various sources, data checking, descriptive statistics, graphing data, crosstabulations, t-tests, correlation and regression, ANOVA, and reliability. Prerequisite: A statistics course or concurrent enrollment in a statistics course, and graduate standing or permission of the insructor.

STA 5106 Intermediate Statistics I

(3). Power, measures of assoc., measurement, ANOVA: one-way and factorial, between and within subjects expected mean squares, planned comparisons, apriori contrasts, fixed, random, mixed models. This course may be of particular interest to behavioral sciences. Prerequisites: STA 3111 and graduate standing. (F)

STA 5107 Intermediate Statistics II

(3). Correlation and regression both simple and multiple, general linear model, analysis of covariance, analysis of nominal data, analysis of categorical

data. This course may be of particular interest to behavioral sciences. Prerequisite: Permission of the instructor. (S)

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

STA 5206 Design of Experiments I (3). Design and analysis of completely randomized, randomized block, Latin square, factorial, nested and related experiments. Multiple comparisons. Credit for both STA 4202 and STA 5206 will not be granted. Prerequisite: STA 4322 or STA 3164 or STA 3033 or (STA 3163 and STA 4321).

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

STA 5236 Regression Analysis (3). Simple, multiple and polynomial regression, analysis of residuals, model building and other related topics. Credit for both STA 4234 and STA 5236 will not be granted. Prerequisites: STA 3164 or STA 3123 or STA 3112. or STA 6167.

STA 5446-STA 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 2313.

STA 5507 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5507 will not be granted. Prerequisite: First course in statistics.

STA 5666 Advanced Statistical Quality Control (3). Review of statistical methods useful in quality improvement. Statistical process control. Taguchi's and Deming's philosophies. Control charts. Process capability analysis. Acceptance sampling plans. Prerequisities: STA 3033 or STA 3163 or STA 4321 or equivalent.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure prediction of component rates; reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 4322.

STA 5800 Stochastic Processes for Engineers (3). Probability conditional probability distributions of a random variable, bivariate probability distributions. multiple random variables, stationary processes, Poisson and normal processes. Prerequisites: STA 3033; MAC 2313, MAP 2302.

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

STA 5906 Independent Study (1-6). Individual conferences. assigned reading, and reports on independent investigation.

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

STA 6176 Blostatistics (3). Statistical analysis of data encountered in medical sciences. Analysis of count data Kaplan-Meier survival analysis, Cox proportional hazards model, analysis of covariance, logistic regression, etc. Prerequisite: STA 3163 or equivalent.

STA 6244 Data Analysis I (3). Exploratory data analysis; testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 4322, or STA 6327.

STA 6246 Linear Models (3). Introduction to the theory of linear models. Distribution of linear and quadratic functions of normal vectors. Development of inferential procedures for simple and other more complex linear models Prerequisites: MAS 3105, STA 6247, and STA 6327.

STA 6247 Data Analysis II (3). Analysis of variance, regression analysis. Analysis of covariance, quality control, correlation, empirical distributions. Prerequisites: STA 6244 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, Prereqnisite: MAC 2313.

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

STA 6505 Analysis of Categorical Data (3). Analysis of contingency tables, measures of association, logit and loglinear models. Prerequisites: STA 6167 or STA 5107 or STA 5236.

STA 6678 Environmental Stastistics (3). Review of probability theory and probability processes. Bernoulli, Poisson, and normal processes. Dilution of pollutants. Lognormal processes. Prerequisites: STA 3164 and MAC 2312.

STA 6807 Queueing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process. queueing models, statistical models, Prerequisites: Permission of the instructor, MAC 2312 and either STA 3033 or STA 4321.

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

STA 6971 Thesis Research (1-6). Supervised research on theoretical or applied statistics leading to a thesis. Repeatable. Prerequisite: Permission of student's program committee.

STA 6972 Master's Thesis (1-6). Thesis completion and submission in partial fulfillment of Master's degree requirements. Prerequisite: Permission of student's program committee.

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

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

Certificate Programs African-New World Studies Graduate Certificate Program

Carole Boyce Davies, Director of African-New World Studies Program, Professor of English & African-New World Studies

Linda Spears-Bunton, Associate Professor, Education & African-New World Studies, Director of the Graduate Studies

Advisory/Coordinating Committee Heather Andrade, Assistant

Professor, English

Pascale Becel, Associate Professor, Modern Languages

Ken Boodhoo, Associate Professor, International Relations

Jean-Robert Cadely, Assistant Professor, Modern Languages & African-New World Studies

John Clark, Associate Professor, International Relations

Lisa Delpit, Eminent Professor, Urban Education

Marvin Dunn, Associate Professor, Psychology

Mohamed Farouk, Associate Professor, College of Education

Nadine Fernandez, Assistant
Professor, Sociology/Anthropology
Steve Fjellman, Professor, Sociology

& Anthropology

Ivelaw L. Griffith, Professor, Political Science

Tometro Hopkins, Associate Professor, English

Alexander Lichtenstein, Associate Professor, History

Marcia Magnus, Associate Professor, Dietetics & Nutrition

Anthony Maingot, Professor, Sociology / Anthropology

Andrea Mantell-Seidel, Associate Professor, Theater & Dance

Roderick Paul Neumann, Associate Professor, International Relations Akin Ogundiran, Assistant Professor,

History
Valerie Patterson, Assistant Professor,

College of Urban & Public Affairs
Jean Rahler, Associate Professor,
Sociology/ Anthropology and

African-New World Studies, Terry Rey, Assistant Professor, Religious Studies

Robin Sherriff, Assistant Professor, Sociology/Anthropology Vicky Silvera, Library

Alex Stepick III, Professor, Sociology

/ Anthropology
James Sweet, Assistant Professor,

History, African New World Studies
Clarence Taylor, Professor, History
and African-New World Studies
Juan Torres-Pou, Assistant Professor,

Modern Languages

Donna Weir-Soley, Assistant.

Donna Weir-Soley, Assistant Professor, English

The African-New World Studies Certificate Program seeks to provide graduate-level instruction in the diverse field of Africana Studies.

Specifically, the African-New World Studies Certificate program seeks to :

1. Provide an excellent university education, while both challenging and stimulating students/participants to contribute to the development of their communities;

2. Generate new knowledge and research opportunities within the field of Africana Studies.

 Serve the university's external community with special programming to meet educational needs;

4. Foster greater understanding of the global nature of African peoples.

General Requirements (18)

Required Course:

AFA 6325

AFA 5002 African-New World Studies Theory and Methods.

(Offered every fall semester).

The 15 remaining credit hours may be drawn from a variety of courses. The following list represents examples of elective courses appropriate for the completion of the certificate program. Students should consult with advisors since new courses are frequently added, and special topic courses sometimes concern the African Diaspora.

Pedagogy in the African

	Diaspora: Literacy,	
	Culture, and Gender	3
AFH 5905	Readings in African	
	History	3
AFH 5935	Topics in African	
	History	3
ANT 5xxx	Advanced African	
	Diaspora Cultures	3
ANT 5xxx	Representations of	
	Africa and Africans in	
	Films	3
ANT 6319	The African Diaspora:	
	Anthropological	
	Perspectives	3
CPO 6206	Seminar in African	
	Politics	3
FRE 5508	La Francophonie	3
HAI 5235	Haitian Creole Seminar	3

		-
INR 5255	Seminar in African	
	Development	3
INR 6936	Seminar in Inter-	
	American Politics	3
LIT 5359	African Diaspora	
	Women Writers	3
LIT 5358	Black Literature and	
	Literacy/Cultural	
	Theory	3
MUH 5025	History of Popular	
	Music in the United	
	States	3
MUH 5067	Music of the Caribbean	3
REL 5122	African-American	
	Religion	3
REL 5372	African Spirituality	3
REL 5384	Rasta, Vodou, Santeria	3
REL 5488	Theology and Liberation	1
14220.00	Movements	3
SPW 6368	19th Century Spanish-	
	Caribbean	3
SYD 6705	Comparative Analysis o	_
B1D 0.03	Ethnicity and	•
	Race	3
SYP 6734	Seminar: Ethnic	-
511 0/51	Minority Aging in U.S.	3
WOH 5237	The African Diaspora	_
11 011 3237	Since the End Of the	
	Slave Trade	3
WOH 5236	The Transatlantic Slave	_
11 011 3230	Trade and the Making o	f
	the African Diaspora,	
	1441-1807	3
	1741-1007	3

Certificate in Geographic Information Systems

Zhaohui Jennifer Fu, Director, (Library GISRSAL)

Coordinating Committee

Michael McClain, (Environmental Studies)

Dean Whitman, (Earth Sciences)
Fang Zhao, (Civil and Environmental
Engineering)

Esra Ozdenerol, (Landscape Architecture)

Jennifer Gebelein, (International Relations)

Tom Philippi, (Biology)

The Graduate Certificate in Geographic Information Systems provides students with an interdisciplinary background in GIS. The program consists primarily of graduate level courses in Geographic Information Systems with electives in related disciplines such as Biology, Earth Sciences, Civil Engineering, Environmental Studies, International Relations, Landscape Architecture, Public Health, and Urban Planning.

A Geographic Information System (GIS) is a set of computer hardware and software used to organize,

manipulate, and analyze maps and spatial data. GIS is a rapidly developing technology that can be applied to many areas of the natural and social sciences. Applications areas include: Architecture, Engineering, Earth and Environmental Sciences, Economics, Sociology, Political Science, Public Health, and Urban Planning.

There is an increasing demand for GIS specialists in the job marker as a result of advancements in information technology, and the development of spatial/geographic database management programs. Currently, many faculty at FIU in a variety of disciplines are actively engaged in teaching and research in GIS.

For more information on the Certificate in Geographic Information Systems, contact the FIU GIS Coordinator, Zhaohui Jennifer Fu, at the GIS Labroom GL 275D or call (305) 348-3138 or email: fujen@flu.edu, or visit: http://gislab.flu.edu.

Prescribed Courses and Other Requirements

The certificate program will require 18 credits (6 courses) distributed as follows:

Required Courses: (9 credits out of the following)

Introduction to GIS and

Data Analysis

EVR 5935

	Data Allaiyala	,
CGN 5320	GIS Applications	
	for Civil and Environ-	
	mental Engineering	3
	or	
GEO 4XXX	Applications of	
	Geographic	3
IRN 4XXX	Information Systems 3	3
	and	
GLY 5758	GIS and Spatial	
	Analysis for Earth	
	Scientists	3
GLY 5734	Remote Sensing in the	
	Earth Sciences	3

Electives: (9 credits out of the

following)		
CGN 6930	Applied GIS Projects	3
CGN 6325	Advanced GIS for Civil	
	and Environmental	
	Engineering	3
EVR 6329	Watershed Analysis and	
	Management	3
LAA 5XXX	GIS Applications in	
	Landscaping Modeling	3
PCB 5XXX	Spatial Ecology	3
	or	
Up to 3 appro	ved graduate level credits	S

for courses in the departments or

schools of Architecture, Biology, Civil and Environmental Engineering, Computer Science, Earth Sciences, Economics, Environmental Studies, International Relations, Sociology, Statistics, or Public Health.

Latin American and Caribbean Studies Certificate Program

Eduardo A. Gamarra, LACC Director Michael W. Collier, LACC Graduate Program Director

LACC Academic Advisory
Committee

Irma T. Alonso, (Economics)
David B. Bray, (Environmental

Studies)
Victor M. Uribe, (History)

William T. Vickers, (Sociology/ Anthropology)

Offered through the Latin American and Caribbean Center (LACC), this certificate encourages students to take a multidisciplinary approach to the study of Latin America and the Caribbean. The certificate may be awarded to both degree and non-degree seeking students who complete the require-ments. For students pursuing a degree, the certificate is a complement to the student's discipline or major area of For non-degree seeking studies. students, the certificate provides a means for understanding more about Latin America and the Caribbean without pursuing a longer degree program.

Certificate Requirements

- 1. A total of 15 credit hours of graduate course work with a grade of 'B' or higher. Courses must come from the approved Latin American and Caribbean Studies course listing available in the Latin American and Caribbean Center or otherwise be approved by the certificate program faculty advisor.
- Courses must be selected from at least two disciplines.
- 3. An area of concentration may be declared for the graduate certificate. At least three courses with significant Latin American or Caribbean content must be completed to obtain a concentration. Concentrations include: Brazilian Studies, Caribbean Studies, Central American Studies, Cultural Studies, International Business, International Development, International Trade, Mexican Studies, Security Studies, and South American

Studies. Students may also petition to create their own concentration, provided there are sufficient courses.

4. Each student is required to demonstrate reading proficiency in either Spanish or Portuguese, or in another regional language such as French, Haitian Creole, or Dutch when justified by research interests. Proficiency is demonstrated by scoring at least 'intermediate-high' on the ACTFL/ETS exam for Spanish, Portuguese, or French. For other languages, corresponding tests of proficiency and levels of achievement will be required.

NOTE: Intermediate-high on the ACTEL/ETS exam (1-plus on the US government scale) can normally be attained by students with two undergraduate semesters of basic language instruction and at least one undergraduate semester of intermediate (3000/4000 level) instruction. Attainment of the required language proficiency is the responsibility of the student and extra courses to achieve the required proficiency level must be taken outside the certificate curriculum.

Courses approved for the Latin American and Caribbean Studies Certificate are posted each semester on the FIU Class Schedule at http://sis2.fiu.edu/classschedule.

Under Special Programs and Certificate Programs select Latin American & Caribbean Studies. All courses listed from 5000 through 7000 series may be applied to the certificate. Approved courses are also posted each semester outside LACC (DM 353) or are available from the certificate advisor.

Students interested in pursuing a Latin American and Caibbean Studies Certificate should contact the certificate advisor at (305) 348-2894 for an appointment or email MALACS@fiu.edu

Graduate Certificate in Museum Studies

Carol Damian, Chairperson,

Department of Art and Art History

Florida International University Graduate Certificate in Museum Studies is an 18 credit program intended to prepare students for professional employment in historic preservation, systematic biology, collection management, museum work, educational programming, park interpretation and public policy planning. The program offers graduate level courses cross-listed

from associated academic disciplines and special project courses appropriate for specific museum work. Courses are most appropriate for people interested in museum careers and are designed to give a broad overview of museum history as well as a solid grounding in museological theory and practice. In accordance with the mission of FIU, attention is given to issues of diversity and multiculturalism; the relationship of museums to changing populations and interdisciplinary trends in a variety of collecting environments different ranging from the Arts to History, Anthropology, Archaeology, and the

In addition to Core requirements, an internship is required and students are encouraged to pursue a variety of courses of study to address diverse Museum situations. Internships for 6 credits may be done at associated and approved institutions. Several tracks offered through associated departments include a majority of courses online.

Graduate Credits may be applied to an MA in Museum Studies and/or Art History.

Program Requirements (18 credits):

Required Courses: (6 credits) Introduction to Museum ART 5xxx Ethics, Policies and Procedures Introduction to Museum ART 5xxx

AKI SAA	Studies: History and Philosophy of Museums	3
Electives: (6	credits)	
ART 5xxx	Collection and	
•	Conservation	
	Management and	
	Practices	3
ART 5xxx	Non-Profit Business	
	Practices	3
ART 5xxx	Museum Education	3
ART 5xxx	Curatorial Methods and	i
•=	Practices	3
ART 5xxx	Museum Exhibitions:	
	Theory and Practice	3
ART 5xxx	Special Topics in	
	Museum Studies	3
ART 5xxx	Managing Museum	
	Technology	3
HIS 5067	Public History	
	Theoretical and	
	Practical Issues	3
HIS 5084	Museum History	3

Archeology and

Arts

Museum Practices

Grant Writing for the

3

3

HIS 5xxx

MUS 5xxx

MUM 5946	Performance Arts	
	Internship	3
MUM 5715	Performing Arts	
	Production	3
MUM 5705	Advanced Business of	
	Music	3
ACG 5507	Issues and Problems in	
	Accounting for Non-	
	Profit Entitles	3
ARH 5xxx	Internships	6
	or	
Students may	include approved cours	ses
available fro	m associated departmen	nts
of History F	nvironmental Science,	٩rt
History;	Biology, Architectu	re,
Anthropology	With permission	of

Graduate Certificate Program in Religious Studies

Chairperson.

The purpose of the Graduate Certificate Program is to offer an alternative to the MA degree program for students who wish to pursue an organized program of study at the graduate level, but have no need of a degree and wish a shorter term project. Many of these will be older adults seeking to pursue a stimulating course of study for personal satisfaction. Having this certificate program will allow the Department to steer such persons, who frequently now enter the degree program but do not complete the degree, away from the MA and into the Certificate Program.

Requirements

- Students must either have taken the undergraduate course REL 3308 World Religions as a prerequisite before entering the certificate program, or must complete it within the program, usually in the first semester of coursework.
- 2. Students must complete 18 credit hours of graduate level courses in the general area of religion.
- 3. Students must have a minimum GPA of 3.0 in their graduate religion courses.
- 4. Earned grades in the 18 hours of graduate religion courses must be "B" or better; grades of "B-" or below will not be counted toward the 18.
- Students in the Graduate Certificate Program in Religion who wish to transfer into the MA program must meet requirements for matriculation.

Graduate Certificate in Transnational and Regional Studies

Ralph S. Clem, Director, Center for Transnational and Comparative Studies

Coordinating Committee Steven Heine, Associate Director, Center for Transnational and Comparative Studies, Religious Studies and History

Nathan Katz, Religious Studies A. Douglas Kincaid, Sociology Elisabeth Prugl, International Relations

Terry Rey, Religious Studies William Walker III, History

objective is to provide interdisciplinary graduate instruction in international/global studies that require specialization in one of the following main world regions, including Asia, Europe, Middle East, Russia or Central Asia. (Students interested in Latin America or Africa may wish to consult those programs). For more information on the graduate degree, contact the for Transnational Center Comparative Studies, DM telephone (305) 348-6561, fax (305) 348-6562, email: tcs@fiu.cdu or visit our website: www.fiu.edu/~tcs.

The Program requires 15 graduatelevel credit hours (5 courses). Students will be advised by the Program Director and by the committee member with expertise in the region of specialization. Courses must be passed with "B" or better (B- is not acceptable).

Course Requirements: 15 credits

Core Course in Global Studies (3 credits):

A course in comparative or global etudies such as:

studies, such	as:
CPO 5091	Seminar in Comparative
	Politics
ECO 5709	The World Economy
ECP 5704	International Economic
	Problems and Policy
FOW 5587	Comparative Studies
H1S 5289	Comparative History
INR 6017	Comparative Approaches
	to Area Studies and
	Global Issues
MUH 5057	Music of the World
REL 5135	Sects, Cults, and New
	Religions
SYP 5447	Sociology of
	International

Development

Regional Studies Courses (9 credits):

Courses in studies of the speciality region-Asia, Europe, Middle East, Russia, or Central Asia. The courses can be taken in any relevant discipline, but must come from at least two different departments or disciplines.

Directed Research (3 credits): Supervision of an intensive research paper, fieldwork studies, or a comparable in-depth specialized project in studies of the region.

Language Requirements (credits cannot be applied to the certificate): One year of study, or equivalent, in a language appropriate to the speciality region (such as Chinese or Japanese for Asian Studies, Hebrew or Arabic for Middle Eastern Studies).

College of Arts and Sciences

R. Bruce Dunlap Dean Associate Dean, Gisela Casines College Relations Associate Dean, Kelsey Downum Research

Associate Dean. Budget and

Kenneth Furton Planning Associate Dean,

Biscayne Bay Campus, Associate Dean.

Faculty and Graduate Studies Mark Szuchman Director.

Jovce Peterson

Yi Deng

School of Computer Science

Director. School of Music Fredrick Kaufman

Chairpersons and Program Directors:

African-New World

Carole Boyce Davies Studies Carol Damian Art and Art History Biological

James Fourqurean Sciences Stanislaw Wnuk Chemistry

Earth Sciences Rosemary Hickey-Vargas Panagis Liossatos **Economics** Carmela Pinto-McIntire English Joel Heinen Environmental Studies Kenneth Lipartito History Kenneth Rogerson Humanities International

John Clark Relations Latin American

and Caribbean

Eduardo Gamarra Studies Janat Parker Liberal Studies Enrique Villamor Mathematics

Modern Maida Watson Languages Paul Draper Philosophy Stephan Mintz **Physics** Nicol Rae Political Science Marvin Dunn Psychology Nathan Katz Religious Studies Sociology and

Richard Tardanico Anthropology Jie Mi Statistics Theatre and Dance

Women's Suzanna Rose Studies

Leroy Clark

Bayazit, Osman, M.S. (Texas A & M University), Instructor, School of Computer Science

Faculty

Aditya, Ram, Ph.D. (Temple University), Associate Professor, Psychology

Akache, Walid, M.S. (University of Miami), Instructor, School of Computer Science

Aladro, Gerardo, Ph.D. (Pennsylvania State University), Associate Professor, Mathematics

Allen-Hermanson, Sean, Ph.D. (University of Toronto), Assistant Professor, Philosophy

Almiral, Jose, Ph.D. (University of Strathclyde, Scotland), Assistant Professor, Chemistry

Anbarci, Nejat, Ph.D. (The University of Iowa), Associate Professor, Economics

Anderson, William, Ph.D. (Swiss Federal Institute of Technology-Zurich), Assistant Professor, Earth Sciences and Southeast Environmental Research Center

Andrade, Heather, Ph.D. (Rutgers State University), Assistant Professor, English

Apanius, Victor, Ph.D. (University of Pennsylvania), Assistant Professor, Biological Sciences

Apodaca, Claire, Ph.D. (Purdue University), Assistant Professor, International Relations

Arnold, St. George Tucker, Jr., Ph.D. (Stanford University), Associate Professor, English

Arpad, Tori, M.F.A. (University of Arizona), Assistant Professor, Art and Art History

Arraras, Astrid, Ph.D. (Princeton University), Assistant Professor, Political Science

Augenblick, John, D.M.A. (University of Miami), Associate Professor, School of Music

Bahrick, Lorraine, Ph.D. (Cornell University), Professor, Psychology

Baker, Joan L., Ph.D. (University of Washington), Associate Professor, English

Baldor, Aurelio, M.A. (Florida International University), Instructor, Modern Languages

Barrett, Lynn, M.F.A. (University of North Carolina-Greensboro), Professor, English

Barton, David, Ph.D. (University of Cambridge), Professor, School of Computer Science

Becel, Pascale, Ph.D. (University of California-Davis), Associate Professor, Modern Languages

Becker, David, Ph.D. (Massachusetts Institute of Technology), Associate Professor, Chemistry

Beer, Michelle, Ph.D. (University of Pittsburgh), Associate Professor, Philosophy

Bennett, Bradley C., Ph.D. (University of North Carolina-Chapel Hill), Associate Professor, Biological Sciences and Environmental Studies

Berk, Lynn, Ph.D. (Purdue University), Professor, English

Berk, Toby, Ph.D. (Purdue University), Professor Emeritus, School of Computer Science

Bhat, Mahadev, Ph.D. (University of Tennessee-Knoxville), Associate Professor, Environmental Studies

Bidarkota, Prasad, Ph.D. (Ohio State University), Assistant Professor, **Economics**

Bigger, Charles, Ph.D. (Florida State University), Associate Professor, **Biological Sciences**

Boeglin, Werner, Ph.D. (University of Basle, Switzerland), Associate Professor, Physics

Bone, Richard, Ph.D. (University of West Indies, Jamaica), Professor, Physics

Boodhoo, Ken, Ph.D. (University of the West Indies, Jamaica), Associate Professor, International Relations

Bowe, Gregory, M.A. (University of New Hampshire), Assistant Professor, English

Boyce Davies, Carole, Ph.D. (University of Ibadan, Nigeria), Professor, English and Director, African-New World Studies Program

Boyd III, John H., Ph.D. (Indiana University), Associate Professor, **Economics**

Brain, Carlos W., Ph.D. (West Virginia University), Associate Professor, Statistics

Brant, Sharon, M.F.A. (University of Wyoming), Assistant Professor, Art and Art History

Bray, David, Ph.D. (Brown University), Associate Professor, Environmental Studies

Breslin, Thomas A., Ph.D. (University of Virginia), Associate Professor, International Relations and Vice President, Research and Graduate Studies

Brown, Christopher, Ph.D. (University of Delaware), Professor, **Biological Sciences**

- Brown, Jerry, Ph.D. (Cornell University), Associate Professar, Sociology/Anthropology
- Brown, Joann, M.A. (University of Miami), Instructor, Theatre and Dance-Speech Communication Program
- Buckley, Ralph, M.F.A. (Maryland Institute), Professor, Art and Art History
- Bull, Jesse, Ph.D. (University of California-San Diego), Assistant Professor, Economics
- Burke, William, M.F.A. (State University of New York at New Paltz), Professor, Art and Art History
- Burns, Kristine, Ph.D. (Ball State University), Associate Professor, School of Music
- Cadely, Jean-Robert, Ph.D. (Universite du Quebec-Montreal), Associate Professor, Modern Languages
- Cai, Yong, Ph.D. (Nankai University, China), Assistant Professor, Chemistry
- Camayd-Freixas, Erik, Ph.D. (Harvard University), Assistant Professor, Modern Languages
- Campbell, Colton, Ph.D. (University of California-Santa Barbara),
 Associate Professor, Politcal Science
- Campbell, Gary, M.A. (University of Miami), Assistant Professor, School of Music
- Caputo, Nina, Ph.D. (University of California-Berkeley), Assistant Professor, History
- Carson, Jamie, Ph.D. (Michigan State University), Assistant Professor, Political Science
- Carvajal, Manuel, Ph.D. (University of Florida), Professor, Economics Casines, Gisela, Ph.D. (University of
- Florida), Associate Professor, English and Associate Dean, College of Arts and Sciences
- Castells, Ricardo, Ph.D. (Duke University), Associate Professor, Modern Languages
- Chapnik, Jill, M.S. (Barry University), Instructor, School of Computer Science
- Chan, Ivan, B.M. (The Curtis Institute of Music), The Miami String Quartet-in-Residence, School of Music
- Chatfield, David, Ph.D. (University of Minnesota), Associate Professor, Chemistry
- Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences

- Chen, Ling, Ph.D. (American University), Associate Professor, Statistics
- Chen, Shu-Ching, Ph.D., (Purdue University), Assistant Professor, School of Computer Science
- Chen, Z. Sherman, Ph.D. (University of Texas-Dallas), Associate Professor, Statistics
- Chernela, Janet, Ph.D. (Columbia University), Professor, Sociology/Anthropology
- Childers, Daniel, Ph.D. (Louisiana State University), Associate Professor, Biological Sciences and Southeast Environmental Research Center
- Chinelly, Cynthia, M.F.A (University of Arkansas), Lecturer, English
- Chisik, Richard, Ph.D. (Northwestern University), Assistant Professor, Economics
- Chung, Bongkil, Ph.D. (Michigan State University), Professor, Philosophy
- Church, Phillip, M.F.A. (University of California-Irvine), Associate Professor, Theatre and Dance
- Cichon, Elaine, M.A. (University of Miami), Instructor, Theatre and Dance-Speech Communication Program
- Clark, John, Ph.D. (University of Virginia), Associate Professor and Chairperson, International Relations
- Clark, Leroy, Ph.D. (Kent State University), Professor and Chairperson, Theatre and Dance
- Clark, Peter, M.S. (State University of New York-Binghamton), Instructor, School of Computer Science
- Clem, Ralph, Ph.D. (Columbia University), Professor, International Relations and Director, Center for Transnational and Comparative Studies
- Clement, Bradford, Ph.D. (Columbia University), Professor, Earth Sciences
- Cohen, Daniel, Ph.D. (Brandeis University), Associate Professor, History
- Collins, Laurel, Ph.D. (Yale University), Assistant Professor, Earth Sciences and Biological Sciences
- Collins, Timothy, Ph.D. (Yale University), Associate Professor, Biological Sciences
- Cook, N. David, Ph.D. (University of Texas-Austin), Professor, Hisotry Coombs, John, B.A. (Arizona State University), Instructor, History

- Cornejo, Abel, M.F.A., (Brooklyn College, City University of New York), Instructor, Theatre and Dance
- Couper, James, M.A. (Florida State University), Professor, Art and Art History
- Cox, Ronald W., Ph.D. (University of Wisconsin-Madison), Associate Professor, Political Science
- Craumer, Peter, Ph.D. (Columbia University), Associate Professor, International Relations
- Crosby, James, Ph.D. (Yale University), Professor Emeritus, Modern Languages
- Cuciurean, John, Ph.D. (State University of New York at Buffalo), Assistant Professor, School of Music
- Damian, Carol Ph.D. (University of Miami), Associate Professor and Chairperson, Art and Art History
- Darici, Yesim, Ph.D. (University of Missouri), Associate Professor, Physics
- Daruwala, Maneck, Ph.D. (University of Rochester), Associate Professor, English
- Davidovici, Robert, Postgraduate
 Diploma in Violin (The Juilliard
 School), Professor, School of Music
- Debrix, Francois, Ph.D. (Purdue University), Assistant Professor, International Relations
- DeCarli, Laura, Ph.D. (University of California-Los Angles), Assistant Professor, Mathematics
- DeChurch, Leslie, Ph.D. (Florida International University), Assistant Professor, Psychology
- de Alonso, Irma, Ph.D. (University of York, England), Professor, Economics
- de la Cuesta, Leonel A., Ph.D. (The Johns Hopkins University), Professor, Modern Languages
- del Valle, Eduardo, M.F.A. (Brooklyn College, City University of New York), Professor, Art and Art History
- Delgado, Milagros, Ph.D. (University of Miami), Lecturer, Chemistry
- Demos, Marian, Ph.D. (Harvard University), Associate Professor, Humanities and Modern Languages
- Deng, Yi, Ph.D. (University of Pittsburgh), Associate Professor and Director, School of Computer Science
- Donnelly, Maureen, Ph.D. (University of Miami), Associate Professor, Biological Sciences
- Downey, Timothy, M.S. (State University of New York at Albany), Instructor, School of Computer

Science

- Downum, Kelsey, Ph.D. (University of British Columbia), Professor, Biological Sciences and Associate Dean, College of Arts and Sciences
- Draghici, Tedi, Ph.D., (Michigan State University), Assistant Professor, Mathematics
- Draper, Grenville, Ph.D. (University of the West Indies), Professor, Earth Sciences
- Draper, Paul, Ph.D. (University of California-Irvine), Professor and Chairperson, Philosophy
- Dufresne, John, M.F.A. (University of Arkansas), Professor, English
- Duhamel, Denise, M.F.A. (Sarah Lawrence College), Assistant Professor, English
- Duncan, Richard, M.F.A. (Southern Illinois University), Associate Professor, Art and Art History
- Dundas, Robert, M.F.A. (University of Iowa), Assistant Professor, School of Music
- Dunlap, R. Bruce, Ph.D. (Indiana University in Bloomington), Professor, Chemistry and Dean, College of Arts and Sciences
- Dunn, Marvin, Ph.D. (University of Tennessee), Associate Professor and Chairperson, Psychology
- Edward, Julian, Ph.D. (Massachusetts Institute of Technology), Associate Professor, Mathematics
- Ege, Raimund, Ph.D. (Oregon Graduate Center), Associate Professor, School of Computer Science
- Elton, Hugh, Ph.D. (Oxford University), Assistant Professor, History
- Endel, Peggy, Ph.D. (Cornell University), Associate Professor, English
- Erber, Joan, Ph.D. (St. Louis University), Professor, Psychology
- Fanomezantsoa, Mbola, M.S. (State University of New York-Institute of Technology), Instructor, School of Computer Science
- Fernandez, Damian J., Ph.D. (University of Miami), Professor, International Relations
- Fernandez, Nadine, Ph.D. (University of California-Berkeley), Assistant Professor, Sociology/Anthropology
- Fiebig, Rudolf, Ph.D. (University of Munster), Professor, Physics
- Finley, Gordon, Ph.D. (Harvard University), Professor, Psychology Fisher, Jack B., Ph.D. (University of
- Fisher, Jack B., Ph.D. (Universit California-Davis), Research Scientist, Biological Sciences

- Fisher, Ronald, Ph.D. (Ohio State University), Professor, Psychology
- Fjellman, Stephen, Ph.D. (Stanford University), Professor, Sociology/ Anthropology and Associate Dean, Honors College
- Flexser, Arthur, Ph.D. (Stanford University), Associate Professor, Psychology
- Fourqurean, James, Ph.D. (University of Virginia), Associate Professor and Chairperson, Biological Sciences and Southeast Environmental Research Center
- Fox, Domitila, M.S. (University of Miami), Instructor, Mathematics
- Francisco-Ortega, Javier, Ph.D. (University of Birmingham, Great Britain), Assistant Professor, Biological Sciences
- Frazier, Leslie, Ph.D. (Syracuse University), Associate Professor, Psychology
- Free, Mary, Ph.D. (University of Georgia), Associate Professor and Associate Chairperson, English
- Friedman, Rebecca, M.A. (University of Michigan), Assistant Professor, History
- Fuller, Karen, M.F.A. (Florida International University), Instructor and Director of Performing Arts Production, School of Music
- Fulton, Carolyn, Ph.D. (Florida State University), Assistant Professor, Music Education, School of Music
- Furton, Kenneth, Ph.D. (Wayne State University), Professor, Chemistry and Associate Dean, College of Arts and Sciences
- Gaiser, Evelyn, Ph.D. (University of Georgia), Assistant Professor, Biological Sciences
- Gamarra, Eduardo, Ph.D. (University of Pittsburgh), Professor, Political Science and Director, Latin American and Caribbean Center
- Garcia, Orlando, D.M.A. (University of Miami), Professor, School of Music
- Gardinali, Piero, Ph.D. (Texas A&M University), Assistant Professor, Chemistry and Southeast Environmental Research Center
- Gehelein, Jennifer, Ph.D. (University of California-Santa Barbara), Assistant Professor, International Relations
- Gekic, Kemal, M.A. (University of Novi Sad, Yugoslavia), Professor/Artist-in-Residence, School of Music

- George, Robert, Ph.D. (University of Washington), Lecturer, Biological Sciences
- George, Jr., Roby, Ph.D. (University of Cincinnati), Assistant Professor, School of Music
- Gerstman, Bernard, Ph.D. (Princeton University), Professor, Physics
- Gewirtz, Jacob, Ph.D. (State University of Iowa), Professor, Psychology
- Ghai, Gauri, Ph.D. (Iowa State University), Associate Professor, Statistics
- Girard, Chris, Ph.D. (University of Wisconsin-Madison), Associate Professor, Sociology/Anthropology
- Gladwin, Hugh, Ph.D. (Stanford University), Associate Professor, Sociology/Anthropology
- Goldberg, Walter, Ph.D. (University of Miami), Professor, Biological Sciences
- Gomez, Maria Asunciou, Ph.D. (Rutgers University), Assistant Professor, Modern Languages
- Gomez, Mirta, M.F.A. (Brooklyn College, City University of New York), Professor, Art and Art History
- Gomez, Ramon, M.S. (University of Miami), Instructor, Statistics
- Gonzalez-Reigosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology
- Gorman, Susan, Ph.D. (University of Maryland), Instructor, Mathematics
- Grantcharov, Gueo, Ph.D. (Sofia University, Bulgaria), Assistant Professor, Mathematics
- Grau, Christopher, Ph.D. (The John Hopkins University), Assistant Professor, Philosophy
- Graves, A. Palmer, Ph.D. (University of Oklahoma), Lecturer, Chemistry
- Grenier, Guillerma, Ph.D. (University of New Mexico), Professor, Sociology
- Griffith, Ivelaw L., Ph.D. (City University of New York), Professor, Political Science and Dean, Honors College
- Gross, Michael, Ph.D. (Pennsylvania State University), Associate Professor, Earth Sciences
- Gudorf, Christine, Ph.D. (Columbia University), Professor, Religious Studies
- Guernsey, Daniel, Ph.D. (University of Wisconsin-Madison), Assistant Professor, Art and Art History and Humanities
- Gulati, Sneh, Ph.D. (University of South Carolina), Associate Professor, Statistics

- Gummerson, Alan, Ph.D. (University of Wisconsin-Madison), Instructor, Economics
- Hagood, Thomas, Ph.D. (University of Wisconsin-Madison), Associate Professor, Theatre and Dance and Director, Dance Program
- Hall, James, Ph.D. (University of Utah), Professor, English
- Haraguchi, Asuka, M.A. (Florida State University), Instructor, Modern Languages
- Hardy, Kenneth, Ph.D. (Tulane University), Professor, Physics
- Hargitai, Peter, M.F.A. (University of Massachusetts), Lecturer, English
- Harrison, Kimberly, Ph.D. (Louisanna State University), Assistant Professor, English
- Hart, Mitchell, Ph.D. (University of California-Los Angeles), Associate Professor, History
- Hartley, Anne, Ph.D. (Duke University), Assistant Professor, Environmental Studies
- Harvey, Bruce, Ph.D. (Stanford University), Associate Professor, English
- Hauptli, Bruce, Ph.D. (Washington University), Professor, Philosophy
- He, Xudong, Ph.D., (Virginia Polytechnic University), Associate Professor, School of Computer Science
- Heine, Steven, Ph.D. (Temple University), Professor, Religious Studies and Director, Asian Studies Program
- Helnen, Joel, Ph.D. (University of Michigan), Associate Professor and Chairperson, Environmental Studies
- Henley, Kenneth, Ph.D. (University of Virginia), Professor, Philosophy
- Herrera, Rene, Ph.D. (Fordham University), Associate Professor, Biological Sciences
- Herriott, Arthur, Ph.D. (University of Florida), Professor, Chemistry
- Hickey-Vargas, Rosemary, Ph.D. (Massachusetts Institute of Technology) Professor, and Chairperson, Earth Sciences
- Hill, Jonathan, Ph.D. (University of Colorado-Boulder), Assistant Professor, Economics
- Hill, Kevin, Ph.D. (University of Florida), Associate Professor, Political Science
- Hoder-Salmon, Marilyn, Ph.D. (University of New Mexico), Associate Professor, English
- Hollander, Gail, Ph.D. (University of Iowa), Assistant Professor, International Relations

- Hopkins, Tometro, Ph.D. (Indiana University), Associate Professor, English
- Houghton, William, M.S. (University of Georgia), Research Scientist, Biological Sciences
- Howell, Ina Parks, Ph.D. (University of South Florida), Lecturer, Statistics
- Huchingson, James, Ph.D. (Emory University), Associate Professor, Religious Studies
- Hudson, Steven, Ph.D. (University of Chicago), Associate Professor, Mathematics
- Irvine, Kip, M.S. (University of Miami), Instructor, School of Computer Science
- Jaffe, Rudolf, Ph.D. (Indiana University), Professor, Chemistry and Associate Director, Southeast Environmental Research Center
- Jayachandran, Krishnaswamy, Ph.D. (Kansas State University), Assistant Professor, Environmental Studies and Southeast Environmental Research Program
- Jensen, John, Ph.D. (Harvard University), Professor, Modern Languages
- Jochem, Frank, Ph.D. (University of Kiel, Germany), Assistant Professor, Biological Sciences
- Joens, Jeffrey, Ph.D. (Indiana University), Professor, Chemistry
- Johnson, Kenneth, Ph.D. (Brown University), Associate Professor, English and Assistant Vice President, Academic Affairs
- Johnson, Paulette, Ph.D. (Kansas State University), Lecturer, Statistics and Director of Statistical Consulting
- Johnson, Sherry, Ph.D. (University of Florida), Associate Professor, History
- Jones, Ronald, Ph.D. (Oregon State University), Professor, Biological Sciences
- Jorge, Antonio, Ph.D. (Villanova Universidad), Professor, Economics, International Relations, Political Science and Sociology/Anthropology
- Juan-Navarro, Santiago, Ph.D. (Columbia University), Associate Professor, Modern Languages
- Jupille, Joseph, Ph.D. (University of Washington), Assistant Professor, Political Science
- Kafkoulis, George, Ph.D. (California Institute of Technology), Associate Professor, Mathematics
- Kahan, Alan, Ph.D. (University of Chicago), Associate Professor,

- History
- Kaminsky, Howard, Ph.D. (University of Chicago), Professor Emeritus, History
- Karayalcin, Ali Cem, Ph.D. (Columbia University), Associate Professor, Economics
- Karsh, Ellen, M.A. (Florida International University), Instructor, Theatre and Dance-Speech Communication Program
- Kates, Jeanne, M.A. (Florida International University), Instructor, Political Science
- Katz, Nathan, Ph.D. (Temple University), Professor and Chairperson, Religious Studies
- Kaufman, Fredrick, M.M. (Manhattan School of Music), Professor and Director, School of Music
- Kavallieratos, Konstantinos, Ph.D. (Yale University), Assistant Professor, Chemistry
- Keller, Leonard, Ph.D. (Yale University), Professor, Chemistry
- Kibria, Golam, Ph.D. (University of Western Ontario), Assistant Professor, Statistics
- Kincaid, A. Douglas, Ph.D. (The Johns Hopkins University), Associate Professor, Sociology/ Anthropology and Vice Provost, International Studies
- King, Clive, A.T.C., Ph.D. (University of London), Professor, Art and Art History
- Knapp, Jeffrey, M.A. (University of Miami), Instructor, English and Director, Freshman Interest Groups
- Koptur, Suzanne, Ph.D. (University of California-Berkeley), Professor, Biological Sciences
- Kos, Lldia, Ph.D. (University of California-Berkeley), Assistant Professor, Biological Sciences
- Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy
- Kovera, Margaret, Ph.D. (University of Minnesota), Associate Professor, Psychology
- Kowert, Paul, Ph.D. (Cornell University), Associate Professor, International Relations
- Kramer, Laird, Ph.D. (Duke University), Associate Professor, Physics
- Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor, School of Computer Science
- Kretz, Kathleen, M.F.A. (University of Georgia), Associate Professor, Art and Art History

- Kriegel, Lara, Ph.D. (The Johns Hopkins University), Assistant Professor, History
- Kuhn, David N., Ph.D. (University of California-Davis), Associate Professor, Biological Sciences
- Kurtlnes, William, Ph.D. (The Johns Hopkins University), Professor, Psychology
- Landrum, John, Ph.D. (University of Southern California), Professor, Chemistry
- Langer, Lilly, Ph.D. (University of Miami), Associate Professor, Sociology/Anthropology
- Larson, Erik, Ph.D. (New York University), Associate Professor, Religious Studies
- Lavender, Abraham, Ph.D. (University of Maryland), Professor, Sociology/Anthropology
- Leatherman, Stephen P., Ph.D (University of Virginia), Professor, Environmental Studies and Director, International Hurricane Center
- Leckband, Mark, Ph.D. (Purdue University) Associate Professor, Mathematics
- Lee, David, Ph.D. (Rutgers University), Professor, Biological Sciences
- Lees, Watson, Ph.D. (Harvard University), Associate Professor, Chemistry
- Leness, Thomas, Ph.D. (Columbia University), Associate Professor, Mathematics
- Leng, Fenfel, Ph.D. (University of Mississippi), Assistant Professor, Chemistry
- Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/Anthropology
- Levitt, Mary, Ph.D. (Syracuse University), Professor, Psychology
- Li, Bao Qin, Ph.D. (University of Maryland), Associate Professor, Mathematics
- Lickliter, Robert, Ph.D. (University of California-Davis), Professor, Psychology
- Llfshitz, Felice, Ph.D. (Columbia University), Associate Professor, History
- Llossatos, Panagis, Ph.D. (University of Pennsylvania), Professor and Chairperson, Economics
- Lipartito, Kenneth, Ph.D. (The Johns Hopkins University), Professor, and Chairperson, History
- Lipner, Kenneth, Ph.D. (Rutgers University), Associate Professor, Economics

- Longoria, Jose, Ph.D. (University of Texas-Dallas), Professor, Earth Sciences
- Lopez de la Vega, Ramon, Ph.D. (University of Miami), Associate Professor, Chemistry
- Lowery, Shearon, Ph.D. (Washington State University), Associate Professor, Sociology/ Anthropology
- Lund, Gary, B.F.A. (Florida International University), Instructor, Theatre and Dance
- MacDonald, Charles, Ph.D. (University of Virginia), Professor, International Relations
- MacFarlane, Andrew W., Ph.D. (Harvard University), Associate Professor, Earth Sciences
- Machonis, Peter A., Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages
- Maguire, William, M.S. (Illinois Institute of Technology), Professor, Art and Art History
- Mahler, Sarah, Ph.D. (Columbia University), Associate Professor, Sociology/Anthropology
- Maingot, Anthony, Ph.D. (University of Florida), Professor, Sociology/Anthropology
- Makemson, John, Ph.D. (Washington State University), Professor, Biological Sciences
- Marcus, Phillip, Ph.D. (Harvard University), Professor, English
- Markowitz, Peter, Ph.D. (College of William and Mary), Associate Professor, Physics
- Martin, Felix, Ph.D. (Columbia University), Assistant Professor, International Relations
- Martin, Kathleen, Ph.D. (Bryn Mawr College), Associate Professor, Sociology/Anthropology
- Martin, M. Gregory, M.M. (James Madison University), Instructor, School of Music
- Martinez, Juan A., Ph.D. (Florida State University), Associate Professor, Art and Art History
- Mathee, Kalal, Ph.D. (University of Tennessee-Memphis), Assistant Professor, Biological Sciences
- Mau, James A., Ph.D. (University of California-Los Angeles), Professor, Sociology/ Anthropology
- Maurrasse, Florentin, Ph.D. (Columbia University), Professor, Earth Sciences
- Maxwell, Oren, Ph.D. (State University of New York at Stony Brook), Professor, Physics

- McClain, Michael, Ph.D. (University of Washington), Assistant Professor, Environmental Studies
- McCormack, Kathleen, Ph.D. (University of Miami), Associate Professor, English
- McCoy, Diana, M.A. (Case Western Reserve University), Instructor, Mathematics
- McElfresh, Clair, D.M.A. (Case Western Reserve University), Professor Emeritus, School of Music
- McGrath, Campbell, M.F.A. (Columbia University), Patricia and Phillip Frost Professor in English
- McIntire, Carmela Pinto, Ph.D. (Michigan State University), Associate Professor and Chairperson, English
- McKinley, Kathryn, Ph.D. (University of Delaware), Associate Professor, English
- Meissner, Christian, Ph. D. (Florida State University), Assistant Professor, Psychology
- Melchior, Mary Beth, Ph.D. (University of Maryland-College Park), Assistant Professor, Politcal Science
- Meng Robinson, Cathy, M.M. (San Francisco Conservatory of Music), Miami String Quartet-in-Residence, School of Music
- Mesbahi, Mohiaddin, Ph.D. (University of Miami), Associate Professor, International Relations
- Meziani, Abdelhamid, Ph.D. (Rutgers University), Professor, Mathematics
- Mi, Jie, Ph.D. (University of Pittsburgh), Professor and Chairperson, Statistics
- Milani, Masoud, Ph.D. (University of Central Florida), Associate Professor, School of Computer Science
- Milbauer, Asher, Ph.D. (University of Washington-Seattle), Associate Professor, English
- Mintz, Stephan, Ph.D. (The Johns Hopkins University), Professor and Chairperson, Physics
- Montgomery, Marilyn, Ph.D. (Texas Tech University), Assistant Professor, Psychology
- Morcillo, Aurora, Ph.D. (University of New Mexico), Associate Professor, History and Women's Studies
- Morgan, Dahlia, Diplomate of College Teaching (University of Florida), Professor, Art and Art History, Director of The Art Museum

- Moran, Gary, Ph.D. (Katholieke University, Nijmegan, Netherlands, Professor, Psychology
- Moreno, Dario, Ph.D. (University of Southern California), Associate Professor, Political Science
- Morrow, Betty, Ph.D. (University of Miami), Professor Emeritus, Sociology/Anthropology
- Mullen, Paul, Ph.D. (University of Pittsburgh), Assistant Professor, Political Science
- Nadel, Richard, M.S. (Northwestern University), Instructor, Mathematics Narasimhan, Glri, Ph.D. (University
- of Wisconsin-Madison), Associate Professor, School of Computer Science
- Narayanan, Rajamani, Ph.D. (University of California-Davis), Assistant Professor, Physics
- Navlakha, Jainendra, Ph.D. (Case Western Reserve University), Professor, School of Computer Science
- Neal, Leslie, M.A. (Florida State University), Associate Professor, Theatre and Dance
- Nelson, Brian, Ph.D. (University of California-Riverside), Associate Professor, Political Science
- Neumann, Roderick P., Ph.D. (University of California-Berkeley), Associate Professor, International Relations
- Northup, Lesley, Ph.D. (Catholic University), Associate Professor, Religious Studies
- Oberbauer, Steven, Ph.D. (Duke University), Professor, Biological Sciences
- Ogundiran, Akin, Ph.D. (Boston University), Assistant Professor, History
- Okubo, Case, Ph.D. (University of Guelph), Associate Professor, Biological Sciences
- Olsen, Geoffrey, Art Teacher's Diploma, (University of Wales, U.K.), Associate Professor, Art and Art History
- Olson, Richard, Ph.D. (University of Oregon), Professor, Political Science
- Onuf, Nicholas, Ph.D. (The Johns Hopkins University), Professor, International Relations
- Orta, Michael, M.A. (University of Miami), Assistant Professor, School of Music
- O'Nell, Kevin, Ph.D. (University of Nebraska), Assistant Professor, Psychology

- O'Shea, Kevin E., Ph.D. (University of California-Los Angeles), Associate Professor, Chemistry
- Parker, Janat, Ph.D. (University of California-Berkeley), Professor, Psychology and Director of Liberal Studies
- Parker, John, Ph.D. (University of California-Berkeley), Professor, Environmental Studies and Chemistry
- Pasztor, Ana, DRN (Darmstadt University, West Germany), Professor, School of Computer Science
- Patrouch, Joseph F., Ph.D. (University of California-Berkeley), Associate Professor, History
- Patterson, Chauncey, B.M. (The Curtis Institute of Music), Miami String Quartet-in-Residence, School of Music
- Pelin, Alexandru, Ph.D. (University of Pennsylvania), Associate Professor, School of Computer Science
- Perez, Lisandro, Ph.D. (University of Florida), Professor, Sociology/ Anthropology, and Director of Cuban Research Institute
- Perez-Stable, Marifeli, Ph.D. (State University of New York-Stony Brook), Professor, Sociology/Anthropology
- Pestalna, Norman, M.S. (Pennsylvania State University), Instructor, School of Computer Science
- Peterson, Brian, Ph.D. (University of Wisconsin-Madison), Associate Professor, History
- Peterson, Joyce, Ph.D. (University of Wisconsin-Madison), Associate Professor, History and Associate Dean, College of Arts and Sciences
- Phillipl, Thomas, Ph.D. (University of Utah), Assistant Professor, Biological Sciences
- Pitzer, Thomas, M.S. (Auburn University), Instructor, Biological Sciences
- Pliske, Thomas, Ph.D. (Cornell University), Lecturer, Biological Sciences and Environmental Studies
- Power, Tlmothy, Ph.D. (University of Norte Dame), Associate Professor, Political Science
- Prabhakaran, Nagarajan, Ph.D. (University of Queenland), Associate Professor, School of Computer Science
- Price, Patricia, Ph.D. (University of Washington), Assistant Professor, International Relations

- Price, Rene Mari, Ph.D. (University of Miami), Assistant Professor, Earth Sciences and Southeast Environmental Research Center
- Prugl, Elizabeth, Ph.D. (The American University), Associate Professor, International Relations
- Pyron, Darden, Ph.D. (University of Virginia), Professor, History
- Quirke, Martin, Ph.D. (University of Liverpool), Professor, Chemistry
- Rae, Nicol, D.Phil. (Oxford University), Professor and Chairperson, Political Science
- Rahier, Jean, Ph.D. (University of Paris X-Nanterre), Associate Professor, Sociology/Anthropology
- Ramsamujh, Taje, Ph.D. (California Institute of Technology), Associate
- Professor, Mathematics
 Rand, Gary, Ph.D. (Texas A & M
 University), Associate Professor,
 Environmental Studies and
 Southeast Environmental Research
 Center
- Ratner, Robert, M.A. (University of Miami), Instructor, English
- Raue, Brian, Ph.D. (Indiana University), Associate Professor, Physics
- Reln, Kathleen, Ph.D. (University of Miami), Assistant Professor, Chemistry
- Reinhold, Jorg, Ph.D., (Technische Universitaet Munchen), Assistant Professor, Physics
- Reisert, Laura, M.S. (University of Florida), Instructor, Statistics
- Rey, Terry, Ph.D. (Temple University), Assistant Professor, Religious Studies
- Richards, Jennsfer, Ph.D. (University of California-Berkeley), Professor, Biological Sciences
- Richardson, Laurie, Ph.D. (University of Oregon), Associate Professor, Biological Sciences
- Rishe, Naphtali, Ph.D. (Tel Aviv University, Israel), Professor, School of Computer Science
- Ritter, David, Ph.D. (Louisiana State University), Associate Professor, Mathematics
- Robertson, Stewart, Director of Music Education (Royal Scottish Academy), Professor and Artist-in-Residence, School of Music
- Robinson, Keith, B.M. (The Curtis Institute of Music), Miami String Quartet-in-Residence, School of Music
- Robinson, Wayne, M.F.A. (National Theatre Conservatory), Associate Professor, Theatre and Dance

- Roca, Ana, D.A. (University of Miami), Professor, Modern Languages
- Rochelson, Meri-Jane, Ph.D. (University of Chicago), Associate Professor, English
- Rock, Howard, Ph.D. (New York University), Professor, History
- Rogerson, Kenneth, Ph.D. (University of California-San Diego), Professor, Philosophy and Director of Humanities
- Rohm, Joseph, Ph.D. (Florida State University), Associate Professor, School of Music
- Roller, Barbra, Ph.D. (University of Pennsylvania), Lecturer, Biological Sciences
- Rose, Suzanna, Ph.D. (University of Pittsburgh, Professor, Psychology and Director of Women's Studies
- Rosenberg, Gene, Ph.D. (Yale University), Associate Chairperson, Biological Sciences
- Rosenberg, Mark, Ph.D. (University of Pittsburgh), Professor, Political Science, and University Provost,
- Rosenthal, Michael, M.S. (University of Miami), Instructor, Mathematics
- Rotton, James, Ph.D. (Purdue University), Associate Professor, Psychology
- Roy, Dev, Ph.D. (University of Rochester), Associate Professor, Mathematics
- Rubin, Richard, Ph.D. (Washington University), Associate Professor, Mathematics
- Rukimbira, Philippe, Ph.D. (Pennsylvania State University), Associate Professor, Mathematics
- Sabucedo, Alberto, Ph.D. (Florida International University), Lecturer, Forensic Science Programs, Chemistry
- Salazar-Carrillo, Jorge, Ph.D. (University of California-Berkeley), Professor, Economics and Director, Center of Economic Research
- Salokar, Rebecca, Ph.D. (Syracuse University), Associate Professor, Political Science
- Salvador, Miguel, D.M.A. (University of Miami), Associate Professor, School of Music
- Sanders, Roger, Ph.D. (University of Texas-Austin), Research Scientist, Biological Sciences
- Sandoval, Arturo, Superior Level (National School of Art, Havana, Cuba), Professor, School of Music
- Sargsian, Mlsak, Ph.D. (Yerevan Physics Institute), Assistant Professor, Physics

- Saxena, Surenda, Ph.D. (University of Uppsala, Sweden), Professor, Earth Sciences and Director, Center for the Study of Matter Under Extreme Conditions
- Scattone, Raymond, Ph.D. (University of Delaware), Assistant Professor, Environmental Studies
- Schriner, Brian, M.A. (University of Miami), Instructor, Theatre and Dance-Speech Communcation Program
- Schwartz, Bennett, Ph.D. (Dartmouth College), Associate Professor, Psychology
- Schwartz, Richard, Ph.D. (University of Chicago), Professor, English
 Seidel, Andrea, D.A. (New York
- University), Associate Professor, Theatre and Dance
- Sen, Gautam, Ph.D. (University of Texas-Dallas), Professor, Earth Sciences and Director, Florida Center for Analitical Electron Microscopy
- Shapiro, Samuel S., Ph.D. (Rutgers University), Professor, Statistics
- Shaw, Gregory, M.S. (Barry University), Instructor, School of Computer Science
- Sheldon, John, Ph.D. (Texas A&M University), Professor, Physics
- Sheriff, Robin, Ph.D. (City University of New York), Assistant Professor, Sociology/Anthroplogy
- Shershin, 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), Professor, Psychology and Director, Child and Family Psychosocial Research Center
- Silverstein, Ronn, M.A. (Sir George Williams University, Montreal), Instructor, English
- Simpson, Caroline, Ph.D. (University of Florida), Associate Professor, Physics
- Skow, Marilyn, M.Ph. (Columbia University), Associate Professor, Theatre and Dance
- Smith Geoffrey, Ph.D., (Cornell University), Associate Professor, School of Computer Science
- Smith, Joslyn, M.S. (University of New Brunswick), Instructor, School of Computer Science
- Smith, Katherine, Ph.D. (University of Connecticut), Assistant Professor, English

- Smith, Sylvia, Ph.D. (University of Miami), Professor, Biological Sciences
- Sprechman, Ellen, Ph.D. (University of Miami), Lecturer, English
- Stack, John, Jr., Ph.D. (University of Denver), Professor, Political Science and Director, Institute for Public Policy and Citizenship Studies
- Standiford, Lester, Ph.D. (University of Utah), Professor, English and Director, Creative Writing Program
- Stepick, Alex, Ph.D. (University of California-Irvine), Professor, Sociology/Anthropology and Director, Ethnicity and Immigration Institute
- Stiehm, Judith, Ph.D. (Columbia University), Professor, Political Science
- Stier, Oren, Ph.D. (University of California-Santa Barbara), Assistant Professor, Religious Studies
- Stoddard, Philip D., Ph.D. (University of Washington), Associate Professor, Biological Sciences
- Sugg, Richard, Ph.D. (University of Florida), Professor, English
- Sukop, Michael, Ph.D. (University of Kentucky), Assistant Professor, Earth Sciences
- Sun, Wei, Ph.D. (University of Illinois-Chicago Circle), Associate Professor, School of Computer Science
- Sutton, James M., Ph.D (Yale University), Associate Professor, English
- Sweet, James, Ph.D. (City University of New York), Assistant Professor, History
- Syropoulos, Constantinos, Ph.D. (Yale University), Associate Professor, Economics
- Szuchman, Mark, Ph.D. (University of Texas-Austin), Professor, History and Associate Dean, College of Arts and Sciences
- Tachim Medjo, Theordore, Ph.D. (University of Paris), Assistant Professor, Mathematics
- Tardanico, Richard, Ph.D. (The Johns Hopkins University), Associate Professor and Chariperson, Sociology/ Anthropology
- Taylor, Clarence, Ph.D. (Syracuse University), Professor, History
- Tcheugoue Tebou, Louis, Ph.D. (University of Metz, France), Assistant Professor, Mathematics

- Thomakos, Dimitrios, Ph. D., (Columbia University). Assistant Professor. Economics
- Thompson, Ellen, Ph.D. (University of Maryland), Assistant Professor, English
- Timlick, Lesley-Ann, M.F.A. (University of California-Davis), Associate Professor, Theatre and Dance
- Torres, Manuel, Ph.D. (University of New Mexico), Professor, Art and Art History
- Torres-Pou, Juan, Ph.D. (Rutgers University), Associate Professor, Modern Languages
- Tracey, Martin, Ph.D. (Brown University), Professor, Biological Sciences
- Trexler, Joel C., Ph.D. (Florida State University), Associate Professor, Biological Sciences
- Tuhman, Jonathan, Ph.D. (Pennsylvania State University), Associate Professor, Psychology
- Uribe, Victor, Ph.D. (University of Pittsburgh), Assistant Professor, History
- Van Hamme, Walter, Ph.D. (University of Ghent, Belgium), Professor, Physics
- Vickers, William, Ph.D. (University of Florida), Professor, Sociology/ Anthropology
- Villamor, Enrique, Ph.D. (Washington University), Professor and Chairperson, Mathematics
- Viswesvaran, Chockalingam, Ph.D. (University of Iowa), Associate Professor, Psychology
- Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, School of Music
- Wakefield, Daniel, B.A. (Columbia College), Lecturer and Writer-in-Residence, English
- Walker, Charlyne, Ph.D. (Barry University), Instructor, School of Computer Science and Director of Educational Technology, Dean's Office
- Walker III, William, Ph.D. (University of California-Santa Barbara), Professor, History
- Wang, Tao, Ph.D. (The Johns Hopkins University), Assistant Professor, Economics
- Wang, Xuewen, Ph.D. (Iowa State University), Associate Professor, Physics
- Warren, Christopher, D.A. (Lehigh University), Associate Professor, Political Science
- Warren, Paul, Ph.D. (University of Wisconsin-Madison), Associate

- Professor, Philosophy
- Watson, Donald, Ph.D. (University of Virginia), Professor, English
- Watson-Espener, Maida, Ph.D. (University of Florida), Professor and Chairperson, Modern Languages
- Watts, Barbara, Ph.D. (University of Virginia), Associate Professor, Art and Art History
- Webb, James, Ph.D. (University of Florida), Associate Professor, Physics
- Weeks, Ophelia, Ph.D. (Howard University), Associate Professor, Biological Sciences
- Weir, Donna, Ph.D. (University of California-Berkeley), Assistant Professor, English
- Weiss, Mark, Ph.D. (Princeton), Professor, School of Computer Science
- Weitz, Barhara, M.S. (Florida International University), Instructor, English
- Welch, Marcelle, Ph.D. (University of Michigan), Professor, Modern Languages and Associate Director of Liberal Studies
- West, Lois, Ph.D. University of California-Berkeley), Associate Professor, Sociology/ Anthropology
- Whitman, Dean, Ph.D. (Cornell University), Associate Professor, Earth Sciences
- Wilkins, Mira, Ph.D. (University of Cambridge). Professor, Economics
- Willumsen, Maria, Ph.D. (Cornell University), Associate Professor, Economics
- Winkle, Stephen, Ph.D. (University of California-Berkeley), Associate Professor, Chemistry
- Wnuk, Stanislaw, Ph.D. (Adam Michiewicz University, Poland), Associate Professor and Chairperson, Chemistry
- Wolfe, Gregory Baker, Ph.D. (The Fletcher School of Law and Diplomacy), Professor Emeritus, International Relations
- Wood, Kirsten, Ph.D. (University of Pennsylvania), Assistant Professor, History
- Yavas, Feryal, Ph.D. (University of Kansas), Lecturer, English and Director, Linguistics
- Yavas, Mehmet, Ph.D. (University of Kansas), Professor, English
- Young, Craig, M.F.A. (Virginia Technological University), Assistant Professor, Department of Theatre and Dance

- Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages
- Zahedi-Jashi, Hassan, Ph.D. (University of California- Riverside), Associate Professor, Statistics
- Zalkikar, Jyoti N., Ph.D. (University of California-Santa Barbara), Associate Professor, Statistics
- Zarger, Rehecca, Ph.D. (University of Georgia), Assistant Professor, Environmental Studies
- Zhang, Chi, M.S. (Northeastern University), Instructor, School of Computer Science
- Zhang, Jlandl, Ph.D. (Syracuse University), Assistant Professor, Physics
- Zhu, Yifu, Ph.D. (University of Virginia), Associate Professor, Physics
- Zweihel, John, Ph.D. (Columbia University), Associate Professor, Mathematics

College of Business Administration

College of Business Administration Alvah H. Chapman, Jr., Graduate School of Business

Mission Statement

The Chapman School in the College of Business Administration exists to create enduring educational value for our students, for our alumni, and for the business, professional, and academic communities we serve.

For our students—whom we prepare to succeed in a rapidly changing, technology-driven global business environ-

For our alumni—to whom we provide opportunities for continuing professional development and a legacy that appreciates as our excellence grows:

For the business and professional communities—to whom we offer knowledgeable graduates, educational programs, research, and collaborative projects;

For the academic community—to whom we bring new knowledge through high-quality research and the development of future scholars.

The Alvah H. Chapman Jr., Graduate Business School is a school distinguished among urban public business schools as a center for global business education, technology, and research. Our most noteworthy teaching and research expertise lies in the business arenas linking South Florida, Latin America, and the world economy.

offers College itself The undergraduate, graduate, professional education, customized training, and several certification programs to traditional and nontraditional students and to enterprises around the world. While continuing to meet the needs of students in the South Florida community, we are intensifying our educational service delivery to international students and enterprises. especially those in Latin America.

In all of our programs, we strive to instill in students a profound understanding of the changing nature of international business in an integrated and digital global economy. We ensure they are well versed in the impact information technology is having on how enterprises are organized and managed and on how products and services are created and marketed. We provide them with a solid grasp of business processes, the

ability to think critically and to solve problems ethically, and the sense to conduct themselves with integrity and within the context of social and environmental responsibility. We foster their commitment to life-long learning in a dynamic, complex, and competitive world.

Our faculty engage in basic and applied research and in instructional development to contribute not only to the general knowledge base in the field of business but also to the ways in which this knowledge is created and shared. The College boasts a state-of-the-art information technology infrastructure that enables us to provide leading edge instruction and research, including online course delivery. At the same time, our IT investment supports our ongoing curricular innovation in related fields like enterprise-wide computing and logistics.

Organization

The College is organized into the Alvah H. Chapman, Jr., Graduate School of Business, the School of Accounting and the Departments of Decision Sciences and Information Systems, Finance, Management and International Business, and Marketing.

The College also houses several centers of excellence dedicated to teaching, research, and service. These include the Jerome Bain Real Estate Institute, the Ryder Center for Supply Chain Systems, the Knight Ridder Center for Excellence in Management, the Center for Management Development/Office of Professional Education, and the Center for International Business Education and Research.

Degree Programs

The College of Business Administration (CBA) offers academic programs
leading to the undergraduate degrees of
Bachelor of Business Administration
(BBA) and Bachelor of Accounting
(BAcc) and to the graduate degrees of
Master of Accounting (MAcc), Master
of International Business (MIB) Master
of Business Administration (MBA),
Master of Science in Finance (MSF),
Master of Science in Management with
a track in Information Systems
(MSMIS), Master of Science in

Taxation (MST), Executive Master of Science in Taxation (EMST), Master of Science in Management with a Hurnan Resources Track (MSM-HR), and Doctor of Philosophy in Business Administration (Ph.D.).

Master's Degree Programs Admission Requirements

To be eligible for admission to a Master's degree program in the Chapman School, students must:

I. Meet the general University requirements for admission to a graduate degree program;

Hold a Bachelor's degree from an accredited college or university;

3. Show high promise of success in graduate studies as determined by the faculty based upon a combination of the Graduate Management Admission Test (GMAT) score or the Graduate Record Exam (GRE) score and the upper-division grade point average (GPA):

4. If applicant is an international student whose native language is not English, he/she must have a minimum score of 550 on the paper-based TOEFL, 213 on the computer-based TOEFL, or an equivalent score on a comparable examination. [Students should study the "General Admission" requirements for foreign students in the "Admissions" section of this catalog];

 Be in good standing with all previously-attended colleges and universities.

Additional requirements vary by the degree program.

Application Procedures

To apply for admission to graduate study in the Chapman School, prospective students must:

1. Submit a Graduate Application for Admission to the University's Graduate Admissions Office. Application forms will be mailed upon request or can be downloaded from the Internet at (www.fu..cdu/gradadm). The on-line application can also be accessed through this address. The admission process may take as long as two months after the University receives a student's application, depending upon the time involved in obtaining transcripts and test scores. Students are encouraged to apply early.

2. Have a copy of the official transcripts of all previously-earned college or university credits sent from the formerly-attended institution(s) to the University's Graduate Admissions Office. Copies submitted directly by student applicants will not be accepted.

3. Submit scores on the Graduate Management Admissions Test (GMAT) or Graduate Record Examin-ation (GRE), administered by the Educational Testing Service (ETS), Box 966, Princeton, New Jersey 08540. Scores must be submitted by the ETS. Registration forms will be mailed upon request. Have the ETS submit TOEFL scores as well, if applicable.

For additional requirements, consult individual program offices listed below.

Readmission

Students who are pursuing a graduate degree in the Chapman School but who have not completed any course at the University for three consecutive semesters (including summer) must apply for readmission. If readmitted, such students must comply with the University's and Chapman School's degree program requirements in effect at the time of readmission.

Transfer Credit

A student may receive permission to transfer up to a maximum of six semester hours of graduate credit towards his/her degree program. if:

 The courses were taken at the graduate level at an accredited college or university;

The courses were not introductory or survey in nature;

 The student earned grades of "B" or higher in the courses;

 The courses are judged by the Department Chair, College Dean, Graduate School Dean, and program manager to be relevant to the student's graduate program;

5) The credits were not used toward

another degree; and

 The credits were completed within six years immediately preceding the College's awarding of the degree.

Credits are not transferable until the student has earned 15 semester hours in a Chapman School graduate degree program.

Change of Program

The graduate student who wishes to change his or her graduate program of study must submit a "Graduate Change

of Program" request to the Graduate Admissions Office and meet the admission and degree program requirements in effect at the time of the change.

Degree Requirements

To be eligible for a Master's degree, a student must:

- a student must:

 1. Satisfy all University requirements for a Master's degree;
 - 2. Satisfy required prerequisites;
- 3. Meet the requirements of his or her graduate "Course of Study." This "Course of Study" is developed by the student and his or her graduate advisor or degree program director following his or her admission to a program and is approved by the appropriate Department Chair, Academic Advisor, or Program Director.

 Complete the required courses in the specific graduate program in which

he/she is enrolled.

5. Earn a minimum average of "B" (3.0) in all approved courses in the student's approved course of graduate study.

No courses in which a graduate student earns a grade below"C" may be counted towards any Master's degree program in the Chapman School. However, all approved undergraduate and graduate course work a graduate student takes will be counted in computing his or her grade point average, including courses in which he or she has earned a "D" or "F" grade. To improve a grade, please refer to the University Forgiveness Policy under General Information.

Faculty have the discretion to administratively drop students who do not attend the first class of a course.

Time Limit

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

Study Abroad Programs

Graduate students in the College may earn a <u>maximum</u> of three (3) credit-hours for study abroad programs unless otherwise prescribed by their degree program.

Scholarships

The Chapman Graduate School of Business has set aside funds from operations and donations to the School to support a limited program of partial scholarships destined to cover tuition and fees for our International MBA. Master of International Business, and other value-added Master's degree These scholarships are programs. highly selective and intended to further academic achievements. Interested students and candidates should address a letter indicating their circumstances to Ellie Browner, Director of Admissions and Student Services, Chapman Graduate School of Business, University Park, Miami, FL 33199. Priority will be given to students who are admitted to one of our programs and who exhibited extraordinary academic merit in addition to financial hardship.

Master of Business Administration (MBA)

The College offers four programs leading to the MBA degree. Each program is designed to meet different student needs. The MBA programs are: the Evening MBA, the Executive MBA, the International MBA, and the Global (E)M.B.A. for Managers in the Americas.

An overview of each of these programs is provided below. For specific degree requirements in each program, please contact the program office or director.

Evening Master of Business Administration (EVEMBA)

The Evening Master of Business Administration (EVEMBA) program is designed to give students a general management education and to help them prepare for advancement in their business careers. Since it is an evening program, it is especially valuable for those students who work full-time during the daytime hours.

The Evening MBA program offers courses four evenings—Monday through Thursday—per week. Classes are held on the College's University Park campus. The Professional Development Seminars are offered on Saturdays in the Fall and Spring terms.

Students may take up to four regular courses and a Professional Development Seminar per semester, though the majority of students opt to take two courses and a Professional Development Seminar per semester and generally earn their MBA degree in about three years. Students also must own or have access to a laptop or desktop computer with a specified configuration.

For additional information about the Evening MBA program, please contact the program manager, at (305) 348-3256 or address your inquiry to evemba@fin.edu

Executive Master of Business Administration (EMBA)

The Executive Master of Business Administration (EMBA) degree program, designed for working business professionals, delivers a total graduate education experience preparing students for new and expanding responsibilities as senior-level functional or general managers. It is a rigorous, tuition-plus-fees program that is limited to a select number of qualified students.

Program participants earn their MBA degree without interrupting their careers. Structured so that all requirements can be completed in twenty-one months, the program is offered on three Saturdays and one Friday per month at two South Florida locations the Roz and Cal Kovens Conference Center on the Biscayne Bay Campus and at FIU-Pembroke Pines.

For additional information about this value-added program, call the EMBA office at (305) 348-I036 or email emba@fiu.edu

International Master of Business Administration (IMBA)

The IMBA (International MBA) degree program features an MBA curriculum with an international business focus. This value-added program has been especially designed for students/working professionals interested in pursuing their international business careers. For students from outside the U.S., it represents an opportunity to prepare for executive positions in the U.S. as well as in other parts of the world. For students in the U.S. who would like to assume business leadership in international businesses, it provides an integrated perspective of international business issues and the knowledge they need to succeed in a rapidly evolving, global economy.

Given the Chapman School's Miami location and expertise in Latin American and Caribbean business, the program is particularly valuable for those who want to secure executive positions in The Americas.

The IMBA program incorporates these unique features:

- An intensive MBA curriculum that can be completed in 12 months
- Day-time classes five days per week
- Global and multicultural perspective throughout
- Language classes in Spanish, Portuguese, and French
- Personal assistance in securing internships and full-time positions upon graduation
- Opportunity to participate in study abroad programs and attend university seminars on global business issues
- Frequent interaction with senior executives involved in international business

For more detailed information about the IMBA program, please contact the program manager, at (305) 348-6880 or by email imba@fiu.edu

Global Executive MBA (GEMBA) for Managers in The Americas

The Global (E)MBA is designed to give experienced business professionals a focused, convenient, and intensive MBA experience that provides a thorough and in-depth understanding of what it will take for business enterprises to succeed in the highlycompetitive, technology-enabled and fast-paced global economy of the 21st century. It is structured specifically to meet the needs of managers who now work full-time in companies in Latin America or in the Latin American offices of multinational corporations. Because it combines brief residency sessions in Miami with Internetfacilitated instruction, it offers a convenient way for participants to earn their MBA while continuing to fulfill their ongoing work and travel commitments throughout The Americas.

The Global (E)MBA builds on those features of our Executive MBA program which have proven to be particularly valuable to managers in The Americas, emphasizing the strategic and tactical issues facing Latin American business operations within a global context and the ways recent developments like e-commerce, global supply chain management, and strategic alliances can be used for competitive advantage. Faculty in the program offer their own unique perspectives based on their international educational and

consulting experiences, their work with the many multinationals whose Latin American headquarters are in Miami, and their familiarity with the largely Latin and international student body at the university itself.

A top-notch curriculum, expert faculty, and the diversity of the participants themselves help ensure that the program creates a rich learning environment for everyone involved. Key features of the program include—

- It's an intensive, thirteen-month program of study.
- It capitalizes on faculty and participants' varying perspectives, backgrounds, and business experiences globally and in Latin America.
- It combines five residency sessions in Miami with Internetbased coursework and team projects.
- Its capstone, entrepreneurial strategy simulation, exclusively designed for the MBA program, culminates in the presentation of business proposals to venture capitalists.
- It provides a high level of personal service, including individual instruction and leadership development

For more information, prospective applicants should contact the program manager at (305) 348-3131 or email gemba@fiu.edu.

Master of International Business (MIB)

The Master of International Business (MIB) degree is designed for students who want to pursue a career in the dynamic global business environment. Specifically, it is tailored to meet the needs of business professionals who want to participate in a U.S.-based graduate business program provides a global, supply-chain-system perspective; who have undergraduate business degree and are in the early stages of their professional careers; who have good English language skills but want to improve their fluency in a business context; and who expect to assume progressively higher levels of management responsibility in their firms.

The global character of the MIB program is inherent in its curriculum and in the multinationality of the students enrolled in it. Because they move through the program as a group,

students continually share and learn from their diverse perspectives and experiences. In addition to the international business expertise of its faculty, the program features lectures and seminars by multinational, foreign, and U.S.-based corporate business leaders. Its key features include—

- Day part-time, full-time and evening program options
- A focus on the emerging global system and its multinational business implications
- An emphasis on supply chain management
- Information technology and ecommerce
- Workshop in accounting review
- Includes participation in seminars, conferences and field trips conducted by the Knight Ridder Center for Excellence in Management and the Ryder Center for Supply Chain Systems
- Incorporates participation in projects that bring the best minds from industry, government, and academia together to focus on hemispheric and global supply-chain systems efficiencies
- A high level of personal service and support

MIB students also benefit from studying in South Florida, particularly since Miami is a major center for international trade and finance and a gateway linking the Americas to the world.

For more information about this program, please contact the program director at (305) 348-3279 or by email mib@fiu.edu

Other Master's Programs

The professional master's degree programs are described in the appropriate departmental pages. Master of Accounting; Executive Master of Science in Taxation; Master of Science in Finance; Master of Science in Management Information Systems and Master of Science in Management with a Human Resources Track.

Ph.D. Program

The Chapman School offers a Ph.D. in Business Administration. The objective of this degree program is to prepare students for a career in academia by building their understanding of the substantive

domains and literature within their selected areas of concentration. It provides them with the methodological and analytical tools required for executing research and creating knowledge. It develops their skills in formulating, conducting, and communicating quality research. In the process, it also fosters their ability to teach effectively.

The Ph.D. program typically requires four years of full-time study: two-and-a-half years of coursework and summer projects and a year-and-a-half of dissertation research. Students will take a minimum of 16 courses (with a minimum of six courses in their chosen area of concentration). Students also will complete summer research projects under faculty supervision.

Areas of Concentration

Information Systems Marketing Finance

Admission Requirements

All qualified students are encouraged to apply to the program, regardless of their sex, age, race, color, creed, handicap, marital status, or national or ethnic origin. Applications are accepted from prospective students with a broad variety of educarional backgrounds, including areas like business, liberal arts, and the sciences. Those students selected for the Ph.D. program must demonstrate strong evidence of ability, scholarly interest, and success. Applicants should submit the following:

- A completed application form and processing fee.
- 2. Three letters of recommendation.
- 3. Official transcripts from all institutions in which the applicant has completed any undergraduate and graduate course work. Applicants are expected to have at least a 3.0 GPA in their coursework.
- 4. A report from the Educational Testing Service giving the applicant's score on the Graduate Management Admissions Test (GMAT). Entering students are expected to score a minimum of 570 on the GMAT.
- 5. A formal statement of purpose for seeking the doctoral degree and specific reasons for applying to Florida International University.
- 6. If applicant is an international student whose native language is one other than English, an official report of his or her score on the TOEFL from the Educational Testing Service. A minimum score of 570 (230 on

computer-based test) is expected. Such applicants also should review the "General Admission Requirements for Foreign Students" in the "Admission" section of this catalog.

The College admits a new class of doctoral students every other year during the Fall semester.

Complete applications must be received by March 1. Acceptance decisions typically will be made in April.

Applicants are considered once all the required documents have been received.

Degree Requirements

General degree requirements for all candidates for a Ph.D. in Business Administration include:

- Successful completion of all required coursework.
- 2. Successful completion of a comprehensive examination at the end of this coursework.
- Successful completion of a doctoral dissertation.

Financial Aid

Applicants to the doctoral program may request financial aid by completing the appropriate form. Stipends requiring a mixture of research and teaching are available. These stipends may include both a cash award and a tuition waiver, depending upon the applicant's qualifications.

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

School of Accounting

Dana A. Forgione, Professor and Director

Rolf Auster, Professor Delano H. Berry, Lecturer Lucia Chang, Professor Emeritus

Lewis F. Davidson, Professor Manuel Dieguez, Lecturer and Associate Director

Mort Dittenhoffer, Professor Emeritus Donald W. Fair, Lecturer and

Associate Dean
Georgina Garcia, Lecturer
Wendy Gelman, Lecturer
C. Delano Gray, Lecturer and
Program Manager, EMST and

Rosalie C. Hallbauer, Associate Professor

MACC

Kenneth Henry, Visiting Lecturer David Lavin, Associate Professor Chlh-Chen Lee, Assistant Professor Peter Manhelmer, Lecturer

Kenneth S. Most, Professor Emeritus Robert R. Oliva, Professor

Michael J. Prietula, Ryder Systems Eminent Scholar Chair

Kannan Raghunandan, Professor Dasaratha V. Rama, Professor Leonardo Rodriguez, Professor Ena Rose-Green, Visiting Assistant Professor

Krishnamurthy Surysekar, Assistant Professor

Clark Wheatley, Associate Professor John Wrieden, Distinguished Senior Lecturer

Harold Wyman, Professor Emeritus

Purpose

The mission of the School of Accounting is:

- To provide students with an up-todate education in professional accounting with due attention to its quality and timeliness in light of a marketing and regulatory environment continually being affected by rapid changes in technology.
- To provide the professional community in government, industry, and public accounting with graduates who are exceptionally well qualified professionals at various levels and who will have mastered the techniques necessary to manage in a climate of dynamic change.
- To create a positive climate for students to develop their ethical

- value system and a commitment to life-long learning.
- To promote pure, applied, and instructional research which expands the boundaries of knowledge, supports the work of practitioners, and welds the latest research results to the latest teaching techniques.
- To support and recognize the development of the faculty regarding their teaching, research and service responsibilities.
- To support the accounting and other professions in South Florida and elsewhere with life-long learning via short courses, conferences, and published materials designed to hone practitioners' skills in the latest technical and professional developments and in recognizing environmental trends that may affect future practices.
- To provide meaningful knowledge of professional accounting concepts and information to other academic and professional disciplines.
- To support the mission and objectives established by the College of Business Administration and to foster the design and implementation of the University's strategic and tactical plans.

Master's Degree Programs

The School of Accounting offers three graduate degree programs: Master of Accounting, Master of Science in Taxation, and Executive Master of Science in Taxation. The programs are designed for students who have completed an undergraduate degree in accounting, or the equivalent, from a regionally accredited college or university. The Director of the School of Accounting will determine the equivalency of students' undergraduate degrees.

Students whose undergraduate degress are in majors other than accounting will be required to make up for any business and/or accounting deficiencies. The Director of the School must approve programs of study for students seeking to correct such deficiencies.

All students taking graduate accounting and tax courses must be fully admitted to one of the graduate accounting programs or have written permission from the Director of the School Registration for all such course work must be made through the

appropriate College advisor, whose signature, along with the School's stamp, must be attached to the registration packet.

Special Program Requirements

A student with a degree in business who is admitted into the Master of Accounting (MACC) program may be required to complete up to 8 accounting pre-core courses (24 credit hours), to be selected from the following three credit-hour courses:

ACG 4101	Financial Accounting I
ACG 4111	Financial Accounting II
ACG 4201	Financial Accounting III
ACG 4651	Auditing
ACG 4401	Accounting Information
	Systems
ACG 4341	Management
	Accounting and Control
BUL 4320	Business Law I
BUL 4321	Business Law II
TAX 4001	Income Tax Accounting
TAX 4011	Taxation of
	Corporations and
	Partnerships

A student with a non-business degree who is admitted to this program will be required to complete, in addition to the pre-core courses listed above, the core courses for the Evening M.B.A. program or equivalent undergraduate courses. MAN 6726 (Strategic Management) must be taken under either option.

Master of Accounting (MACC)

The Master of Accounting degree program prepares students for a career in accounting. For those already pursuing such a career or who are seeking to change careers to one in accounting, the program offers excellent preparation as well. The program satisfies the 30 semester hours beyond a Bachelor's degree required for the CPA examination.

Depending on a student's interests, he or she will prepare for a variety of careers:

Careers Financial Accounting/ Auditing

Independent Accountant in public accounting

Systems

Accounting systems, consultant, auditor, corporate officer, or public accountant

Internal Auditing Internal auditor, industry or government

Corporate Management Accounting

Internal accountant or corporate officer

Students interested in sitting for the CPA examination must include law and 36 hours of accounting as required by the Florida Statute.

Degree Requirements

Students pursuing a MACC with any of the concentrations listed above must complete the following requirements:

Accounting Core

ACG 6135

Seminar in Financial Accounting Theory 1

ACG 6657

Environment of Accounting and Auditing

ACG 6437

Advanced Accounting Information Systems

Unless approved in advance by the Director of the School, these required courses cannot be transferred.

Electives

Electives (seven courses) must be selected from the following two groups of courses:

 No more than two courses from this list:

TAX 6065

Tax Research Practice and Procedure

TAX 6105

Taxation of Corporations I

TAX 6205 Partnership Taxation

2. Additional 6000-level courses, approved by the Director, School of Accounting, with a minimum of four courses (12 credit hours) in a single concentration selected from a) financial accounting/auditing; b) systems; c) internal auditing; or d) corporate/management accounting

Curriculum is currently under revision. Please contact the School Accounting for further information.

Master of Science in Taxation (MST)

The Master of Science in Taxation program prepares students for entry and advancement in the specialized area of taxation. The program satisfies the 30 semester hours beyond a Bachelor's degree required for the CPA examination.

The Director of the School of Accounting must approve students' programs of study.

Degree Requirements

12 hours 18 hours

Tax Core Electives Tax Core

TAX 6065 Tax Research Practice

and Procedure Taxation of

TAX 6105 Corporations I

TAX 6405 Estate and Gift Taxation TAX 6875 Current Developments

in Taxation

Electives

Six additional 6000-level courses approved by the Director, School of Accounting, three of which must be tax courses (excluding TAX 6005, and TAX 6935).

Note: Students admitted to the MST program who wish to sit for the CPA exam and who are required to complete deficiencies in undergraduate accounting by completing the accounting precore courses are not required to take TAX 4001, Income Tax, as part of the Accounting Pre-Core.

For additional information about the program, contact Robert R. Oliva, program manager, (305) 348-2582 or email olivar@fiu.edu.

Florida CPA Requirement

Completing a Bachelor of Business Administration with a concentration in Accounting does not alone meet the Florida State Board of Accountancy requirements for the CPA exam. With a carefully-planned program of study, a student who earns either a MACC or an MST will be qualified to sit for the CPA exam and, upon completing it successfully, will be certified in the State of Florida. There is no additional experience requirement.

New Master of Accounting (MACC), value-added

New Master of Accounting (MACC), value-added track, is a special 10month, 10-course program tailored to address the needs of working professionals who wish to obtain the degree in an accelerated time span. The program is also designed to satisfy the additional 30 semester hours beyond the bachelor's degree for the For additional CPA examination. information about the program, contact the program manager at (305) 348-4208.

Executive Master of Science in Taxation (EMST)

The Executive Master of Science in Taxation (EMST) degree program is a special. 10-course, two-year program tailored to address the needs of working professionals who wish to obtain the degree in a flexible time span. The program, which is a tuitionplus-fee offering, is also designed to satisfy the additional 30 semester hours beyond the Bachelor's degree for the CPA examination.

For additional information about this program, contact the program manager, at (305) 348-4208.

Decision Sciences and Information Systems

Christos P. Koulamas, Professor and

Chair

Dinesh Batra, Associate Professor Styllanos Drakatos, Visiting Lecturer Joyce J. Elam, Professor, James L.

Knight Eminent Scholar, and Executive Dean

S. Christopher Ellis, Instructor Irma Becerra Fernandez, Assistant

Professor
Sushil K. Gupta, Professor
Falsal Kaleem, Instructor
Gerard Klonarides. Visiting

Instructor

Kuldeep Kumar, Professor and Ryder Eminent Scholar George J. Kyparisis, Professor Yair Levy, Instructor and Online Learning Project Manager Cherie Long, Assistant Professor Tomislav Mandakovle, Professor Ligia Mintchev, Instructor Kenneth E. Murphy, Assistant Professor

Jose Noguera, Assistant Professor Manoel Oliveira, Instructor and

Director of Technology
Larry A. Smith, Associate Professor
Duane Truex, Assistant Professor
Tei-Wel Wang, Assistant Professor
Nicole Wishart, Instructor
Ann Xia, Visiting Professor
Steve H. Zanakis, Professor
Peter J. Zegan, Instructor

Purpose

With the rapid decrease in information technology cost/benefit ratios, the advancement of graphical user interfaces, and the development of the Internet, information systems have become ubiquitous and strategic.

Students in the information systems concentrations use new or existing research methods to help understand the ways in which contemporary organizations design, employ, and manage information systems.

Students in our graduate programs learn the intellectual frameworks and methods used in areas like systems analysis and design (including object-oriented applications), database management, decision support systems (including data warehousing), global electronic commerce, enterprise-wide information systems, and information systems management.

The Department of Decision Sciences and Information Systems

offers a Master of Science in Management-Information Systems (MSMIS) and a concentration in the Ph.D. program.

Master of Science in Management Information Systems (MSMIS)

The Master of Science in Management Information Systems (MSMIS) program is a selective, limited-access, value-added program in which students proceed as a cohort through a lock-step curriculum designed to maximize their learning experience.

The program is structured in six "blocks" or sessions, with each session consisting of two courses and lasting about eight weeks. Classes meet on Saturdays for a full day. To complete this 36 credit-hour program successfully, students must maintain a B average (3.0 GPA).

For additional information, please contact the program manager at (305) 348-6452 or visit www.fiu.edu/~msis

MIS Concentration in the Ph.D. Program

The Department of Decision Sciences and Information Systems (MIS) concentration in the doctoral program in Business Administration. The concentration requires completion of the following six courses (18 credit-hours):

ISM 7935 Foundations of IS Research ISM 7306 Seminar on Strategy and Information Resource COP 7545 File and Database Systems ISM 7126 Seminar on Systems Analysis ISM 7406 Decision Support Systems ISM 7xxx Enterprise Information Systems

Please contact the Department Chair for further requirements and details.

Finance

William Welch, Associate Professor and Chair

Gary Anderson, Associate Professor Joel Barber, Associate Professor Robert Bear, Professor Gerald O. Bierwag, Ryder

Professor

Chun-Hao Chang, Associate Professor

Robert T. Daigler, Professor Krishnan Dandapani, Professor Brice Dupoyet, Assistant Professor Shahid Hamid, Associate Professor and Faculty Director, MSF

Program

James Keys, Instructor

Suchismata Mishra, Assistant

Raul Moncarz, Professor and Vice Provost, Academic Affairs

Ali M. Parhizgari, Professor Arun Prakash, Professor John S. Zdanowicz, Professor and Director, Center for Banking and

Financial Institutions, and Director. Jerome Bain Real Estate Institute

Purpose

The Department of Finance's graduate program seeks to extend and deepen students' understanding of finance in both its theoretical and practical dimensions. It primarily serves students with an undergraduate business degree who wish to secure additional expertise in the discipline.

The Department offers a Master of Science in Finance (MSF) degree that prepares graduates to analyze and solve problems related to obtaining and using real and financial assets and liabilities. The curriculum grounds students in the areas of banking, corporate finance, investment, portfolio management, financial risk management, financial engineering, financial markets, institutions, and international finance. It provides them with concepts and applications framed within the most current developments in these fields.

The Department also offers a Finance Concentration in the MBA Contact the Graduate program. Advising Office for details.

Master of Science in Finance (MSF)

To earn a Master of Science in Finance degree, students must complete a minimum of 33 semester hours (11 courses)

The 33 credit-hour requirement may he reduced to 30 hours for students who have an accredited Master's degree in Business Administration (MBA). In addition, students may be allowed to transfer one graduate course from an accredited university even if they did not secure an advanced degree.

The following courses are required for the MSF degree:

toi the Mor d	egice.		
FIN 6246	Financial Markets and		
	Institutions		
FIN 6326	Commercial Banking		
FIN 6426	Financial Management		
	Policies		
FIN 6428	Corporate Finance		
FIN 6436	Capital Budgeting and		
	Long Term Resource		
	Allocation		
FIN 6456	Quantitative Methods in		
	Financial Analysis		
FIN 6487	Financial Risk		
	Management		
FIN 6515	Security Analysis		
FIN 6525	Portfolio Management		
FIN 6538	Financial Futures and		
	Fixed Income Invest		
FIN 6644	Global Financial		
	Strategy		

The minimum passing grade for any FIN 6000 level course is "B-." MSF students must maintain an overall grade

point average (GPA) of 3.0. For more information, contact the program manager (305) 348-4198.

Finance Concentration in the Ph.D. Program

All students are required to complete a minimum of 16 courses. concentrating in Finance must take six courses or seminars in Finance (as described below), a two-course sequence in advanced economic theory, and a two-course sequence in either econometrics or advanced equivalent sequence of courses in advanced statistics. With the advice and consent of the departmental Ph.D. committee, students also select other supporting coursework. The first year of study is regarded as "Tier I" in the and successful program, Ph.D. completion of this year of study is a prerequisite for enrollment in some of the more advanced courses.

Students are expected to maintain a GPA of 3.5 or better in the six departmental courses that comprise the Finance concentration. In addition, students are expected to maintain a GPA of 3.3 or better in all of their coursework.

A Sample Course of Study

The sample program of study below describes the schedule for a typical student. Variations may be allowed for some students, and, of course, the requirements may be changed at the discretion of the Ph.D. Committee.

Year I - Fall Semester			
FIN 7855	Financial Economics I**	3	
FIN 7845	Statistical Methods in Finance I***	3	
FIN 7808	Financial Theory I	3	
Year I - Spring Semester			
FIN 7856	Financial Economics II**	3	
FIN 7846	Statistical Methods in	2	
ED1 3000	Finance II***	3	
FIN 7809	Financial Theory II	٥	
Year I - Sum GEB 7916	mer Semester Empirical Project	6	
Year II – Fal		•	
	Financial Theory III	3	
Finance Elective Finance Elective		3	
		-	
Year II - Spring Semester Finance Elective			
Finance Elective		3 3 3	
Finance Elective		3	
Year II - Summer Semester			
GEB 7916		6	
Year III - F		3	
Finance Elective			
Finance Elective			
GEB 7981	Dissertation Preparation	on 3	

FIN 7980 Year IV - Fall Semester Ph.D. Dissertation 9 FIN 7980 Year IV - Spring Semester

Ph.D. Dissertation

Ph.D. Dissertation

Ph.D. Dissertation

6

3

Year III - Spring Semester

Year III - Summer Semester

GEB 7980

FIN 7980

Finance Elective

** The sequence in Micro-Economic Theory, ECO 7115 and ECO 7116, may be substituted for this sequence in Financial Economics.

***The sequence in Econometrics, ECO 7424 and ECO 7425, may be substituted for this sequence in Statistical Methods in Finance.

Research Projects

Students are required to complete research projects during the summer semesters following their first and second years in the program. One faculty member will serve as an advisor for all research projects in a given summer.

The primary objective of the first summer research project is to enhance the student's skills in using computer programs for research. Students are expected to undertake a research project that will require them to use computers in order to complete it. To this end, they are expected to replicate some previously-tested hypothesis using new data or to engage in some other meaningful computer-based project.

The second summer research project, in contrast, requires the student to research original develop an hypothesis. This hypothesis should be developed well in advance of the second summer semester so the student will have enough time to execute the project during the summer semester.

For both summer projects, students must submit a written paper and make a presentation to the faculty. Ideally, these papers should be of sufficient quality to merit their submission to a conference or a journal.

Students must satisfy all university and college dissertation requirements.

Management and International Business

K. Galen Kroeck, Professor and Chair

Constance S. Bates, Associate
Professor and Barsky-Greenstein
Professor

Gary Dessler, Professor

Herman Dorsett, Associate Professor Dana L. Farrow, Professor

Earnest Friday, Assistant Professor

Ronald Gilbert, Associate Professor Carolina Gomez, Assistant Professor

Robert Hoguer, Associate Professor Laura Kozloski, Lecturer

Karl O. Magnusen, Professor Modesto A. Maidique, Professor and University President

J. Randall Martin, Lecturer

Andrew McCosh, Chapman Eminent Scholar in Management and Ethics

Sherry Moss, Associate Professor and Faculty Coordinator, Executive MBA Program

Karen Paul, Professor

Clifford Perry, Distinguished
Executive Professor and Associate

Dean, Research Fellow, Knight Ridder Center

Leonardo Rodriguez, Professor Donald Roomes, Instructor and

Director, Weekend BBA Program Juan Sanchez, Associate Professor, Faculty Advisor, MSM, HR Track

Philip Shepherd, Associate Professor Ronnie Silverblatt, Associate

Professor

Deborah Vidaver-Cohen, Associate

Professor

Mary Ann Von Glinow, Professor and Director, CIBER

The Management and International Business Department includes an internationally oriented and dedicated faculty with expertise in strategic management, human resource management, organizational behavior and international business.

Our curriculum is designed to prepare students for successful management careers in the global business arena and in a variety of organizations. Our graduates are armed with an understanding of the management discipline, a broad intellectual framework for managing in an ever-evolving marketplace, the ability to lead and work within teams, computer literacy, and solid communication skills.

Master of Science in Management with a Human Resources Track

The Master of Science in Management with a Human Resources Track is for professionals and designed executives in the field of human resource management, as well as for college graduates interested in a career in the field. The MSM is a valueadded program where students proceed through courses in a lock-step process designed to maximize the value of the program. This twelve-course (37-hour) program is designed to be completed in 16 months, with classes meeting only on Saturdays. The students will also have extensive interaction with an Advisory Board, which is made up of leading HR professionals from the South Florida area.

For further information, please contact the program director at (305) 348-2791, or visit our web site at www.fiu.edu/~mshrm.

Marketing

J.A.F. Nicholls, Professor and Chair Peter R. Dickson, Eminent Scholar in Marketing, Knight Ridder Center for Excellence in Management Timothy Dugan, Visiting Instructor Sally Gallion, Assistant Dean Jonathan N. Goodrich, Professor Barnett A. Greenberg, Professor Walfried Lassar, SunTrust Professor Tiger Li, Associate Professor of Marketing, Director of Ph.D. Prooram

Anthony Miyazaki, Assistant Professor

Michael S. Munro, Instructor Marta Ortiz, Associate Professor Lynda Raheem, Instructor and Assistant Dean

Raymond Rody, Assistant Professor Bruce Seaton, Associate Professor Kimberly Taylor, Associate and Barsky-Greenstein Professor John Tsalikis, Associate Professor

The Department of Marketing offers concentration in Marketing in both the M.B.A. and the Ph.D. programs. Contact the Department Chair for additional information.

The Department of Marketing boasts an internationally diverse, experienced, widely published, and highly involved Our faculty faculty. includes recognized experts in consumer and decision-making behavior. business ethics, and corporate social responsibility. Our programs and courses represent leading-edge thinking and practice. Many of our graduates, in have become successful entrepreneurs in a variety of business arenas - from high tech to motor sport marketing.

The study of marketing involves learning about how best to make a host of key decisions and implement them in an organization. A few of these decisions include:

- What products and services to offer
- · Who customers should be
- How to position products/ services relative to those of competitors
- How to design and package the products/services
- Where and how to distribute the products/services
- How to price products/services
- How to advertise and promote products and services

You can study topics like marketing management. market research, consumer behavior, marketing the small business, export marketing, international marketing, marketing channels, retailing management. advertising management, promotional selling, sales strategy, personal strategic marketing, management. management and advanced studies of international marketing. market consumer behavior. research. promotional strategy, and sales management.

Marketing Concentration in the Ph.D. Program

All students are required to complete a minimum of 15 courses in addition to College Colloquium series. Students concentrating in Marketing must take all seven of the seminars offered by the Marketing Department; these seminars are listed below. In addition, students are required to take a two-course sequence in research methods and between two to four courses in statistics (the number of required courses in statistics depends upon the student's level of statistical knowledge upon entering the program). Other coursework will be selected by the student with the advice and consent of the Department's Ph.D. Committee. To remain in the program, students are expected to maintain a GPA of 3.5 or better in the seven courses comprising the Marketing concentration. addition, students are expected to maintain a GPA of 3.3 or better in all of their other coursework.

Required Marketing Seminars

MAR 7667 Seminar in Marketing Management Seminar in Consumer MAR 7507 Behavior MAR 7623 Seminar in Marketing Environment MAR 7246 Seminar in International Marketing MAR 7652 Seminar in Advertising and Persuasion MAR 7205 Seminar in Channels of Distribution MAR 7665 Seminar in Marketing

Models

Research Projects

Students are required to complete research projects during the summer semesters following their first and second years in the program. These projects will be supervised by a faculty member.

Because the primary objective of the first summer research project is to enhance a student's skills in executing research, they are not expected to develop new research hypothesis for this first project. Rather, they may simply select an existing hypothesis that has been tested previously and develop and implement a study for testing it that offers a meaningful methodological contribution to the existing literature.

The second summer research project, however, requires the development of an original research hypothesis. This hypothesis should be formulated well in advance of the summer semester so that students have sufficient time to execute the actual studies during the summer term.

For both summer projects, students must submit a written paper and make a presentation to the faculty. Ideally, these papers should be of sufficient quality to merit their submission to a conference and/or academic journal.

At the end of their coursework, students must pass a comprehensive examination designed to assess their level of preparation for dissertation research. This examination will consist of the student preparing a typed proposal that develops an original hypothesis or hypotheses in an area of substantive importance. The proposal also must describe a methodology for testing the hypothesis. The proposal will be evaluated by the Department's Ph.D. Committee.

Course Descriptions

Definition of Prefixes:

ACG-Accounting; BAN-Banking; BUL-Business Law; CGS-Computer and Information Systems; ECO-Economics; FIN-Finance; GEB-General Business; ISM-Information Systems Management; MAN-Management; MAR-Marketing; QMB-Quantitative Methods in Business; REE-Real Estate; SPC-Speech; TAX-Taxation; TRA-Transportation.

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

Departmental or School/College Designation:

AC - School of Accounting

AS - College of Arts & Sciences

BA - College of Business Administra-

DS - Decision Sciences and Information Systems

EC - Economics

FI - Finance

MA - Management and International Business

ME - Marketing

MS - Mathematical Sciences

TD - Theatre and Dance

ACG 5137 Standards and Principles of Financial Accounting (AC) (3). A survey of official pronouncements on accounting standards and principles. Prerequisite: Permission of Accounting certificate program advisor.

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. Perequisite: Permission of Accounting certificate program advisor.

ACG 5386 Controllership (AC) (3). Study of controllership function; role of controller in planning, accounting for, and evaluating company performance; relationship with internal audit-

ing. 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. Perrequisite: Permission of accounting certificate program advisor.

ACG 5518 Historical and Comparative Government Accounting (AC) (3). Research and reporting on subjects in the history of, or on comparative aspects of, government accounting. Prerequisite: Permission of accounting certificate program advisor.

ACG 5519 Contemporary Issues in Government Accounting (AC) (3). Research and reporting on current issues related to government accounting. Prerequisite: Permission of accounting certificate program advisor.

ACG 5545 Analysis of Governmental Financial Reports (AC) (3). Describes content of government financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress Prerequisites: Permission of accounting certificate program advisor.

ACG 5546 Governmental Planning and Budgetary Accounting with Cases (AC) (3). Budgeting in governments emphasizing formulation based on accounting and auditing input. Budget execution and analysis of deviations of actual from budgets; study of ZBB, PPBS, and MBO

systems and their behavioral and accounting bases. Prerequisites: Permission of accounting certificate program advisor.

ACG 5596 Accounting for Specialized Governmental and Nonprofit Entities (AC) (3). Survey course by guest lecturers covering detailed accounting concepts, procedures, and reporting for enterprise fund entities, educational entities, and unique types of internal service funds. Prerequisites: Permission of accounting certificate program advisor.

ACG 5627 Systems Auditing (AC)

(3). Principles and procedures of auditing systems of information, including the function, approach, and techniques of systems auditing and the evaluation of systems controls. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

ACG 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 iu 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 the instructor, accounting certificate program advisor, School Director, and Dean.

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

196

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 EMST or MACC students.

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

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

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

ACG 6176 Evaluation of Financial Reports, Business Analysis and Valuation (3). Seminar examining quality of financial reports and adjusting for investment decisions. Valuation models are used to value firms given economic and industry characteristics and alternative business strategies. Prerequisite: Permission of School of Accountine.

ACG 6225 Value Added Accounting Practices in Strategic Business Decisions (3). Seminar examining role and inputs of accounting/finance in strategic decisions. Mergers/acquisitions/corporate restructuring framework is used to bring into focus analysis necessary for all phases of business. Prerequisites: Master of Accounting students only; must be in final semester of program.

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. Prereq-uisites: ACG 4111 or equivalent, ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisite: ACG 6026 or equivalent, not open to MACC students.

ACG 6257 Global Accounting,
Auditing and Financial Strategy (3).
Evaluation of U.S. GAAP and
International Accounting Standards an
the international dimensions of
auditing. Consideration is given to
geopolitical issues, international
organizations, and role of regulators.
Prerequisite: Permission of School of
Accounting.

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

ACG 6345 Management Accounting and Control (AC) (3). Accounting concepts and techniques useful in evaluation, planning, organization and control of a business enterprise, with attention to methods of accounting for production activities; ethics in management accounting. Prerequisites: ACG 4111 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

ACG 6346 Seminar in Managerial Accounting I (AC) (3). Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisite: ACG 4341 or ACG 6026, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6356 Seminar in Managerial Accounting II (AC) (3). A study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisite: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the School Director.

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

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

ACG 6406 Accounting Data
Warehousing and Analysis (3).
Framework for enterprises to provide
comprehensive access to organizationwide accounting data and to develop
information systems capable of
collecting, processing and arranging
accounting data in comprehensive data
bases. Prerequisite: Permission of
School of Accounting.

ACG 6415 Seminar in Accounting Information Systems II (AC) (3). Accounting information systems for strategic use in the management of competitive enterprises; budgeting, performance 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 Information Systems (AC) (3). Development and control of information systems for accounting, emphasis on new microcomputer technology, software engineering, methods of data pro-cessing and database management systems. Prerequisites: ACG 4401 or equivalent and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6445 Accounting Information Systems Analysis and Design (AC) (3). Accounting applications of information systems analysis and design concepts, methods, and tools; requirements, design, control, and prototyping of accounting information systems. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6455 Accounting Information Systems Technology, Control and Audit I (AC) (3). Accounting applications, control, and audit of large computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6456 Accounting Information Systems Technology, Control and Audit II (AC) (3). Accounting applications, control, and audit of small computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required.

ACG 6466 Accounting Enterprise Resource Planning (3). Course intends to provide students with an overview of ERP in accounting including history, concepts of ERP and role of ERP in accounting. It also provides students hands on experience with accounting application of ERP package, SAP/R3. Prerequisite: Permission of School of Accounting.

ACG 6515 Advanced Governmental Accounting (AC) (3). Treats the developing concept of consolidated financial statements for governments. Also covers advanced areas of

accounting, e.g., concepts, investment accounting, and pension accounting. Prerequisites: ACG 6505, ACG 6584, admission to graduate program in School of Accounting or permission of School Director.

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

ACG 6625 Information Technology Auditing (AC) (3). Understanding and application of concepts and procedures of auditing computer information systems; analysis, testing, and documentation of computer security and controls for management and financial statement reports. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6655 Auditing and Accounting Systems (AC) (4) Standards and responsibilities of auditors, audit evidence, reporting, international standards; design and control of accounting information systems. Prerequisites: ACG 4111 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with a undergraduate accounting degrees.

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

ACG 6675 Internal Auditing (AC) (3). This course examines auditing in depth as a professionalized discipline for reviewing testing, and evaluating the financial and the operational

activities and controls of an economic entity. Focus will be directed to private sector profit secking entities as well as governmental and other nonprofit organizations. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6676 Advanced Internal Auditing (AC) (3). Special topics in internal auditing such as forensic auditing, analytical auditing, management consulting, work with external auditors, ethics, multinational aspects, evaluation methods, quality control, new technologies and recent research. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6677 Applied Internal Auditing (AC) (3). The expansion of the internal audit process into such areas as administrative and support functions; line functions such as research, sales, and production; and special areas such as compliance, budgeting and controls. Course is taught by outside lecturers. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6686 Fraud Examination (3). Use of technology for the prevention of financial fraud, examination of emerging practices and regulatory trends as reflected in court decisions. Prerequisite: Permission of School of Accounting.

ACG 6696 Current Issues in Auditing (AC) (3). Professional and technical aspects of auditing practice; introduction to SEC; ethics and legal responsibilities; emergence of non-public practice; public expectations and professional reality; the impact of technology; international auditing; recent auditing developments. Prerequisite: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the School Director.

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

Accounting or permission of the School Director.

ACG 6845 Accounting and Quantitative Methods (AC) (3). Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: QMB 3150 and ACG 4401, or equivalents, and admission to a graduate program in the School of Accounting or permission of the School Director.

ACG 6866 Accounting for Health Care Organizations (3). Study of financial reporting and analysis applied to for-profit and NFP healthcare organizations emphasizing accounting issues related to strategic decisionmaking. Prerequisite: Permission of School of Accounting.

ACG 6867 Seminar in Medicare Regulation (3). Principles of Medicare payment systems emphasizing changing role of medicare in Amercia healthcare system and developing technical skills to understand, identify and research problems in Medicare payments. Perrequisite: Permission of School of Accounting.

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 judgment, sampling problems, audit risk, etc. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7836 Seminar: Behavioral Research in Accounting-Individual Behavior (AC) (3). An in-depth examination of the relationship of cognitive psychology, cognitive models of human judgment, decision theory and accounting information. Emphasis is placed upon the human processing of accounting information, the decision value of information, and the development of decision aids or

heuristics. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7837 Seminar: Behavioral Research in Accounting-Human Groups and Systems (AC) (3). The multifarious behavioral relationships of groups within the formal and informal organizational structure are examined with respect to performance measurement (efficiency and effectiveness), accountability, planning and control of the development of decision support systems. Prerequisite: Permis-sion 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. Perequisite: Permission of Doctoral advisor in Accounting.

ACG 7889 Seminar: Positive Theory Research in Accounting (AC) (3). Construction of theory to explain accounting and auditing practices in an environment of regulation using empirical research findings from a growing body of economic-based research in accounting and finance. 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 timerelated financial markets. This course is designed for Ph.D. students in accounting and business who already have advanced statistical and financial training, and serves as an introduction to other doctoral courses. Prerequisite: Permission of Ph.D. advisor.

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

BUL 5661 Law for Accountants (AC) (3). A survey of select topics of direct interest to accounting students, includeing contracts, sales, agencies, partnerships, corporations, Prerequisite: Permission of Accounting certificate program advisor.

BUL 5662 Accountant's Liability (AC) (3). Overview of accountant exposure to private and public sector liability suits, independent in auditor engagements, securities regulations and other state and federal laws of chief concern to accountants. Prerequisite: Permission of Accounting certificate program advisor.

BUL 6810 Legal Environment of Business (AC) (3). Studies the importance of law and legal institutions on commerce workings of administraive law; various aspects of employment legislation and other areas of legal environment of business. Prerequisite: Permission of accounting certificate program advisor.

BUL 6821 Cyber Law (3). Cutting edge issues of relationship between business/society and legal issues impacting internet usage in ecommerce and topics include intellectual property, business and finance, privacy and social issues. Prerequisites: BUL 4310 or BUL 4320 and graduate standing.

BUL 6830 Survey of Business Law (AC) (3). Overview of substantive and procedural aspects of contract law, U.C.C., partnerships and corporations, accountant's liability, and other aspects of government regulation of business. Prerequisite: Admission to a graduate program in the School of Accounting, or permission of the School Director. Not open to those with undergraduate accounting degrees.

BUL 6850 International Business Law (AC) (3). Analysis of legal problems facing the U.S. international and multinational businesses. Topics include the transnational research of economic regulation, international trade and investment, antitrust law, technology transfers, and securities

BUL 6890 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. (on demand)

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

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 5495 Leasing and Mergers (FI) (3). Discussion-oriented course; will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisite: FIN 3424 or FIN 6428, or equivalent.

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

FIN 6325 Current Issues in Commercial Banking (FI) (3), Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of the financial sector. Prerequisite: FIN 6326 or equivalent. (on demand)

FIN 6326 Commercial Banking (FI) (3). The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions. Prerequisite: FIN 6428.

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

FIN 6418 Working Capital Management (FI) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 6428.

FIN 6426 Financial Management Policies (FI) (3). Advanced theories and applications underlying financial decision making. Case studies and model building. Topics may include valuation, capital structure, dividend policy, restructuring, mergers and acquisition, corporate bankruptcy, agency theory, and initial public offerings. Prerequisite: FIN 6428.

FIN 6428 Corporate Finance (FI) (3). In-depth examination of asset, liability and capital structure management, with emphasis on valuation capital budgeting techniques; risk evaluation; working capital management; and methods of short-term, intermediate

and long-term financing. Prerequisite: ACG 6026 or equivalent.

FIN 6436 Capital Budgeting and Long Term Resource Allocation (FI) (3). The theory of capital allocation at the level of the firm, and empirical findings. Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: FIN 6428.

FIN 6446 Competitive Strategy (FI) (3). Provision of tools for managerial decision-making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure and com-petitive 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 the instructor and FIN 6428.

FIN 6456 Quantitative Methods in Financial Analysis (FI) (3). Introduction to mathematical and statistical methods used in finance. The applications of computer techniques to financial management. Prerequisite: FIN 6428 or equivalent.

FIN 6487 Financial Risk Management - Financial Engineering (FI) (3). A survey of financial instruments used for financial risk management, including forwards, futures, options and swaps. Emphasis is on identification of financial risks and designing optimal risk management program. Prerequisite: FIN 6426 or FIN 6515.

FIN 6515 Securities Analysis (FI) (3). An analysis of securities and the organization and operation of their markets. The determination of the risk reward structure of equity and debt securities and their valuation. Special emphasis on common stocks. Other topics include options, mutual funds and technical analysis. Prerequisite: FIN 6428.

FIN 6525 Portfolio Management (FI) (3). Practical and theoretical problems associated with the techniques of optimal portfolio selection, construction, and revision. The portfolio objectives of individuals, corporations and funds. Measurement of portfolio performance and related empirical evidence. The role of computers in

portfolio management. Prerequisite: FIN 6515.

FIN 6538 Financial Futures and Fixed Income Investments (FI) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Valuation, hedging, speculative activity, and other futures related risk management issues are discussed. The varieties of fixed income securities and their default risk. The valuation of fixed income securitites and their use in the investment and risk management. Prerequisite: FIN 6246 or FIN 6515.

FIN 6550 Behavioral Finance and Market Microstructure Rehavioral finance studies how human behavior affects investment and financial decisions by including biases Market microand dependence. structure examines intraday price, volume and volatility behavior. Prerequisite: FIN 6428.

FIN 6625 International Bank Management (FI, 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. Prereqisite: FIN 6428.

FIN 6626 International Bank Lending Policies and Practices (FI, MA) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans. Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio. Prerequisite: FIN 6428.

FIN 6636 International Finance (FI, MA) (3). A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. 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 6638 International Capital Markets (FI) (3). An exhaustive study of the current institutional aspects of the financial and monetary systems of the developed and emerging markets. Topics will include detailed discussions of capital markets including stock exchanges and the international assest pricing models. Prerequisite: FIN 6428 or permission of the instructor.

FIN 6644 Global Financial Strategy (3). Aspects of strategic financial environment and management of firms that operate in a global arena; to include recent developments in financial strategy, international trade and economic decision making. Prerequisite:FIN 6428

FIN 6645 Global Finance for Executives (FI) (3). Deals with the theoretical and empirical aspects of the financial management of firms that operate in an international business environment. Prerequisite: FIN 6428.

FIN 6656 Latin American Financial Markets and Institutions (3). An evaluative overview of the money and capital markets in Latin America. Topics include review of the most recent literature on regulation and deregulation, globalization, regional markets, privatization, banking innovations, the role of foreign banks, and currency boards in Latin America. Applicable cases will be discussed. Prerequisite: FIN 6428.

FIN 6804 The Theory of Finance (FI) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6428 or equivalent.

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

FIN 6915 Master's Project in Finance (FI) (1-6). An individualized research project and report, which may include field experience with a firm or agency; library research; computer

programming; or project development. The course should be taken during the last half of the student's graduate program. Consent of faculty tutor and Department Chairperson required.

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

FIN 6943 Finance Internship (FI) (1-3). Student placement within a financial institution, business firm or other organization for the purpose of providing practical experience to supplement theoretical classroom instruction. Periodic reports and conferences required. Permission of the instructor and Department Chairperson.

FIN 7527 Seminar in Investments (FI) (3). Examines analysis and measurement problems of investments. Includes the application of statistical techniques, current theoretical issues and empirical literature. Prerequisite: Permission of the instructor.

FIN 7536 Seminar in Futures Markets (FI) (3). A comprehensive examination of the literature in futures markets. Emphasizes the structure and pricing of futures, and risk-management via hedging and arbitrage. Prerequisite: Permission of the instructor.

FIN 7606 International Corporate Finance (FI) (3). The study of topics of research interest to international financial decisions. Topics include foreign exchange risk, international financial markets, and foreign exchange market efficiency. Prerequisite: Permission of the instructor.

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

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

FIN 7809 Financial Theory 11 (FI) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of the instructor.

FIN 7810 Financial Theory III (FI) (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 signaling theory. Prerequisite: Permission of the instructor.

FIN 7811 Seminar in Financial Markets and Institutions (FI) (3). Examines recent developments in economic and financial theories as applied to topics such as the structure of financial markets and the economics of information and financial institutions. Prerequisite: Permission of the instructor.

FIN 7812 Seminar in Options and Contingent Claims (FI) (3). An examination of the theories of option valuation and arbitrage pricing, and their applications to security analysis, portfolio management and financial instrument valuation. Prerequisite: Permission of the instructor.

FIN 7816 Seminar in Portfolio Theory (FI) (3). Examines investment and portfolio theory, with emphasis on the historical development of the literature in this area and the recent analytical and empirical work. Prerequisite: Permission of the instructor.

FIN 7818 Foundations of Financial Models (FI) (3). Introduction to mathematical and economic models underlying the development of modern finance theory. Includes discrete and continuous time models in finance using stochastic calculus. Prerequisite: Permission of the instructor.

FIN 7845 Statistical Methods in Finance I (FI) (3). Estimation, and testing of various economic and financial models. Emphasis on econometric techniques to deal with various problems of single-equation models and introduction to simultaneous equation. Prerequisite: Instructor's permission.

FIN 7846 Statistical Methods in Finance II (FI) (3). Emphasis on econometric techniques and multivariate statistics as applied in finance.

Includes simultaneous equation models, multiple discriminant analysis and factor analysis. Prerequisite: Instructor's permission.

FIN 7855 Financial Economics I (FI) (3). An advance doctoral course covering selected advanced topics in Microeconomic foundations and other topics related to business. Emphasis will be on economics of uncertainty, agency problems, information and signaling. Prerequisite: ECO 7115 or Permission of the instructor.

FIN 7856 Financial Economics II (FI) (3). An advanced doctoral course covering selected advanced topics in the theory of macrofinance. Emphasis will be on financial intermediation. Prerequisite: ECO 7206 or Permission of the instructor.

FIN 7906 Finance Doctoral Independent Study (3). Supervised research projects determined by professor and student. May involve conferences, supervised reading, and reports. Prerequisites: Consent of sponsoring professor and Chairperson required. (on demand)

FIN 7916 Finance Doctoral Research Project (3). Intensive research project conducted during the summer following the student's first and second years of coursework. Each student develops his/her own research project under the supervision of a faculty member. Prerequisite: Graduate standing. (on demand)

FIN 7936 Finance Doctoral Seminar (3). College colloquium series featuring presenters from various academic disciplines and businesses. Prerequisite: (on demand).

FIN 7980 Ph.D. Dissertation (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

FIN 7981 Finance Dissertation
Preparation (3). Preparatory background research and study to begin
development of dissertation proposal.
Students should be able to complete
proposal by the end of the course.
Prerequisites: Completion of TIER 1
courses. (on demand)

GEB 6907 Community Service Learning (3). The Integration of classroom theory with experimental learning in community service participation, development, and management of community service projects, especially those associated with the business community.

GEB 6941C Graduate Business Internship (3-6). This program allows graduate students to work in jobs significantly related to their major area of study and career goals. This is supervised work with carefully designed and monitored work assignments. Specific placement must be approved by the faculty advisor prior to enrollment. Work performed on the current job cannot be used for internship credit. Prerequisite:

GEB 7906 Independent Study for Doctoral Students (1-15). Supervised research projects determined by professor and student. May involve conferences, supervised reading, and reports. Consent of sponsoring professor and chairperson required. (on demand)

GEB 7910 Quantitative Research Methods In Business (3). This course introduces a structured approach to quantitative research methods such as surveys, experiments, data analysis, and multi-criteria analysis of judgements.

GEB 7911 Qualitative Research Methods in Business (3). This course introduces a structured approach to qualitative research in business. It includes study of methods such as case studies, ethnography, archival studies, and action research.

GEB 7916 Doctoral Research Project In Business (BA) (1-15). Intensive research project conducted during the summer following the student's first and second years of coursework. Each student develops his/her own research project under the supervision of a faculty member. Prerequisite: Graduate standing. (on demand)

GEB 7930 Seminar on Research in Emerging ICT and their Impications (3). This seminar will examine research on emerging information technologies, their application, and their implications for organizations and strategy.

GEB 7931 Seminar on Research in Emerging Organizations (3). Globalization, de-regulation, and information-communication technologies are changing how organizations are coordinated and managed. This seminar examines emerging research in managing such organizations.

GEB 7932 Seminar on Research in Managing Distributed Operations (3). This seminar examines research issues arising as a consequence of global distribution of operations, as enabled by ICT and globalization of business.

GEB 7933 Seminar on Research in Measurement and Valuation in Knowledge Economy (3). Examination of research on measurement and relationship assets in knowledge economy.

GEB 7934 Business as Dynamic Systems (3). This seminar course provides a systems theoretic framework for understanding and analysing organizations. Hard and Soft Systems, Systems Dynamics, Complexity Theories are examined.

GEB 7935 Seminar on Research in Collaborative and Competitive Strategies in Global Economy (3). This seminar course examines research in emerging strategic transition from competitive to cooperative strategies in the context of internationalization and globalization.

GEB 7936 Doctoral Seminar in Business Administration (BA) (1). College colloquium series featuring presenters from various academic disciplines and businesses. (on demand)

GEB 7937 Seminar on Research in Acquiring and Implementing IS (3). Examination of research and theory on the acquisition, development, implementation of information systems.

GEB 7980 Ph.D. Dissertation (BA) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisite: Permission of More Professor and Doctoral Candidacy.

GEB 7981 Dissertation Preparation (1-10). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by the end of the course. Prerequisite: Completion of TIER 1 courses. (on demand)

ISM 6045 Current Economic and Social Implications of Information Systems (DS) (3). Effects and implications of socioeconomic factors in the operation of information systems

and interdependence with the legal and international business environment. Privacy and fraud; computer system purchase and lease contracts; economics of system design, selection and operation; electronic fund transfers and mail; international considerations. Prerequisites: MAN 6830 and MAN 3025.

ISM 6106 Systems Analysis (DS) (3). A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives; identifying system boundaries and constraints; marshaling resources for achieving system objectives; analyzing the sub-components of the system and their respective objectives; and managing the system. Prerequisites: MAN 6830, CGS 3403, and COP 2210.

ISM 6136 Data Mining and Analysis
(3). Introduction to concepts of data
mining, survey of techniques, models
and applications. Comprehensive
access and analysis of the organization
data warehouse. Examination of
knowledge discovery process to extract
business rules and decision-aids.
Prerequisite: Permission of Department
and Introductory Statistics.

ISM 6155 Information Systems
Development (DS) (3). Concepts and
methods used in the analysis and
design of MIS. Feasibility study,
system flow charting, data requirements analysis, data design, user
friendly systems design. Systems
design project. Prerequisite: MAN
6830 or equivalent.

ISM 6156 Enterprise Information Systems (DS) (3). Introduces concepts of enterprise-wide computing, information architecture, process design, data models, and client/server computing.

ISM 6157 Enterprise System Configuration (DS) (3).

ISM 6158 Enterprise-Wide System Administration (DS) (3). This course will expose students to key aspects involved in the implementation and operation of the R/3 system and will provide the technical and conceptual foundation necessary for developing appropriate strategies and approaches for implementation and maintenance of an enterprise-wide system.

ISM 6205 Database Management (DS) (3). The course addresses techniques for structuring and managing data in organizations. Discusses

data concepts, data modeling, database requirements definition, conceptual, logical, and physical design, data administration, and distributed database management. Prerequisite: MAN 6830.

ISM 6217 Database Administration (3). Administration of the physical realization of database, which includes studying physical database design, understanding database server architecture, studying recovery, and tuning the database. Prerequisite: ISM 6205.

ISM 6222 Telecommunications
Network (DS) (3). This course will
focus on providing the student with
fundamental understanding of the
various concepts involved in modern
data communica-tion and networking
installations, along with its
implications in the design of
information systems.

ISM 6225 Global Applications of Information Technology (3). Examines information technology use in the international arena, e.g. for communication within a multinational corporation, or communication with customers, suppliers in another country. Topics include: transborder data flow; global connectivity through Telecommunications; IT transfer across national boundaries, management of IT in multinational corporations; case studies or global IT use. Prerequisite: MAN 6830 or equivalent.

ISM 6305 Information Systems Planning (DS) (3). An in-depth study of systems concepts, as they apply to information systems in organizations. Consideration of planning for systems development and its accomplishment through the phases of the life cycle, and of the overall management of the information systems function. Pererequisites: MAN 6830 and MAN 3025.

ISM 6316 Project Management of Information Sciences (3). This course examines the defining characteristics of IT projects and introduces a variety of relevant techniques. The course includes project manager functions like managing scope, time, quality, and cost. Prerequisites: ISM 6205, ISM 6106, ISM 6156.

ISM 6326 Information Security (3). This course explores firwalls, digital signatures, encryption and other methods of security. It teaches students

how to implement these techniques in the development and maintenance of information systems. Corequisite: ISM 6222.

ISM 6357 Computer Administration (DS) (3). The theory and computer management. Topics include selection, training, job and performance evaluation, and incentive schemes as they relate to key positions of systems analysis, programming, data preparation and entry, and project management. Special attention is given to human resources management and development at various levels within the EDP department.

ISM 6405 Management Support Systems (DS) (3). Concept of decision support is examined in a management decision context. Types of applied decision support and expert systems in business are surveyed. Prerequisite: MAN 6830.

ISM 6423 Knowledge Management (3). This course explores the basic concepts of managing organizational intellectual capital, including appropriate information technologies ranging from intranets to Artificial Intelligence.

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

ISM 6507 Electronic Commerce
Strategy (3). This course will teach
students strategies for the electronic
commerce landscape to help them
develop and execute a business plan for
creating an e-business startup.
Prerequisites: Technlogy of EC; ISM
6316.

ISM 6930 Special Topics in Management Information Systems (DS) (1-6). To study the recent developments in the MIS field not otherwise offered in the curriculum, such as office automation, computer graphics, etc. Prerequisites: Advanced standing and department chairman approval.

ISM 7083 Deterministic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of deterministic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7087 Probabilistic Decision Models (DS) (3). This course deals with the optimal decision making and modeling of probabilistic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7126 Seminar on Systems
Analysis (DS) (3). A system theoretic
approach to understanding and
analysing the role of information in
organizations. Includes systems
approach, systems dynamics, soft
systems and complexity theoretic
prospects.

ISM 7152 Seminar on System Acquisition and Implementation (DS) (3). Theory and research on methodologies, tools, and techniques for acquiring, developing, and implementing information systems in organizations.

ISM 7306 Seminar on Strategy and Information Resource (DS) (3). Theory and research on strategic perspective on the management of the information resources. Relates IT strategy and management to corporate startegy.

ISM 7345 Seminar on IS and Organizations: Design and Impact (DS) (3). Theory and research on the impact of IS on organizational design and structure.

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 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 Chair-person's
approval.

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

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

MAN 6066 Business Ethics (MA) (3). Practical approaches for addressing ethical conflicts in organizational administration. Emphasis will be placed on developing participants' ability to accurately diagnose organizational ethics problems and determine constructive solutions.

MAN 6085 Introduction to E-Business (3). Survey of the various types of E-Business, their economic, financial, accounting, ethical, legal and regulatory implications and their impact on major traditional industries. Also, examines how to build business models leading to profitable business. Prerequisite: Acceptance of the degree program.

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 6145 Intuition in Management (MA) (3). Interdisciplinary study of intuition and its applications in management. Apply learnings in a term project. Prepare Intuitive Experience Logs to discover intuition firsthand. Prerequisite: Computer Competency.

MAN 6157 Wellness Management (2). This course focuses on the management of employee well-being, broadly defined and including safety. security, mental, attitudinal, and healthrelated outcomes.

MAN 6204 Organization 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 6209 Organization Design and Behavior (MA) (3). Covers how managers interact with organizations to accomplish complex tasks examining how strategy, structure and systems interact with behavioral variables.

MAN 6245 Organizational Behavior (MA) (3), Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions to improve organizational effectiveness. Research methods to study organizational behavior.

MAN 6265 Group Processes in Organizations (MA) (3). The social and psychological processes of organizational functioning. The roles played by small groups 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 6297 Labor Issues and Conflict Management (3). This course covers skills to enhance conflict management of disputes. It is designed to teach students methods to productively manage interpersonal disputes between/among parties.

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 development at various organizational levels.

6316 Human Resource Management Effectiveness (3). This course focuses on the linkage between human resources and the organization's financial plan. This includes budgeting, controlling, and measuring HRM impact.

MAN 6317 Critical Thinking In Human Resource Management (2). This course focuses on developing critical thinking skills to solve complex and multidemnsional human resource management problems. The course will emphasize the analysis and discussion of cases.

MAN 6321 Personnel Selection and Placement (MA) (3). Individual differences and their measurement in personnel selection and job placement. Job design and redesign.

MAN 6327 High Performance Human Resource Management (3). This course focuses on human resource practices that motivate and empower employees to excel on their job by fostering their participation and involvement in organizational decisionmaking.

MAN 6328C Applied Methods in Human Resource Management (3). This course focuses on the application of research design and measurement theory to solve human resource problems. The emphasis is on applied methodology rather than on statistical issues.

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 6336 Reward Systems Management (3). This course covers all aspects of compensation and reward systems such as the strategic alignment of compensation and other HR systems. job evaluation, merit - and skill-based pay, cost-effective benefit programs, and flexible pay.

MAN 6347 Performance Management (3). This course focuses on the development and implementation of effective performance management systems. Multi-source, and electronic performance monitoring will be covered.

MAN 6351 Personnel Training and Development (MA) (3). Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity management.

MAN 6356 Professional Development Seminar I (1).

MAN 6357 Professional Development Seminar II (1).

MAN 6358 Professional Development Seminar III (I).

MAN 6359 Human Resource Knowledge Management (3). This course focuses on the development of the organization's human capital. The identification of learning needs, current and future performance problems, and leadership development will be discussed.

MAN 6365 Staffing Organizations (3). This course focuses on the identification, recruitment, selection and promotion of successful employees.

MAN 6367 Career and Succession Planning (2). This course is based on an integrated "system thinking" model used to create and manage effective succession planning and leadership development processes.

MAN 6368 Human Resource Deployment (3). This course focuses on the staffing, organization, training, and management of rapid response operations.

MAN 6385 Human Resource
Strategy and Planning (3). This
course discusses the notion of strategic
planning in the context of human
resurce management. Alignment of
culture and strategy. HR inventories
and forecasting.

MAN 6403 Employment Law and Human Resource Management (3). This course focuses on the legal and regulatory factors surrounding human resources management. The emphasis will be on creating awareness of legal constraints when making HR business decisions.

MAN 6405 Labor Relations (MA) (3). Examines the collective bargaining system in the United States from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention is given to the negotiation and administration of agreements.

MAN 6411 Collective Bargaining Topics (MA) (3). An advanced course in labor relations for students with some background who desire more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations, are treated at length.

MAN 6416 Corporate Negotiations (MA) (3). An examination and analysis

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

MAN 6446 Negotiations (MA/ME) (3). Negotiations are the processes of creating agreements between two or more parties. This course will introduce students to the art of negotiations in business transactions. The class will include a wide variety of negotiation cases.

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, govern-mental agencies, service organizations, and industrial concerns. Prerequisite: QMB 6357 or Pass QMB waiver exam.

MAN 6525 Managing for Total Quality (3). Addresses underlying management assumptions, methods, tools, culture and philosophy of total quality management - TQM.

MAN 6529 Seminar in Production Control Systems (DS) (3). The control systems for production operations automation and its impact on organizations. Integrated operational-simulation approach. Group and individual projects.

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 decisionmaking problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603 or equivalent. MAN 6585 Productivity Management Seminar (DS) (3). Analysis of productivity in manufacturing and service organizations and methodology for productivity improvement. Extensive cases, projects, tours, and guests speakers. Prerequisite: Graduate students (or CBA certificate students).

MAN 6601 International Management (MA) (3). This course examines the functions of management in an international context: organization, communication, strategic planning, control, motivation, leadership, and human resource management. The topics include the cultural differences behind different managerial styles and customs.

MAN 6603 Problems in Comparative Management (MA) (3). Discussion of literature, readings, and cases, aimed at underscoring the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

MAN 6606 International Business Environment (ME, MA) (3). A macro-examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications and societal forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

MAN 6608 International Business (MA) (3). This course examines the environmental variables affecting international operations, trade and investment theories, international institutions, and regional economic groups. It also focuses on international finance, international accounting, international marketing, and international management problems and issues.

MAN 6615 International Labor-Management Relations (MA) (3). Comparative analysis of selected industrial relations systems and impact on multinational firms and international labor movements. Emphasis on empirical models and managementoriented 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 6626 International Human Resource Management (3). Decisions about how to recruit, train, compensate, and manage global employees; crosscultrual differences in values; managing the international asignee.

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

MAN 6675 Special Topics in International Business (MA) (3). For groups of students who wish to study intensively a particular topic, or a limited number of topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Approval of the faculty advisor, Department Chairperson, and Dean.

MAN 6676 Global e-Business Environment (3). Systematic review of the economic, financial, socio-political and infrastructure environments in which global e-business activity takes place. Introduces methods to evaluate the opportunities and constraints for e-business in a country. Prerequisite: Intro to e-business.

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 6703 Colloquium in Managing Organizational Ethics (1). Manage-

ment issues, responsibilities, and techniques associated with public and private expectations for ethical performance of large-scale organizations.

MAN 6706 Crisis Management (3). Response to crises such as product recalls, product tampering, industrial accidents, and violence in the workplace.

MAN 6715 Business Environment and Public Policy (MA) (3). An examination of the economic, political, social and moral context in which management decisions are made. The focus is on the public policy environment of business, whereby community direction is transformed into corporate behavior.

MAN 6726 Strategic Management (MA) (3). The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Should be taken in the last semester of master's program.

MAN 6727 Doing Business in the Marketplace (DS) (3). Give students practical lessons on the emerging world of the marketplace & teach them how to manage and make money there. Show how managing in the marketplace works with managing in the marketplace Prerequisite: MAN 6330.

MAN 6746 Global Environmental Management (ME) (3). An exploration of the national, regional, and global forces emerging and influencing the management of the business firm's impact on the physical environment. A review existing and developing environmental management theories and control systems for business.

MAN 6758 Project Consulting (3). Introduction to the basic principles, methodologies and tools of modern business consulting and project management as practiced by the large management consulting firms. Prerequisite: MAN 6830.

MAN 6805 Entrepreneurship (MA) (3). A discussion of the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects.

MAN 6830 Organization Information Systems (DS) (3). Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 6830L Organization Information Systems Laboratory (DS) (1). Laboratory applications for MAN 6830.

MAN 6908 Independent Study in Business Environment (MA) (3). Independent project in the political, economic, social, cultural, ethical, or governmental relations environment of business. Directed study with a business environment faculty member. Percequisites: MAN 6715, MAN 6606 and Permission of the instructor.

MAN 6910 Research Methods in Management (MA) (3). Covers the research methods and analytical techniques most widely used in research in human resources and general management. Emphasis is on helping students to become more aware of current techniques and their applications.

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 6937 Special Topics in Business Environment (3). A review of a contemporary dimension of business' environment in a field of faculty specialization. Prerequisites: MAN 6523, MAN 6606 or equivalent.

MAN 6974 Master's Project in Management (MA) (1-6). Each

student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College.

MAN 6xxx Colloquium in Managing Organizational Ethics (ME) (1). This course introduces students to core concepts and practices of managing ethical issues in business firms. Using cases, readings and speakers from the business community, the course teaches leadership skills and organiza-tional design strategies to resolve ethical business dilemmas in personal-ly, professionally and environmentally responsible ways. Topics covered include: personal values and ethics; creating and maintaining ethical work climates; ethical issues in stakeholder management, ethics in the global business environment, and ethical issues in managing technology and innovation.

MAN 7146 Leadership I (MA) (3). Course identifies leadership theories and research bearing on modern management practice. Behavioral, situational and transformational theories of leadership are emphasized, compared and evaluated.

MAN 7147 Leadership II (MA) (3). Draws on research and case studies for understanding of adaptive leadership in turbulent, uncertain environments. Emphasis on effective management of innovation, entrepreneurial activity and new ventures.

MAN 7148 Intuition in Management (3). In-depth study of the nature and development of the intuitive process emphasizing its role in management decision making and its relationship to rational problem solving. Prerequisite: Permission of the instructor. Corequisite: MAN 7148L.

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, teambuilding and action research.

MAN 7207 Theories of Organization (MA) (3). Organization functioning from a macro perspective; emphasis on evolution, structure, design and processes of complex systems. Study of communication/information networks, inter-group processes and control strategies.

MAN 7235 Management Philosophy and Strategy (MA) (3). Compares various cross-cultural philosophies to structure and function of different types of organizations. Emphasis on how to develop and implement a management strategy for maximum productivity in different organizations.

MAN 7275 Organizational Behavior Management (MA) (3). An introduction to the study of human behavior in organizations. Emphasis is given to management of individual and group processes including conflict attitudes, decision making, motivation and stress.

MAN 7305 Human Resource Management (MA) (3). Personnel management topics including personnel selection, performance appraisal, training design, employee development, and compensation administration. Legal and practical issues are emphasized.

MAN 7412 Labor-Management
Topics (MA) (3). Presents various
aspects of the labor-management
relationship to provide a contemporary
perspective. Emphasis on structure,
processes, strategies and legal issues in
collective negotiation and industrial
relations.

MAN 7529 Seminar In Operations Management (DS) (3). Concepts, tools and recent research developments in the design, planning and control of operations management systems in business and service organizations. Prerequisite: ISM 7083. Corequisite: ISM 7084.

MAN 7609 Comparative Management (MA) (3). Course focus is crosscultural management, i.e., how cultural values influence managerial behavior. The problems of cross-cultural communications, leadership, motivation, and decision making are examined. Prerequisites: Admission to Doctoral program and completion of Doctoral core.

MAN 7616 Multinational Firm Global Strategy (MA) (3). Overview of the strategic management and international business concepts that frame strategic activity in MNCs. Competitive business strategies in global and multidomestic industries. Prerequisite: Completion of business Ph.D. core.

MAN 7620 International Business Operations I (MA) (3). Examination of the functional management, operations and concems of international businesses. Emphasizes analysis of problems in managing joint ventures, licensing, barter, and technology transfer. Prerequisites: Admission to Doctoral program and completion of doctoral core.

MAN 7621 Intervational Business Operations II (MA) (3). Focus on political, economic, and national security issues which influence IB operations or strategies. Examines techniques for political and economic risk, assessment and reactions to such influences. Prerequisites: Admission to Doctoral program and completion of doctoral core.

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

MAN 7718 Analysis of Corporate Policy Methods (MA) (3). Links functional areas of management to provide integrated view of organization and public policy. Emphasis on measurement, analysis and conceptualization of organization as a totality of operations.

MAN 7895 Seminar in Management (MA) (3). Key concepts in management ranging from individual worker styles to business ethics. Emphasis on topics such as men and women in organization, decision making styles, and attribution management.

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

MAR 6075 Current Issues in Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing. Prerequisite: MAR 6805.

MAR 6158 International Marketing (ME) (3). This course discusses the nature and scope of international marketing, and explores problems facing multinational firms and other international marketing organizations. together with strategies for foreign market penetration. Prerequisite: MAR 6805.

MAR 6336 Integrated Marketing Communication (ME) (3). A broad introduction to the field of integrated marketing communications and how it fits into the marketing plan. Discussion of objective setting, budgeting, and media planning, as well as the strategic planning and evaluation of advertising media, sales promotion, public relations, direct marketing, personal selling and marketing communications on the internet. Prerequisite: MAR 6805

MAR 6406 Sales Management (ME) (3). Analysis of personal selling's roles in marketing strategy using detailed case studies on field sales management, working with channel organization, and planning and controlling operations. Prerequisite: MAR 6805.

MAR 6506 Consumer Behavior (ME) (3). Modern comprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes. Prerequisite: MAR 6805.

MAR 6646 Managing Marketing Information (ME) (3). The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher. Prerequisite: MAR 6805 or Permission of the instructor.

MAR 6675 Database Marketing (ME) (3). A practical approach to the use of database information to solve marketing problems. Emphasis is on obtaining, managing and using information about current and potential customers. Topics include data acquisition, data mining, list segmentation and customer modeling, and direct marketing, relationship marketing and customer lifetime value applications.

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

6722 E-Marketing MAR (3). Examines how e-business can transform the traditional marketing mix and how fundamental principles of marketing can be applied to develop ebusiness marketing plans. requisites: MAN 6085 (Intorduction to E-Business).

MAR 6805 Marketing Management in the Global Environment (ME) (3). Analysis and application of theory and problem solving for marketing management in the global environment. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

MAR 6816 Corporate Simulation (ME) (3) Course emphasis is on application and integration of concepts and tools, through participation in the marketing management of a firm in competition with other firms. The course's focal point is a computerized marketing management simulation. Prerequisite: ACG 6175, FIN 6428 & MAN 6501.

MAR 6819 Marketing Strategy (ME) (3). A study of strategic marketing planning through case analysis and selected readings. Emphasis is on and problem solving planning processes, particularly directing, planning, organizing, coordinating, and controlling as applied to a contemporary market-oriented organization. Prerequisites: MAR 6805 equivalent.

MAR 6838 Brand Management (ME) (3). The focus of this course is to provide a sound understanding of the function, issues and challenges of the brand or product manager. The scope of the course embraces U.S. and international situations and emphasis will be placed on analysis, strategy development and practical decision making. The course will draw on the students prior exposure to marketing management, research advertising and promotion and will provide insights and practice in application of these

skills in the context of the product manager's roll in the enterprise.

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 6XXX Negotiations (ME) (3). This course introduces students to the art and science of negotiations. The science involves learning about theories and methodologies which have been developed as guides for improving negotiated outcomes, and the art involves building negotiating skills and developing an understanding of one's own negotiating style through a series of realistic negotiations cases. The class will include a wide variety of negotiation cases, from two-person through multi-party and from simple issues of selling prices to multi-issue bargaining siutations.

MAR 6XXX (e)Marketing (ME) (3). This course is designed to familiarize students with internet marketing. In particular, the course provides students with an understanding of the theory and practice of marketing on the internet. The course will include a critical evaluation of internet applications appropriate to marketing management. Although both b2b and b2c applications are discussed. emphasis on one or the other will vary, depending on the instructor.

MAR 7205 Seminar in Channels of Distribution (ME) (3). Covers readings from the marketing, economics, logistics, organizational behavior, social psychology, and sociology literatures in developing a research perspective on channels of distribution.

MAR 7246 Seminar in International Marketing (ME) (3). Examines major topics and theories in the international marketing literature. Analyzes various perspectives on business activities and strategies in global markets.

MAR 7507 Seminar in Consumer Behavior (ME) (3). Covers the major topics and theoretical perspectives in consumer behavior research, with emphasis on consumer decision making.

MAR 7622 Marketing Research
Methodology I (ME) (3). Philosophy,
concepts, methods of marketing research design. Experimental methods,
sampling procedures, measurement
techniques, other methodological
considerations. Prerequisites: Successful completion of first year research
methods requirements in a College of
Business Ph.D. Program or Permission
of the instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the role of marketing professionals in responding to social, economic, political, technological and ecological changes in the business environment. Addresses issues of marketing ethics, social accountability, and the design of responsible marketing strategies.

MAR 7652 Seminar in Advertising and Persuasion (3). Covers the major topics and theoretical perspectives within the research literature addressing persuasive communications.

MAR 7665 Seminar in Marketing Models (3). Examines the process of model building and the assumptions implicit in various modeling decisions. Emphasis in on learning to interpret, classify and critically evaluate models of marketing phenomena. Prerequisites: Calculus, Probability Theory, Statistics, and Matrix Algebra.

MAR 7667 Seminar in Marketing Management (ME) (3). Covers programs of research related to the management of marketing organizations and their role in improving organizational performance. Current and potential research topics will be considered from the perspective of leading scholars and marketing executives.

MAR 7786 Seminar in Marketing Theory (ME) (3). Intensive analysis of the nature and role of hypotheses. generalizations, and empirical regularities. Critical examination of theories of marketing and interaction of marketing theory and practice.

MAR 7815 Seminar in Foundations of Marketing Thought (ME) (3). Foundations of marketing, inter-disciplinary relationships, reviews major research areas: the marketing mix, consumer choice models,

segmentation, stochastic, and analytical models.

MAR 7845 Seminar in Services Marketing (ME) (3). Analyzes the nexus between services and marketing management. Identifies and appraises alternative corporate strategies within industries such as banking and finance, insurance, hospitality, entertainment and leisure, health care, and education.

MAR 7875 Sectorial Marketing (ME) (3). Course includes retailing, wholesaling, pricing, distribution, advertising, sales promotion and management, personal selling, international services and macromarketing; and marketing and economic development.

MAR 7979 Doctoral Research in Marketing (ME) (1-6). Research while enrolled for a doctoral degree under the direction of faculty members. Permequisite: Permission of Department.

QMB 6357C Business Analysis for Decision Making (3). Review of the relevant quantitative techniques required for business analysis and decision making, including decision models, mathematical programming, statistics and forecasting. This is a WebCT and Excel based course. Prerequisites: College Algebra, computer literacy and working knowledge of Excel.

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. (F)

QMB 6905 Independent Study in Decision Sciences (DS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Department Chairperson and Dean required. P/F only.

QMB 6934 Seminar in Decision Sciences (DS) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. Consent of instructor required.

QMB 6974 Project in Decision Sciences (DS) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College and approved by the Department Chairperson.

QMB 7935 Seminar in Decision Sciences (DS) (3). Critical review and analysis of recent and important research developments in the area of decision sciences. Prerequisites: ISM 7083 and ISM 7087.

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

Permission of Accounting certificate program advisor.

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

TAX 5405 Taxation of Estate and Gift (3). The study of the federal estate tax and federal gift tax provisions. Prerequisites: Permission of Accounting Certificate program advisor.

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

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

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

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

TAX 5904 Independent Study In Taxation (AC) (3). Individual conferences, supervised readings, reports on personal investigations. Prerequisite: Written Permission of the instructor, Accounting certificate program advisor, School director, and dean

TAX 5936 Special Topics in Taxation (AC) (3). Intensive study for groups of students of a particular topic or topics not otherwise offered in the curriculum. Prerequisite: Written permission

instructor, Accounting certificate program advisor, School director, and dean.

TAX 6005 Income Tax (AC) (3). A survey of federal income taxation, with emphasis on the taxation of individuals and corporations and the ethics of income tax accounting. Prerequisites: ACG 6115 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

TAX 6026 Value-Added Tax Strategies for Business Decisions (3). Development and implementation of a tax-based framework to assist business decision makers and their advisors in the design of sound strategies when considering alternative business transactions. Prerequisite: Permission of School of Accounting.

TAX 6065 Tax Research (AC) (3). An in-depth study and application of both readitional and computer-assisted tax research tools and of relevant practice and procedural mechanisms affecting taxation. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6105 Taxation of Corporations I (AC) (3). The study of federal tax consequences of the formation and operation of corporations; distributions and redemptions; elections of Subchapter S status. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6107 Federal Corporate
Taxation (3). Study of the federal
income taxation provisions affecting
the formation, operations, liquidation,
acquisition, and reorganization of
Subchapter C corporations. Prerequisite: Permission of School of
Accounting.

TAX 6115 Taxation of Corporations II (AC) (3). The study of federal tax consequences of the liquidation and reorganization of corporations; multiple corporations; advanced topics in corporate taxation. Prerequisites: TAX 6105 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6205 Partnershlp Taxation (AC) (3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited).

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

TAX 6206 Taxation of Small Businesses (3). Study of small business entitles, emphasis on partnerships, limited liability companies and S coporations; includes choice, formation and operation of above and distributions, sales and exchanges of owernship in interests and transfers by death. Prerequisite: Permission of School of Accounting.

TAX 6305 State and Local Taxation
(3). The Constitutional, statutory, regulatory, and judicial principles affecting state and local taxation of business transactions, with emphasis on Florida taxation. Prerequisite: Permission of School of Accounting.

TAX 6405 Estate and Gift Taxation (AC) (3). The study of the federal estate tax and federal gift tax provisions. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

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

TAX 6445 Estate Planning (AC) (3). An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and post-mortem planning. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6446 Wealth Transfers (3). Study of gift estate, and generation-skipping transfer taxes and taxation of estates and trusts; use of estate planning tools: lifetime gifts, life insurance trusts, martial bequests, postmortem estate planning. Prerequisite: Permission of School of Accounting.

TAX 6505 International Taxation I (AC) (3). Federal income tax

provisions applicable to non-resident aliens and foreign corporations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6507 Principles of International Taxation (3). Study of the federal income tax provisions applicable to foreign persons' U.S. income and to U.S. persons' foreign income. Prerequisite: Permission of School of Accounting.

TAX 6515 International Taxation II (AC) (3). Federal income tax provisions applicable to U.S. persons, business, and investment activities outside the U.S. Prerequisite: TAX 6505 and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6726 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6026 or equivalent and permission of Accounting advisor. Not open to EMST or MACC students.

TAX 6805 Tax Policy (AC) (3). A study of the tax accounting concepts and the judicial doctrines inherent in the federal tax law, tax planning, and tax policy. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6835 Taxation of Deferred Compensation (AC) (3). The taxation of qualified and non-qualified pension and profit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6875 Current Developments in Taxation (AC) (3). The study of recent legislative, administrative and judicial developments in taxation. Prerequisites: At least four additional graduate tax courses and admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6876 Transactions in Property (AC) (3). An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis

on personal property transactions and securities investments. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

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-forporfit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6905 Independent Study in Taxation (AC) (1-3). Individual conferences, supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6935 Special Topics in Taxation (AC) (1-3). Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Admission to a graduate program in the School of Accounting or permission of the School Director.

TAX 6XXXC Tax Research, Practice, and Procedures (3). Study of the tax environment, the tax law and its interpretations, tax research tools, and of revelant practice and procedural mechanisms affecting taxation. Prerequisite: Permission of School of Accounting.

TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

TAX 7815 Seminar: Tax Policy: An Analysis of the Issues (AC) (3). An indepth examination of the horizontal and vertical equity issues in taxation, the effects on income distribution, business decisions, foreign balance of payments, public finance issues, and economic policy. Emphasized are the areas of empirical research vis a vis legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 5245 Transportation LogIstics (ME) (3). Quantitative methods

applied to solving problems in business logistics; mathematical and statistical models; optionalization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

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

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

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

TRA 6936 Special Topics In Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

College of Business Administration

Executive Dean Jovce J. Elam Dean, Alvah H. Chapman. Jr., Graduate School of

Jose de la Torre Business Associate Dean,

Finance and

Administration Donald W. Fair

Associate Dean, Academic Affairs and

Undergraduate Clifford Perry **Programs**

Assistant Dean, Undergraduate Advising

Lvnda Raheem

Assistant Dean, Marketing, Communication and

Publications Sally M. Gallion Director, School of

Dana A. Forgione Accounting

Department Chairs:

Decision Sciences and Information

Christos Koulamas Systems William Welch

Finance Management and

International K. Galen Kroeck **Rusiness** J.A.F. Nicholls Marketing

Faculty

Anderson, Gary, Ph.D. (University of Illinois), Associate Professor, Finance

Auster, Rolf, Ph.D. (Northwestern University), CPA, CMA, Professor, Accounting

Barber, Joel, Ph.D. (University of Arizona), Associate Professor,

Bates, Constance S., D.B.A. (Indiana University), Associate Professor, Management and International Business and Barsky-Greenstein Professor

Batra, Dinesh, Ph.D. (Indiana University), Associate Professor, Decision Sciences and Information Systems.

Bear, Robert M., Ph.D. (University of Iowa), Professor, Finance

Becerra-Fernandez, 1rma, Ph.D. (Florida International University), Assistant Professor, Decision Sciences and Information Systems

Berry, Delano H., Ph.D. (University of Kentucky), CMA, Instructor, Accounting

Beste, Steve, M.B.A. (Florida International University), Director, Executive MBA Program

Bierwag, Gerald O., Ph.D. (Northwestern University), Ryder System Professor of Business Administration, Finance

Browner, Ellie, M.Ed. (Florida International University), Director. Graduate Admissions and Student Services

Chang, Chun-Hao, Ph.D. (Northwestern University), Associate Professor, Finance

Chang, Lucia, Ph.D. (University of Texas at Austin), Professor Emeritus, Accounting

Corrales, Maria, M.B.A. (Florida International University), Counselor and Advisor

Daigler, Robert T., Ph.D. (University of Oklahoma), Professor, Finance

Dandapani, Krishoan, Ph.D. (Pennsylvania State University), Professor, Finance

Daniels, Vincent, M.B.A. (Thunderbird University), Director, International MBA Program

Davidson, Lewis F., Ph.D. (Pennsylvania State University), Professor, Accounting

de la Torre, Jose, D.B.A. (Harvard University), Byron Harless Eminent Scholar in Management Development, Management and International Business, and Dean, Alvah H. Chapman, Jr., Graduate School of Business

Dessler, Gary, Ph.D. (City University of New York), Professor, Management and International Business

Dickson, Peter R., Ph.D. (Univeristy of Florida), Professor and Knight Ridder Eminent Scholar, Marketing

Dleguez, Manuel, M.S.M. (Florida International University), CPA, Lecturer and Associate Director, Accounting

Dittenhoffer, Mort, Ph.D. (American University). Professor Emeritus. Accounting

Dorsett, Herman W., Ed.D. (Columbia University), Associate Professor, Management and International Business

Drakatos, Stylianos, M.S. (Ohio State University), Visiting Lecturer, Decision Sciences and Information Systems

Dugan, Timothy, M.B.A. (Baruch College, C.U.N.Y.), Visiting Instructor, Marketing

Dupoyet, Brice, Ph.D. (University of Washington), Assistant Professor, Finance

Elam, Joyce, J., Ph.D. (University of Texas-Austin), Professor, Decision Sciences and Information Systems, James L. Knight Eminent Scholar, and Executive Dean

Ellis, S. Christopher, M.B.A. (Florida International University), Instructor, Decision Sciences and Information Systems

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

Farrow, Dana, Ph.D. (University of Rochester), Professor, Management and International Business and Faculty Advisor, IMBA Program

Forgione, Dana A., Ph.D. (University of Massachusetts at Amherst), CPA, CMA, CFE, Professor and Director, School of Accounting

Friday, Earnest, Ph.D. (University of Miami). Assistant Professor. Management and International Business

Gallion, Sally M., Ph.D. (University of Missouri), Assistant Dean, Marketing

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

Gelman, Wendy, J.D. (University of Miami), Lecturer, School of Accounting

Gilbert, G. Ronald, Ph.D. (University of Southern California), Associate Professor, Management and International Business

Gomez, Carolina, Ph.D. (University of North Carolina), Assistant Professor, Management and International Business

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

Gray, C. Delano, M.S., (New York University), CIA, CBA, CFE, CFSA, Lecturer and Program Manager, EMST and MACC, Accounting

Greenberg, Barnett A., D.B.A. (University of Colorado), Professor, Marketing

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

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

Hamid, Shahid, Ph.D. (University of Maryland), Associate Professor, Finance and Faculty Director, MSF Program

Henry, Kenneth, M. Acc. (Florida International University), Visiting Lecturer, Accounting

212

- Hogner, Robert H., Ph.D. (University of Pittsburgh), Associate Professor, Management and International Business
- Kaleem, Faisal, M.S. (Florida International University), Instructor, Decision Sciences and Information Systems
- Keys, James D., M.B.A. MSF (Florida International University), Instructor, Finance
- Klonarides, Gerard, M.B.A. (Laverne University), Lecturer, Decision Sciences and Information Systems
- Koulamas, Christos P., Ph.D. (Texas Tech University), Professor and Chair, Decision Sciences and Information Systems
- Kozloski, Laura, Ph.D. (University of Miami), Lecturer, Management and International Business
- Kroeck, K. Galen, Ph.D. (University of Akron), Professor and Chair, Management and International Business
- Kumar, Kuldeep, Ph.D. (McMaster University, Hamilton, Canada), Professor and Ryder Eminent Scholar, Decision Sciences and Information Systems
- Kyparisis, George J., D.Sc. (George Washington University), Professor, Decision Sciences and Information Systems
- Lassar, Walfried, Ph.D. (University of Southern California), SunTrust Professor, Marketing
- Lavin, David, Ph.D. (University of Illinois), CPA, Associate Professor, Accounting
- Lee, Chih-Chen, Ph.D. (Southern Illinois University), Assistant Professor, Accounting
- Levy, Yair, M.B.A., (Florida International University) Instructor and Online Learning Project Manager, Decision Sciences and Information Systems
- Li, Tiger, Ph.D. (Michigan State University), Associate Professor, Marketing
- Long, Cherie, Ph.D. (University of Texas-Austin), Assistant Professor, Decision Sciences and Information Systems
- Lubell, Myron, D.B.A. (University of Maryland), CPA, Associate Professor, Accounting
- Magnusen, Karl O., Ph.D. (University of Wisconsin), Professor, Management and International Business
- Maidique, Modesto A., Ph.D. (Massachusetts Institute of

- Technology), Professor, Management and International Business, and University President
- Mandakovic, Tomislav, Ph.D. (University of Pittsburgh), Professor, Decision Sciences and Information Systems
- Manheimer, Peter, J.D. (University of Miami), Lecturer, Accounting
- Martin, J. Randall, M.A. (University of Miami), Lecturer, Management and International Business
- McCosh, Andrew, D.B.A. (Harvard University), Chapman Eminent Scholar in Management and Ethics, Management and International Business
- Minlard, Paul, Ph.D. (University of Florida), BMI Professor of Marketing, Director of Ph.D. Program, Marketing
- Mintchev, Ligia M.S. (European University), Instructor, Decision Sciences and Information Systems
- Mishra, Suchismita, Ph.D. (University of Nebraska-Lincoln), Assistant Professor, Finance
- Miyazaki, Anthony, Ph.D. (University of South Carolina), Assistant Professor, Marketing
- Moncarz, Raul, Ph.D. (Florida State University), Professor, Finance and Vice Provost, Academic Affairs
- Moss, Sherry, Ph.D. (Florida State University), Associate Professor, Management and International Business and Faculty Advisor, Executive M.B.A. Program
- Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor Emeritus, Accounting
- Munro, Michael S., M.B.A. (Stanford University), Visiting Instructor, Marketing
- Murphy, Kenneth E., Ph.D. (Carnegie Mellon University), Assistant Professor, Decision Sciences and Information Systems
- Newman, Charles, Ph.D. (Pace University), Coordinator, E-Business Initiatives
- Nicholis, J.A.F., D.B.A. (Indiana University), Professor and Chair, Marketing
- Noguera, Jose, Ph.D. (Louisiana State University), Assistant Professor, Decision Sciences and Information Systems
- Oliva, Robert R., Ph.D. (Florida International University) CPA, Professor, Accounting
- Ollveira, Manoel, Ph.D. (Florida International University), Instructor, and Director of Technology,

- Decision Sciences and Information Systems
- Ortiz, Marta, Ph.D. (University of Miami), Associate Professor, Marketing
- Parhizgari, Ali, M. Ph.D. (University of Maryland), Professor, Finance
- Paul, Karen, Ph.D. (Emory University), Professor, Management and International Business
- Perry, Clifford, Ph.D. (Purdue University), Distinguished Executive Professor, Research Fellow, Knight-Ridder Center Management and International Business and Associate Dean
- Polster, Eleanor, M.B.A. (Florida International University), Graduate Advisor
- Prakash, Arun, Ph.D. (University of Oregon), Professor, Finance
- Prietula, Michael J., Ph.D. (University of Minnesota), Ryder Systems Eminent Scholar Chair, Accounting
- Raghunandan, Kannan, Ph.D. (University of Iowa), Professor, Accounting
- Raheem, Lynda, M.B.A. (University of Miami), Instructor, Marketing, and Assistant Dean
- Rama, Dasaratha V., Ph.D. (University of Iowa), Professor, Accounting
- Rodriguez, Leonardo, D.B.A. (Florida State University), Professor, Accounting, and Management and International Business
- Rody, Raymond, Ph.D. (University of Southern California), Assistant Professor, Marketing
- Roomes, Donald, M.B.A. (Florida International University), Instructor, Management and International Business and Director, Weekend BBA
- Rose-Green, Ena, Ph.D. (Florida State University), CPA, Visiting Assistant Professor, Accounting
- Sanchez, Juan, Ph.D. (University of South Florida), Associate Professor, Management and International Business and Faculty Advisor, MSM, HR Track
- Seaton, Bruce, Ph.D. (Washington University), Associate Professor
- Shepherd, Philip, Ph.D. (Vanderbilt University), Associate Professor, Management and International Business
- Silverblatt, Ronnie, Ph.D. (Georgia State University), Associate Professor, Management and

International Business

Smith, Larry A., Ph.D. (State University of New York at Buffalo), Associate Professor, Decision Sciences and Information Systems

Surysekar, Krishnamurphy, Ph.D. (University of Maryland), Assistant Professor, Accounting

Taylor, Kimberly, Ph.D. (University of Pennsylvania), Associate Professor, Marketing

Truex, Duane, Ph.D. (State University of New York-Binghamton), Assistant Professor, Decision Sciences and Information Systems

Tsalikis, John, Ph.D. (University of Mississippi), Associate Professor, Marketing

Vidaver-Cohen, Deborah V., Ph.D. (Columbia University), Associate Professor, Management and International Business

Von Glinow, Mary Ann, Ph.D. (The Ohio State University), Professor, Management and International Business and Director, CIBER

Wang, Tel-Wel, Ph.D. (University of Missouri), Assistant Professor, Decision Sciences and Information Systems

Wass, Lauren, B.S. (Florida International University), Counselor and Advisor

Welch, William W., Ph.D. (University of Michigan), Associate Professor and Chair, Finance

Wheatley, Clark, Ph.D. (Virginia Polytechnic Institute), CPA, Associate Professor, Accounting

Wishart, Nicole, M.B.A. (University of Miami), Lecturer, Decision Sciences and Information Systems

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

Wyman, Harold, Ph.D. (Stanford University), Professor Emeritus, Accounting

Xia, Ann, M.Acc. (Florida International University), Visiting Professor, Decision Sciences and Information Systems

Zanakis, Steve H., Ph.D. (Pennsylvania State University), Professor, Decision Sciences and Information Systems

Zdanowicz, John S., Ph.D. (Michigan State University), Professor and Director, Jerome Bain Real Estate Institute, Finance

Zegan, Peter J., M.S. (University of Florida), Instructor, Decision Sciences and Information Systems

College of Education

College of Education

The College of Education exists in an urban, multicultural setting and has a three-part mission. The first is to prepare professionals who have the abilities and dispositions to facilitate and enhance learning and development within diverse settings. The second is the discovery and dissemination of knowledge related to learning, teaching, and development. The third is the development of professional partnerships to promote meaningful educational, social, economic and political change. Our mission supports:

- > Curricula that reflect sound theory and best practice.
- Qualified and diverse students and graduates.
- Qualified and diverse faculty active in teaching, research and
- > Effective governance and organizational structure within an environment of open communication among faculty, administrators, staff, students and community.
- Collaborative and mutually beneficial partnerships with schools and other organizations.
- Visibility at local, state, national and international
- Continuous improvement of the

The College offers instructional programs at the undergraduate and graduate levels, engages in research and program development activities, and provides field services to the educational community. conceptual framework guiding education curricula and programs in the College is grounded in four core concepts that are central to the vision faculty have of professional educators graduating from the College's interconnprograms: intercultural, ectedness, inquiry, and instructional leadership.

The College, housed in the Sanford and Dolores Ziff Education Building (ZEB) at Florida International University-University Park, is fully accredited by the National Council for the Accreditation of Teacher Education, the Florida Department of Education, and the State University System.

To support its mission, the College is organized into four separate but related departments:

- Educational Leadership and Policy Studies
- Educational and Psychological Studies
- Health, Physical Education, and Recreation
- Curriculum and Instruction

Applicants to the College's programs should carefully examine the choices of major concentrations and program objectives. Because there occasional revisions to the College of Education's curriculum during the academic year, some curriculum changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General advisement is available by telephone: (305) 348-2768 University Park, (305) 919-5820 for Biscayne Bay Campus. Broward residents may call (954) 355-5622 for Biscayne Bay Campus or for the Broward Program. Dade residents may call (305) 760-5622 for the Broward Program. Additional information is available on the FIU website at www.fiu.edu. Specific 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 Legislature and the State University System. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that the requirements have been

It is recommended that students meet with their advisors throughout the program to assure adequate progress.

Masters, Specialist, and Doctoral Degrees

Graduate studies offered by the College provide specialization in degree programs developed reflect individual student interests. A graduate ргодтат mav include courses. seminars, field experiences, research courses, theses, and dissertations, depending upon the student's level and area of emphasis.

Master of Science Degree Programs

Master of Science degree programs are offered in the following specialties:

Adult Education Art Education Counselor Education School Counseling

Mental Health Counseling Track Early Childhood Education Educational Leadership **Elementary Education** English Education 6-12 Exercise and Sport Sciences:

- Athletic Training Track
- Exercise Physiology Track
- Strength and Conditioning Track

Home Economics Education (Family and Consumer Sciences Education)

Human Resource Development International Intercultural Development Education

Mathematics Education Modern Language Education French Spanish

Music Education (see College of Arts & Science, School of Music)

Parks and Recreation Management Recreational Therapy Track Physical Education

Sports Management Track Reading Education

Science Education: Biology, Chemistry, and Physics Social Studies Education

Special Education: Varying Exceptionalities/ESOL Track

Teaching English to Speakers of Other Languages (TESOL) Technology Education

Urban Education Instruction in Urban Settings

Multicultural: Bilingual Education

Multicultural: TESOL Learning Technologies Vocational Home Economics

Vocational Education

Administration and Supervision Track

Vocational Industrial Education

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

Specific programs may have higher standards for admission. Having a minimum GPA and/or GRE score does not assure admission to a program. Admission is subject to the approval of

program faculty.

Prior to formal admission to a graduate program, students may be approved to enroll in up to 15 semester hours of 5000 level graduate credit as non-degree seeking students, 12 of which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Graduate students will complete at least 30 semester hours of study beyond the bachelor's degree to earn a Master of Science degree in education. However, specific programs may require more than the minimum number of hours. Students may transfer a maximum 6 semester hours taken at another accredited college or university toward a master's degree program having 30-45 semester hours, and a maximum 9 semester hours toward a program having more than 45 semester hours with advisor's approval.

Master's program students must maintain an overall GPA of 3.0 in order to graduate. No more than two grades of 'C' and no grades of 'C-' or less received in courses that are part of a master's degree program of study will be accepted toward graduation.

No more than one workshop course may be included in a master's degree program.

Alternate Masters Degree Tracks

Applicants who hold a bachelor's degree in a field other than education and wish to teach may want to pursue an Alternate Masters Program. These are state approved programs leading to State of Florida teacher certification plus a master's degree for the following programs:

Art Education
English Education/ESOL
Mathematics Education
Modern Language Education
Music Education
Science Education
Social Studies Education
Varying Exceptionalities/ESOL

Admission requirements include those required of any graduate student in a M.S. level degree program. addition, students must pass all sections of the CLAST. After July I, 2002, students may substitute scores of 1000 in the GRE for the CLAST. New graduation requirements are in effect for all students entering initial teacher preparation programs beginning Fall 2001. Candidates must pass all three sections of the new Florida Teacher Certification Exam, have a GPA of 3.0. and successfully demonstrate the Florida Educator Accomplished

Note: Students who pass the CLAST prior to July 1, 2002 will be waived from taking the new General Knowledge test. Please see your faculty advisor to be certain all requirements are met.

Approval pending for a change in degree name to MAT. See advisor for current status.

Educational Specialist Degree Programs

Education Specialist degree programs are offered in the following specialties:

- Curriculum and Instruction: Instructional Leadership
- Educational Leadership
- School Psychology

The programs require a minimum of 36 semester hours of course work at the University beyond the Master's degree. However, specific programs may require more than the minimum number of hours and may include six semester hours of thesis if that option is chosen.

Admission requirements and transfer of credit are the same as for the master's programs.

Doctor of Education Degree Programs

- Adult Education and Human Resource Development
- Curriculum and Instruction
 - Educational Administration and Supervision
- Exceptional Student Education
- Higher Education

Doctor of Education Degree Program Specialties

Doctor of Education degree programs are offered in the following specialties:

- Adult Education and Human Resource Development Vocational and Technical Education Leadership Track International and Intercultural Development Education Specialization
- Specialization
 Curriculum and Instruction
 Art Education Specialization
 Early Childhood Education
 Specialization
 Elementary Education
 - Specialization
 English Education

Specialization Instructional Leadership

Specialization
International and Intercultural

Development Education
Specialization

Modem Language Education Specialization

Mathematics Education Specialization

Specialization Reading Education

Specialization Science Education

Specialization
Social Studies Education

Specialization
Teaching English to Speakers
of Other Languages

 Educational Administration and Supervision

(TESOL)

- Exceptional Student Education
 - Higher Education
 Administration
 Instruction

Advisement for these programs may be obtained by calling the appropriate department office or by contacting the Office of Advanced Graduate Studies at (305) 348-2723. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by

examining program descriptions in this catalog.

Fingerprint Requirement

State of Florida Teacher Certification, in addition to other criteria, requires all applicants to be fingerprinted and checked by the FBI. Some school districts also require a fingerprint check for student interns and/or student teachers. Students with a history of felony arrests may wish to consider this carefully, and seek advice from an advisor before applying to programs in the College.

Curriculum and Instruction

Gail P. Gregg, Associate Professor, English Education and Chair Cengiz Alacaci, Assistant Professor,

Mathematics Education

Kingsley Banya, Professor, Curriculum Studies, International and Comparative Education

Maria A. Bilbao, Assistant Dean. Elementary Education

Charles Bleiker, Associate Professor, Early Childhood Education

Richard Campbell, Professor, Science Education

David Y. Chang, Professor, Art Education

Lisheth Dixon-Krauss, Associate Professor, Literacy Education

Eric Dwyer, Assisitant Professor, TESOL and Modern Language Education

Mohammed K. Farouk, Associate Dean of Academic Affairs

Joyce C. Fine, Associate Professor, Literacy Education

Allen Fisher, Associate Professor, Learning Technologies

Zhonghong Jiang, Associate Professor, Mathematics Education and Computer Education

Sharon W. Kossack, Professor, Literacy Education

Hilary Landorf, Assistant Professor, Social Sudies/Global Education

Nancy Marshall, Associate Professor, Literacy Education

Luis A. Martinez-Perez, Associate Professor, Science Education

Edwin McClintock, Professor, Mathematics Education and

Computer Education Alicia Mendoza, Associate Professor,

Elementary Education Lynne D. Miller, Associate Professor,

Literacy Education

George E. O'Brien, Associate Professor, Science Education

Aixa Perez-Prado, Assistant Professor, TESOL

Francisco Ramos, Assistant Professor, TESOL

William M. Ritzi, Instructor, Art Education

Linda Spears-Bunton, Associate Professor, English Education

M. O. Thirunarayanan, Associate Professor, Learning Technologies S. Lee Woods, Associate Professor,

Educational Foundations and

General Instructional Stategies

General Information

The Department of Curriculum and Instruction offers graduate programs leading toward the Master of Science, the Education Specialist, and the Doctor of Education degrees.

Additionally the department offers Alternate Masters Tracks of many of its programs for students who do not hold a bachelor's degree in education. These programs lead to State of Florida teacher certification.

The department is also committed to the generation and application of knowledge through research and service to the community.

Alternate Master of Science **Programs**

Art Education (K-12) Biology Education (6-12) Chemistry Education (6-12) English Education (6-12)/ESOL French Education (K-12) Mathematics Education (6-12) Music Education (K-12) (See College of Arts and Sciences, School of Music)

Physics Education (6-12) Social Studies Education (6-12)

Advanced Master of Science Programs

Art Education Early Childhood Education Elementary Education **English Education** Learning Technologies (See MS in Urban Education, Department of Educational Leadership and Policy Studies)

Mathematics Education Modern Language Education Music Education (see College of Arts & Sciences, School of

Music) Reading Education Science Education Social Studies Education Teaching English to Speakers of Other Languages (TESOL)

Educational Specialist Program Curriculum and Instruction

Specializations in:

- Art Education
- · Early Childhood Education
- Elementary Education
- English Education
- · Instructional Leadership
- · Learning Technologies Mathematics Education
- Modern Language/Bilingual Education

- Reading Education
- Science Education
- Social Studies Education

Doctoral Program

Curriculum and Instruction Specializations in:

Art Education

- Early Childhood Education
- Elementary Education
- English Education
- International/Intercultural Development Education
- Instructional Leadership
- Learning Technologies
- Mathematics Education
- Modern Language/Bilingual Education
- Music Education (See College of Arts and Sciences, School of Music)
- Science Education
- Social Studies Eduction

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured Program admission admission. requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

*Master of Science: Alternate Track

The Alternate Track modifies the existing master's degree programs to accommodate candidates with baccalaureate degree appropriate to the certification area but without certification and are seeking entry into the teaching profession. This alternate track is no less rigorous than the existing master's degree program, but includes courses which provide the necessary background in professional education together with the master's level academic course work.

Approval pending for a change in degree name to MAT. See advisor for current status.

Admission Requirements

Entry requirements include a bachelor's degree or a strong minor (30 hours with a 3.0 or higher in the major subject area) in a certifiable teaching area such as the following: Art, Biology, Chemistry, English, Mathematics, Modem Languages. Music, Social Sciences and History, on and a minimum 3.0 cumulative GPA for the two most recent years of study or a combined GRE score of 1000. In

either case, the GRE score must be submitted. A passing score on all four sections of the CLAST is also required. If taken before July 1, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE. 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.

New graduation requirements are in effect for candidates entering COE programs on and after Fall 2001.

Graduation Requirements

- 1. An overall GPA of at least 3.0
- Successful demonstration of all of the Florida Educator Accomplished Practices at the Preprofessional level
- Passing score on all three sections of the Florida Teacher Certification Examination.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

This degree program requires a minimum of four semester sequence of full-time study which includes two Summer Terms, a Fall and a Spring Term and will consist of 45-48 semester hours, depending on each student's previous academic preparation.

Alternate Track Requirements

All students admitted to these tracks will complete the following courses as well as the graduate program courses in each of the chosen fields.

EDF 5443	Measurement and	
	Evaluation in the	
	Classroom	3
EDF 5517	Education in American	
	History	3
EDG 5414	Instructional Strategies	
	in Teaching	3
EDP 5053	Educational Psychology	:
	Principles and	
	Applications	3
EEX 6051	Educational Needs of	
	Students with	
	Exceptionalities	3
ESE 5344C	Secondary Classroom	
	Management	3
RED 5339	Subject Related	
	Reading	3
TSL 5xxx	ESOL Issues and	
	Strategies for Content	
	Teachers	3
Special Teach	ing Lab: Area	3
	ning (Practicum)	6

Applications to student teaching are due in the office of the Director of Student Teaching by July 1 for Spring semester placement, and by March 1 for Fall semester placement. Check with the program leader early in program enrollment to determine Fall placement availability.

Specific program requirements vary depending upon applicant's bachelor's degree program, see program faculty for advisement. Contact the department (305) 348-2003 for complete program descriptions.

Alternate Track Masters Program in Art Education (K-12)

Degree Program Hours (45)

Admission Requirements:

- 1. BFA or a bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Fine Arts and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. In either case, a score for the GRE must
- be submitted.

 2. Passing scores on all four sections of the CLAST. This test may be waived if the candidate has a score of 1000 or higher on the GRE.
- 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 her designee following a personal interview.

Required Courses (45)

Required C	ourses (45)	
EDF 5443	Measurement and	
	Evaluation in the	
	Classroom	3
EDF 5517	Education in American	
	History	3
EDG 5414	Instructional Strategies	
2237	in Teaching	3
EDP 5053	Educational Psychology	/ :
	Principles and	
	Applications	3
EEX 6051	Educational Needs of	
	Students with	
	Exceptionalities	3
ESE 5344C	Secondary Classroom	
	Management	3
RED 5339	Subject Related	
	Reading	3
TSL 5xxx	ESOL Issues and	
	Strategies for Content	
	Teachers	3
ARE 4316	Special Teaching Lab:	
	Art	3
		_

		-
ARE 4341	Special Teaching Lab	:
	Art 7-12	· 3
ARE 5945	Practicum in	
	Art Education	6
ARE 6140	Curriculum and	
	Instruction in Art	3

Graduation Requirements

- An overall GPA of at least 3.0
 Successful demonstration of all of the Florida Educator
 Accomplished Practices at the
- Preprofessional level
 3. Passing score on all three sections of the Florida Teacher Certification Examination.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Alternate Track Masters Program in Biology Education (6-12)

Degree Program Hours (42)

Admission Requirements:

- A bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Biology and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. In either case, a score for the GRE must
- be submitted.

 2. Passing scores on all four sections of the CLAST. If taken before July 1,
- of the CLAST. If taken before July 1, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE.

 3. In addition to the minimum GPA
- 3... 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 her designee following a personal interview.

Measurement and

Required Courses (42)

EDF 5443

ESE 6215

	Evaluation in the	
	Classroom	3
EDF 5517	Education in American	
	History	3
EDG 5414	Instructional Strategies	
	in Teaching	3
ESE 5344C	Secondary Classroom	
	Management	3
EDP 5053	Educational Psychology	:
	Principles and	
	Applications	3
EEX 6051	Educational Needs of	
	Students with	

Exceptionalities

Secondary School Curriculum 3

3

-		~ .	•
irac	luate	Cata	log

College of Education

3

3

3

3

3

3

3

3

3

RED 5339 Subject Related Students with EDG 5414 Instructional Strategies Reading 3 Exceptionalities 3 in Teaching TSL 5xxx ESOL Strategies for ESE 5344C Secondary Classroom Educational Psychology: EDP 5053 Content Teachers 3 Management 3 Principles and SCE 4330 Special Teaching Lab: ESE 6215 Secondary School Applications Science 3 Curriculum 3 EEX 6051 Educational Needs of SCE 5945 Practicum: Science **RED 5339** Subject Related Students with Education Reading 3 Exceptionalities SCE 6635 Teaching Science in TSL 5xxx ESOL Strategies for ESE 5344C Secondary Classroom Secondary School 3 Content Teachers 3 Management SCE 6933 Science Education **SCE 4330** Special Teaching Lab: ESE 6215 Secondary School Seminar 3 Science 3 Curriculum SCE 5945 Practicum: Science **RED 5339** Subject Related **Graduation Requirements** Education 6 Reading 1. An overall GPA of at least 3.0 SCE 6635 Teaching Science in TSL 5xxxC ESOL Issues and 2. Successful demonstration of all Secondary School 3 Principles I of the Florida Educator SCE 6933 Science Education TSL 5xxxC ESOL Issues and Accomplished Practices at the Seminar 3 Practices II Preprofessional level LAE 5336C Special Teaching Lab: 3. Passing score on all three sections of Graduation Requirements English the Florida Teacher Certification 1. An overall GPA of at least 3.0 LAE 5945 Practicum: English Examination. 2. Successful demonstration of all LAE 6339 Teaching Engslih in the Note: If CLAST is passed prior to July of the Florida Educator Secondary School 1, 2002, the new General Knowledge Accomplished Practices at the

Alternate Track Masters Program in Chemistry

subtest may be waived.

Education (6-12) Degree Program Hours (42)

Admission Requirements:

1. A bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Chemistry and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. either case, a score for the GRE must be submitted.

2. Passing scores on all four sections of the CLAST. If taken before July 1, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE.

3. In addition to the minimum GPA or the combined GRE score, or both. applicant must receive affirmative recommendation from the designated Program Leader, Dean of the College, or her designee following a personal interview.

Required Courses (42)

EDF 5443	Measurement and	
	Evaluation in the	
	Classroom	3
EDF 5517	Education in American	ı
	History	3
EDG 5414	Instructional Strategies	
	in Teaching	3
EDP 5053	Educational Psychology	y:
	Principles and	
	Applications	3
EEX 6051	Educational Needs of	

subtest may be waived. Alternate Track Masters

Preprofessional level

Examination.

3. Passing score on all three sections of

Note: If CLAST is passed prior to July

1, 2002, the new General Knowledge

the Florida Teacher Certification

Program in English Education (6-12)/ESOL

Degree Program Hours (45)

Admission Requirements:

I. A bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in English and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. In either case, a score for the GRE must be submitted.

2. Passing scores on all four sections of the CLAST. If taken before July I, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE.

In addition to the minimum GPA or the combined GRE score, or both, applicant must receive affirmative recommendation from the designated Program Leader, Dean of the College, or her designee following

Required Courses (45)

a personal interview.

EDF 5443	Measurement	and	
	Evaluation in	the	
	Classroom		3
EDF 5517	Education in	American	
	History		3

Graduation Requirements

Education

Seminar in English

LAE 6935

- 1. An overall GPA of at least 3.0
- 2. Successful demonstration of all of the Florida Educator Accomplished Practices at the Preprofessional level
- 3. Passing score on all three sections of the Florida Teacher Certification Examination.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Alternate Track Masters **Program in French Education** (6-12)

Degree Program Hours (51)

Admission Requirements:

1. A bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in the language of study and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. In either case, a score for the GRE must be submitted with a minimum score of 550 on the pencil/paper test or 213 on the computerized exam. 2. Passing scores on all four sections

of the CLAST. If taken before July I, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE.

In addition to the minimum GPA or the combined GRE score, or both, applicant must receive affirmative recommendation from the designated Program Leader, Dean of

History

in Teaching

Principles and Applications

Students with Exceptionalities

Management

Curriculum

Instructional Strategies

Educational Psychology:

Educational Needs of

Secondary Classroom

Secondary School

3

3

3

EDG 5414

EDP 5053

EEX 6051

ESE 5344C

ESE 6215

222

Prerequisites: (30) 30 credit hours at the junior or senior level including: Introduction to Linguistics 3 Grammar/Syntax/ Composition 12 Phonetics/Phonology 3 Culture/Civilization 3

Literature Required Courses (51) **EDF 5443** Measurement and Evaluation in the Classroom Education in American EDF 5517 History 3 EDG 5414 Instructional Strategies in Teaching **EDP 5053** Educational Psychology: Principles and Applications 3 Educational Needs of EEX 6051 Students with 3 Exceptionalities **ESE 5344C** Secondary Classroom 3 Management ESE 6215 Secondary School Curriculum 3 Subject Realted **RED 5339** 3 Reading TSL 5xxx **ESOL** Strategies for 3 Content Teachers FLE 5xxx FLES Methods 3 FLE 5945 Practicum: Modern 6 Language Methods of Teaching FLE 6336 Modern Language Seminar in Second **FLE 6938** Langauge Testing and Evaluation Grammar/Composition/Syntax course 5000 level or higher Specialize in language when possible 3 Culture/Civilization course 5000 level or higher Specialize in language when possible 3 Linguistic course 5000 level or higher Specialize in language when possible Phonetics/Phonology preferred Literature course 5000 level or higher Must be in language of specialization 3 Second langauge Acquisition course LIN 5720 Second Language 3 Acquisition TSL 5245 Developing Language 3 and Literacy **Graduation Requirements**

1. An overall GPA of at least 3.0

2. Successful demonstration of all of the Florida Educator

Accomplished Practices at the Preprofessional level

3. Passing score on all three sections of the Florida Teacher Certification Examination.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Alternate Track Masters Program in Mathematics Education (6-12)

Degree Program Hours (45)

Admission Requirements:

1. A bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Mathematics and a minimum of 3.0 cumulative GPA for the two most recent years of study or combined GRE score of 1000. In either case, a score for the GRE must be submitted.

2. Passing scores on all four sections of the CLAST. If taken before July 1, 2002, this test may be waived if the candidate has a score of 1000 or higher on the GRE.

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 her designee following a personal interview.

Required Courses (45)

iccyanica Co	Jul 303 (30)	
EDF 5443	Measurement and	
	Evaluation in the	
	Classroom	3
EDF 5517	Education in American	
	History	3
EDG 5414	Instructional Strategies	
	in Teaching	3
EDP 5053	Educational Psychology	:
	Principles and	
	Applications	3
EEX 6051	Educational Needs of	
2211 0001	Students with	
	Exceptionalities	3
ESE 5344C	Secondary Classroom	-
	Management	3
ESE 6215	Secondary School	•
202 0210	Curriculum	3
RED 5339	Subject Related	-
	Reading	3
TSL 5xxx	ESOL Strategies for	•
	Content Teachers	3
MAE 4333C	Special Teaching Lab:	-
	Mathematics	3
MAE 5655	Computers in	-
	Mathematics	
	Education	3
MAE 5945	Practicum:	-
37 10	Mathematics	6
		9

2. Successful demonstration of all

Accomplished Practices at the

of the Florida Educator

Preprofessional level

Graduate C	atalog					Col	lege of Education 2	23
RED 5339	Subject Reading			Students with		Prerequisit	es: (30)	
ICDE SUCS	Reading	3		Exceptionalities	3		urs at the junior or sen	ior
TSL 5xxx	ESOL Strategies for	_	ESE 5344C	Secondary Classroom		level includir		
TOD DAME	Content Teachers	3		Management	3		to Linguistics	3
SCE 4330	Special Teaching Lab:		ESE 6215	Secondary School			ntax/Composition	12
SCB 4330	Science	3		Curriculum	3	Phonetics/Ph		3
SCE 5945	Student Teaching	6	RED 5339	Subject Related		Culture/Civil		3
SCE 6635	Teaching Science in	·		Reading	3	Literature		6
SCE 0033	Secondary School	3	TSL 5xxx	ESOL Strategies for	-			
SCE 6933	Science Education	,	1020100	Content Teachers	3		Courses (51)	
3CL 0733	Seminar	3	SSE 5381	Developing a Global		EDF 5443	Measurement and	
		-	CDD CCC.	Perspective	3		Evaluation in the	_
	n Requirements		SSE 5385	Special Teaching Lab:	-		Classroom	3
	II GPA of at least 3.0		002 3000	Social Studies	3	EDF 5517	Education in America	
Successfi	ıl demonstration of all		SSE 5945	Practicum:	-		History	3
	rida Educator		000 37 13	Mathematics	6	EDG 5414	Instructional Strategie	
Accompl	ished Practices at the		SSE 6633	Teaching Social Studie			in Teaching	3
Preprofes	sional level		33E 0033	in the Secondary		EDP 5053	Educational Psycholo	gy:
3. Passing so	core on all three sections	of		School	3		Principles and	
the Flori	da Teacher Certification	on	SSE 6939	Seminar in	-		Applications	3
Examinati	on.		33E 0737	Social Studies		EEX 6051	Educational Needs of	
Note: If CL	AST is passed prior to Ju	ıly		Education	3		Students with	
1, 2002, the	new General Knowled	ge			,		Exceptionalities	3
subtest may	be waived.		Graduation	n Requirements		ESE 5344C	Secondary Classroom	
Altownoto	Track Masters			II GPA of at least 3.0			Management	3
	Track Masters		2. Successfu	l demonstration of all		ESE 6215	Secondary School	
Program	in Social Studies		of the Flo	rida Educator			Curriculum	3
Education	n (6-12)		Accompli	ished Practices at the		RED 5339	Subject Realted	
Danuas D	name Tlaura (45)		Preprofes	sional level			Reading	3
Degree P	rogram Hours (45)		3. Passing so	core on all three sections	of	TSL 5xxx	ESOL Strategies for	
Admission	Requirements:		the Flori	da Teacher Certification	on		Content Teachers	3
1. A bachel	or's degree or a		Examinati	on.		FLE 5xxx	FLES Methods	3
strong mino	r (30 hours with a 3.0 GI	PA	Note: If CL.	AST is passed prior to Ju	ıly	FLE 5945	Practicum: Modern	
	n History and/or the Soc			new General Knowled			Language	6
	nd a minimum of 3		subtest may			FLE 6336	Methods of Teaching	
	GPA for the two me		A 14	Tuesla Mastons			Modem Language	3
recent years	of study or combined GI	RE		Track Masters		FLE 6938	Seminar in Second	
	00. In either case, a sco		Program	in Spanish			Langauge Testing and	
	must be submitted.		Education	n (6-12)			Evaluation	3
	scores on all four sections. ST. If taken before July		Degree pr	rogram Hours (51)		Grammar/Co	omposition/Syntax cours 5000 level or higher	se
	test may be waived if t		Admission	Requirements:		Specialize in	language when possibl	e 3
	as a score of 1000 or high			or's degree or a		Culture/Civi	lization course 5000 lev	el
on the GRE				r (30 hours with a 3.0 GI	PA		or higher	
	ition to the minimum GI	PA		the language of study a		Specialize in	ı language when possibl	e 3
	bined GRE score, or bo			of 3.0 cumulative GPA		Linguistic co	ourse 5000 level or high	er
		an		t recent years of study or		Specialize in	language when possibl	e
	recommendation from				In	Phonetics/Pi	honology preferred	3
	Program Leader, Dean			a score for the GRE mi			ourse 5000 level or high	er
	or his designee followin			d with a minimum score		Must be in l	anguage of specializatio	n 3
personal int				pencil/paper test or 213			auge Acquisition course	
•			the compute			LIN 5720	Second Language	
	Courses (45)			scores on all four section	ons		Acquisition	3
EDF 5443	Measurement and			ST. If taken before July			or	
	Evaluation in the			test may be waived if t		TSL 5245	Developing Languag	e
EDE SSIE	Classroom	3		as a score of 1000 or high			and Literacy	3
EDF 5517	Education in America		on the GRE.			Cuaduatta		
EDC 111	History	3		ition to the minimum Gl	PA		n Requirements all GPA of at least 3.0	
EDG 5414	Instructional Strategie	3		bined GRE score, or bo			all GPA of at least 5.0	

the applicant must receive an

affirmative recommendation from the

designated Program Leader, Dean of

the College, or her designee following

a personal interview.

Educational Needs of

Educational Psychology:

in Teaching

Principles and

Applications

EDP 5053

EEX 6051

3

3. Passing score on all three sections of the Florida Teacher Certification Examination.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Advanced Master of Science Degree Programs

Applicants for admission to most Master's programs in Education must hold or qualify for Florida teacher certification in the appropriate area. For Early Chidlhood Education, applicants must hold or qualify for Florida certification equivalent or elementary, special or early childhood education (including practical teaching requirement). experience applicants must also satisfy Board of Education admission requirements. A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study or 1000 (total of verbal and quantitative) on the Graduate Record Examination (GRE). Applicants admitted with a pending GRE score must submit test score within one semester to be fully admitted or become a candidate for graduation. All applicants, regardless of GPA, must submit GRE score.

Master of Science in Art Education

Degree Program Hours: (42)

Education instruction Aut

Education, i	ncluding Art	
Education: (21)	
EDF 5481	Foundations of	
	Educational Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations of	
	Education	3
ARE 6140	Curriculum and	
	Instruction in Art	3
ARE 6262	Organization and	
	Coordination of School	
	and Community Art	
	Programs	3
ARE 6746	Seminar in Art	
	Education:	
	Contemporary Issues	
	and Research	3
ARE 6925-29	Workshop in Art	
	Education	6

Select one of the following:

Curriculum Design

3

for Childhood

Education

EDE 6205

	or	
ESE 6215	Secondary School	
	Teaching Field	3
	or	
EEX 6051	Education of Students	
	with Exceptionalities	3
EDS 6050	or Supervision and Staff	
ED3 0030	Development	3
	or	
EDF 5955	Field Study Abroad	3
Fine Arts		
Art History		3
Studio Art (Th	ree semester hours	
credit for each	studio course)	12
Master of S	Science in Early	
Childhood	•	
	gram Hours: (36)	
Required Se	quence of Courses:	
Year 1 Fall		
EEC 6261	Education Programs for	_
EDE ((00	Younger Children	3
EDF 6608	Social Philosophical and Historical Foundations of	
	Education	3
Spr		,
LAE 5415	Children's Literature	3
EDF 6211	Psychological Founda-	
	tions of Education	3
Sum		
LAE 6305	Instruction in Early	
	Childhood	,
EDF 5481	Language Arts Foundations Educationa	3
LDI 5401	Research	3
Year 2 Fall		
RED 6305	Instruction in Early	
	Childhood Reading	3
SCE 6306	Instruction in Early	
G	Childhood Science	3
Spri MAE 6305	Ing Instruction in Early	
WIAL 0303	Childhood	
	Mathematics	3
EEC 6xxx	Arts and Technology in	
	Early Childhood	
~	Education	3
SSE 6305	Imer	
33E 0303	Instruction in Early Childhood Social	
	Studies	3
EEC 6678	Research in Early	•
	Childhood Education	3
	rogram: Fall Semest	
Students are	encouraged to mee	t all
the program	uirements prior to begin	nning
maximum of	however students may t twelve (12) semester how	ake a
course work a	pplicable to the program	prior
to admission.	Fragium	,
	ession: Students should	take
courses in the	sequence shown above.	

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of "C" are permitted. Grades of "C-" or below will not be counted towards meeting program requirements.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

Master of Science in **Elementary Education**

Degree Program Hours: (36) Required Sequence of Courses:

•	•	
Year 1	Fall	
EDE 6205	Curriculum Design for	
	Childhood Education	3

EDF 6608 Social and Philosophical Foundations of Education 3 Spring RED 6314 Instruction in

3

3

3

3

Elementary Reading EDF 6211 Psychological Foundations of Education Summer

LAE 5415 Children's Literature EDF 5481 Foundations of Educational Research

Year 2 Fall RED5xxx Subject Related Reading 3 MAE 6318 Instruction in Elementary Mathematics3

Spring SCE 6315 Instruction in Elementary Science SSE 6355 Instruction in Elementary Social Studies

Summer ARE 6315 Instruction in Elementary Art

3 Research in Elementary **EDE 6488** Education Entry to Program: Fall Semester -

Students are encouraged to meet all admission requirements prior to beginning the program, however students may take a maximum of twelve (12) semester hours of course work applicable to the program prior

Block Progression: Students should take courses in the sequence shown above.

to admission.

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of "C" are permitted. Grades of "C-" or below will not be counted towards meeting program requirements.

Thesis Option: Students may opt to extend								
the	MS	program	(3	to	6	additional	thesis	
credit hours) by request.								

Master of Science in English Education

Degree	Program	Hours:	(36)

Degree Program Hours: (36)				
EDF 5481	Foundations of			
	Educational Research	3		
EDF 6211	Psychological			
	Foundations of			
	Education	3		
EDF 6608	Social, Philosophical,			
	and Historical			
	Foundations of			
	Education	3		
ESE 6215	Secondary School			
	Curriculum	3		
LAE 6339	Teaching English in the			
	Secondary School	3		
LAE 6935	Seminar in English			
	Education	3		
LAE 5426	Multicultural			
	Perspectives in			
	Language and Literature	3		
	or			
LAE 5465	Adolescent Literature	3		

Master of Science in **Mathematics Education**

Teaching field: English

Degree Pr	rogram Hours: (33)
EDF 5481	Foundations of
	Educational Research 3
EDF 6211	Psychologcal
	Foundation of
	Education 3
EDF 6608	Social, Philosophical
	and Historical
	Foundations of
	Education 3
MAE 5655	Computers in
	Mathematics Education 3
MAE 6336	Teaching Mathematics
	in the Secondary School 3
MAE 6899	Seminar in
	Mathematics Education 3
ESE 6215	Secondary School
	Curriculum 3
Teaching Fig	eld: Mathematics 15

Master of Science in Modern Language Education

Prerequisites

One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.

Degree Program Hours: (33)

EDF 5481	Foundations of	
	Educational Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3

EDF 6608	Social, Philosophical,			
	and Historical			
	Foundations of			
	Education	3		
FLE 6336	Methods of Teaching			
	Modern Language	3		
FLE 6938	Seminar in Second			
	Language Testing	3		
Teaching Fie	ld: Modern Language	15		
Grammar/Con	mposition/Syntax	3		
Specialize in	language when possible			
Culture/Civil	ization	3		
Specialize in culture of target language				
when possible				
Linguistics		3		
Specialize in	language when possible;			
course in phonology or phonetics				
preferred				
Literature in	the target language	3		
Applied Linguistics				
Field Compo	ment: (3)			
FLE 5908	Directed Study Foreign			
1 LL 3700	Language Education	1-3		
	or	1-3		
FLE 6925	Special Topics in			
F LE 0723	Second Language			
	Education	3		
	Education	5		

Master of Science in Music Education

(see College of Arts and Sciecnes, School of Music)

Master of Science in Reading Education

The Master's of Science in Reading Education develops competencies in diagnosis and remediation, teaching of reading K to 12, and administration and supervision of remedial, corrective, developmental, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and preventing reading failure in schools or clinics.

Requirements for admission to the program Master's in Reading Education are a Bachelor's Degree in Education and possess or be eligible for State of Florida professional teaching certificate and pass State of Florida Certification exams, and a 3.0 GPA or higher for the last 60 hours of upperdivision coursework.

This master's track is designed to meet the needs of students interested in reading assessment and instruction. This track leads to state certification.

Degree Program Hours: (36)

Required sequence of courses: Year 1 Term 1

RED 6314 Instruction in Reading 3

LAE 6319	Integrated Language Arts	3
Term 2		
LAE 5415	Children's Literature	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
Term 3		
RED 6336	Content Area Reading	3
EDF 5481	Foundations of	
	Educational Research	3
Year 2 Term	1	
RED 6546	Diagnosis of Reading	
KED 0340	Difficulties	3
RED 6515	Programs of	5
KED 0313	Remediation in Reading	3
Term 2	Kemediation in Reading	,
RED 6747	Research in	
KED 0747	Reading	3
EDF 6608	Social, Philosophical	,
LDI 0000	and Historical	
	Foundations of	
	Education	3
Term 3	Education	J
RED 6805	Practicum in Reading	3
RED 6247	Organization and	,
KED 024/	Supervision in Reading	3
	Supervision in Reading	J

Entry to Program:

Students are encouraged to meet all admission requirements prior to beginning the program, however students may take a maximum of twelve (12) semester hours of course work applicable to the program prior

Block Progression: Students should take Year 1 courses prior to Year 2 courses.

Graduation Requirements: Students must have a 3.0 GPA to graduate from the program. No more than two grades of "C" are permitted. Grades of "C-" or below will not be counted towards meeting program requirements. For candidates entering programs on or after Fall 2001, graduation requirements include passing scores on all sections of the Florida Teacher Certification Exam

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

Master of Science in Science Education

Degree Program Hours: (36) EDF 5481 Foundations

	of Educational Research	h
		3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations of	
	Education	3
ESE 6215	Secondary School	

	Curriculum	3
SCE 6635	Teaching Science in	
	the Secondary School	3
SCE 6933	Seminar in Science	
	Education	3
Teaching Fiel	d: Science	12
Biology or	chemistry or physics	or

Biology or chemistry or physics or courses from the following areas with approval of advisor: biology, chemistry, physics, geology, and environmental sciences. (For Middle School Teachers).

Advisor Approved Electives 6

Master of Science in Social Studies Education

Degree Program Hours: (36)

EDF 5481	Foundations of	
	Educational Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations of	
	Education	3
SSE 6633	Teaching Social Studies	
	in the Secondary School	3
ESE 6215	Secondary School	
	Curriculum	3
SSE 6939	Seminar in Social	
	Studies Education	3
Content Specia	alization: History and/or	
the Social Scient	ences	12
Advisor Appro	oved Elective	3
SSE 4380	Global Perspectives	3
	(required if not already	
	taken as part of	
	baccalaureate degree)	

Master of Science in Teaching English to Speakers of Other Languages (TESOL)

Degree Program Hours: (36)

The Master of Science in TESOL is designed to provide specialized training and content knowledge for teachers of all levels of ESOL, K through 12, adult education and community college education. Students who are state certified teachers may include the five courses required for the Add-on ESOL Endorsement as part of the Master's program.

Admission Requirements

To be admitted into the Master's degree program, a student must: a) hold a bachelor's degree from an accredited university or college; b) have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree; or have a combined

score (verbal and quantitative) of 1000 or higher on the Graduate Record Examination; or hold a master's degree from an accredited university or college; in any case the student must present a GRE score. In the case of foreign students whose first language is other than English, a score of 550 on the TOEFL examination and a score of 5 on the Test of Written English (TWE) are also required. Admission to the program is contingent upon departmental approval.

Degree Requirements

The Master of Science degree consists of 36 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. A maximum of six semester hours of graduate level courses taken as an undergraduate may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program.

This program does not meet requirements for initial teacher certification by the Florida Department of Education.

Prerequisite

Introduction to Linguistics is the prerequisite for the Linguistics courses in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018.

Required Program: (36)

Professional Education: (9)

Foundations of	
Educational Research	3
Social/Philosophical/	
Historical Foundations	
of Education	3
Psychological	
Foundations of	
Education	3
ourses: (18)	
Curriculum	
Development in ESOL	3
Special Methods of	
TESOL	3
Principles of ESOL	
Testing	3
Field Component	
(structured field	
experience)	3
	Educational Research Social/Philosophical/ Historical Foundations of Education Psychological Foundations of Education ourses: (18) Curriculum Development in ESOL Special Methods of TESOL Principles of ESOL Testing Field Component (structured field

Electives: (9)

LIN 5211

LIN 5501

Students will choose nine semester hours according to their needs, with the approval of their advisor. To meet state

Applied Phonetics

English Syntax

3

3

ESOL requirements, certified teachers (K-12) need to include in their electives the following courses:

TSL 5245 Developing ESOL
Language and Literacy 3
EDG 5707 Cross Cultural Studies 3

Graduation Requirements

To receive the Master of Science degree in TESOL, the student must complete the required 36 semester hours of course work with a minimum 'B' or 3.0 grade point average and no more than two 'C' grades in required courses.

Peace Corps Master's International Program (MIP) in Teaching English to Speakers of Other Languages (TESOL)

The Peace Corps' Master's International Program in Teaching English to Speakers of Other Languages is designed to provide specialized training and content knowledge to teachers in foreign secondary- and university-level English programs, English teacher training programs, and volunteer and development activities in general.

Specialty Track #1: Peace Corps Master's International Program in TESOL (36)

Prereauisites

Candidates for the MIP in TESOL must be US citizens and have applied to and been nominated by Peace Corps or be interviewed at FIU by the Peace Corps campus representative.

Introduction to Linguistics (3 credits) is the prerequisite for the linguistics courses in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018 or other similar courses.

Required Program: (36)

Professional Education: (9) EDF 5481 Foundations of

	Educational Research
EDF 6211	Psychological
	Foundations of
	Education
EDF 6608	Social/Philosophical/
	Historical Foundations

of Education

3

3

3

3

3

Program Courses: (24)

TSL 5371	Special Methods of	
	TESOL	
TSL 5938	Principles of ESOL	

TSL 5142 Curriculum
Development in

ESOL 3 TSL 6350 Troublesome English: Grammar for ESOL 3 TSL 6908 Field Component1 (structured field experience) 3 EDG 5707 Cross-Cultural Studies1 3 LIN 6937 Linguistics Seminar 3 LIN 5715 Language Acquisition 3 ¹These two courses will be taught while in Peace Corps service and completed on FIU's campus after students return

Electives: (3)

Students will choose three semester hours according to their needs, with the approval of their advisor.

Graduation Requirements:

from their assignments abroad.

To receive the Peace Corps Master's International in Teaching English to Speakers of Other Languages, the student must complete the required 36 semester hours of course work with a minimum of "B" or 3.0 grade point average with no more than two "C" grades in required courses and serve 27 months of assignments as a Peace Corps volunteer.

Educational Specialist in Curriculum and Instruction Degree Program Hours: (36)

The Educational Specialist Degree (Ed.S.) in Curriculum and Instruction is offered for teachers and other professional educators who are seeking an advanced graduate degree. The introduces program professional educators to the theoretical basis of curriculum and instruction and provides opportunities for students to connect theory with practice. following areas of specialization are offered: Art Education, Early Childhood Education, Elementary Education. English Education. Instructional Leadership, Learning Technologies, Mathematics Education, Modern Language Education, Reading Education, Science Education, and Social Studies Education. The program requires a minimum of 36 semester hours beyond the masters (39 hours for the thesis option). Ed.S. coursework may not necessarily be applicable to the doctoral program.

Admission Requirements

Admission to the specialist program will be based on the following criteria:

- 1. A master's degree in Education from an accredited institution.
- 2. A satisfactory grade point average (at least 3.25) in all prior graduate work and a satisfactory grade point average (at least 3.0) in the last 60 semesterhours of undergraduate work

A combined score of 1000 (verbal and quantitative) on the Graduate Record Examination (GRE). In any case, the GRE score must be submitted.

- 3. Two (2) letters of recommendation to support the application.
- 4. A statement of career goals in professional education consistent with the objectives of an advanced graduate program.
- A personal interview with a committee of program faculty.
- 6. In the case of international students or students whose native language is other than English, a TOEFL score of at least 550 is required.

Curriculum and Instruction Core (12 Hours)

EDG 6250	Curriculum	
	Development	3
EDG 6286	Curriculum Evaluation	
	and Improvement in	
	Urban School Systems	3
EDG 7222	Curriculum: Theory	
	and Research	3
EDG 7362	Instruction: Theory	
	and Research	3

Content Specialization (12 Hours)

Art Education Early Childhood Education Elementary Education English Education Instructional Leadership, Learning Technologies Mathematics Education Modern Language Education/Bilingual Education Reading Education Science Education Social Studies Education

Research (6 hours)

EDF 6485	Research Methods in	
	Education 3	
	(Prerequisite:EDF 5481)	
EDF 6475	Qualitative Foundations	
	of Educational Research 3	
	(Prerequisite:EDF 5481)	

Action Research Option (3 Hours) EDF 5482 Field Research for Educators

3

Student identifies, designs, conducts, and defends a classroom action research project.

Thesis Option (6 Hours)

EDG 6xxx Student identifies, designs, conducts, and defends an original research in an appropriate area of curriculum and instruction. This option is strongly recommended for students who plan to enroll in a doctoral program in the fittire

Transfer of Credit

Students may be allowed to apply up to 6 semester hours of course work taken at the master's level to the specialist program requirements.

Doctor of Education Degree Program

Common Admission Requirements

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

- 1. A completed Application for Graduate Admission with appropriate
- 2. An official copy of the Graduate Record Exam (GRE) scores.
- 3. Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Coordinator of Doctoral Programs in the College of Education.

- 1. Three letters of reference attesting to the applicants ability to succeed in doctoral study.
- 2. A current resume/vitae.
- 3. A statement that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation is reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level

undergraduate work.

2. A 3.25 GPA in all graduate work attempted.

3. A master's degree from an accredited institution.

4. A minimum combined verbal and quantitative score of 1000 on the GRE. 5. Foreign students must demonstrate a TOEFL score of at least 550.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria, but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.

Research and Statistics: (9) Required Courses:

STA 6166 Statistical Methods in Research 3

EDF 6486 Research Methods in

Education: Experimental Design and Analysis¹

Prerequisite: EDF 5481 and STA 6166.

One of the following:

EDF 6403 Quantitative foundations

of Education

EDF 6475 **Qualitative Foundations** of Educational Research

Professional Education Core: (6) Advanced Topics in the EDF 7937 Social Foundations of

Education1 EDP 7057 Educational Psychology: Advanced Applications 3

¹All doctoral students must enroll in EDF 7937 within their first year of admission.

Dissertation: (24)

The student is responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy i.e. successful completion of all written and oral examinations, and favorable recommendations of the supervisory and guidance committee. A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including Summer sem-

Curriculum and Instruction

The doctoral program in Curriculum and Instruction offers specialties in the following areas: Art Education, Early Childhood Education. Elementary Education, English Education. International and Intercultural Development Education, Instructional Leadership, Learning Technologies, Mathematics Education. Language/Bilingual Education, Music Education, Science Education, and Social Studies Education.

Additional Admission Requirements

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

Career goals in professional education consistent with the objectives of a doctoral program.

2. Appropriate prior work experience.

Core Courses: (18)

EDG 7222	Curriculum: Theory and
220 .222	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 7937	Advanced Topics in the
	Social Foundations of
	Education ¹ 3
EDP 7057	Psychological
	Foundations of
	Education 3
¹ All doctoral	students must enroll in
	rithin their first year of

admission.

Research and Statistics (9)

Specialty Area: (36)

The specialty areas include art education, early childhood education, elementary education, English education, instructional leadership, mathematics education, modern language education, music education, reading education, science education, and social studies education.

Cognate Area: (18)

The cognate area requires a minimum of 18 semester hours of course work in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student's program.

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of Graduate Studies.

Dissertation: (24)

The student is responsible for a minimum 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study (including Summer semester) is required. EDG 7980 Ed.D. Dissertation 24

Curriculum and Instruction: Art Education Specialty

Track (36)

Consult Program Coordina or.

Curriculum and Instruction: Early Childhood Education Specialty Track (36)

EEC 6261	Education Programs for	
	Younger Children	3
LAE 5415	Children's Literature	3
LAE 6305	Instruction in Early	
	Childhood	

Language Arts

Col	lege of Education	229
EDF 5812	National Ed.Systen Comparative Analy	
EDF 5852	Ed. Development Is in Context: A Multidisciplinary Approach	ssues
EDF 6636	Intercultural Studie Quantitative and Qualitative	es:
EDF 6654	Macro and Micro Planning In Education	
EDF 6850	IDE: Contemporar	y

Planning Models and Techniques

Dissertation Seminar in

IDE: Innovative Approaches in Educational

3

3

3

3

EDF 7656

EDF 7xxx

Conducte Catalan

Graduate Catalog		
RED 6305	Instruction in Early	
	Childhood Reading	3
SCE 6306	Instruction in Early	
	Childhood Science	3
MAE 6305	Instruction in Early	
	Childhood	
	Mathematics	3
EEC 6xxx	Arts and Technology in	
	Early Childhood	
	Education	3
SSE 6305	Instruction in Early	
	Childhood Social	
	Studies	3
EEC 6678	Research in Early	
	Childhood Education	3
EEC 6932	Seminar in Early	
	Childhood Educartion	3
EEC 6948	Supervised Experience	
	in Early Childhood	
	Education	3
EEC 7932	Doctoral Seminar in	
	Early Childhood	
	Education	3

Cognate Area: (18)

A coherent set of courses related to Early Chidlhood Education. If a student has completed a Master's degree in a cognate field at another insitution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student's major area of study.

Dissertation (24)

An original contribution to knowledge in an area of Early Childhood Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations. favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed. EDG 7980 Ed.D. Dissertation 3-24

Curriculum and Instruction: Elementary Education

Specialty Track (36)

EDE 6205	Curriculum Design for	
	Childhood Education	3
RED 6314	Instruction in	
	Elementary Reading	3
LAE 5415	Children's Literature	3
RED 5339	Subject Related	
	Reading	3

	Elementary Social	
	Studies	3
ARE 6315	Instruction in	
	Elementary Art	3
EDE 5925	Special Topics in	
	Elementary Education	3
EDE 6930	Seminar in Elementary	
	Education	3
EDE 6488	Research in Elementary	
	Education	3
EDE 7935	Doctoral Seminar in	
	Elementary Education	3
Curriculur	n and Instruction	

Instruction in Elementary Mathematics3

Instruction in

Instruction in

Elementary Science

Curriculum and Instruction: **English Education Specialty**

Track (36) Consult Program Coordinator

MAE 6318

SCE 6315

SSE 6355

Curriculum and Instruction: International and Intercultural Development

Education Specialty Track Curriculum and Instruction Doctoral Core (18 credits)

EDG 7222	Curriculum: Theory	
	and Research	3
EDG 7362	Intruction: Theory	
	and Research	3
EDG 7665	Seminar in	
	Curriculum	3
FDF 7934	Seminar in the	

	Social Foundations	
	of Education	3
EDF 7937	Advanced Topics in the	
	Soc. Found. Of	
	Education	3
EDP 7057	Educational Psych-	
	ology: Advanced	
	Applications	3

Those holds	ng a Maste	r's Degree in
International	and Interc	ultural Devel-
opment Ed	ucation or	Comparative
Education: (18 credit hours)		
ADE 7571	Consulting	g in AE/HRD 3

EDF 5851	Social/Cultural Conflict
	In Educational Change
EDF 6651	IDE: Educational Tech-
	nology, Planning,
	Assessment
EDF 6658	Selected Topics in IDE:
	Comment Delier Jesuse

3

3

	Current Folicy Issues	J
EDF 7656	IDE: Innovative	
	Approaches in Education	ona
	Planning	3
EDF 7xxx	Dissertation Seminar in	1
	UDE	3

Those	with alternate	Master's Degree:	
(21 cre	dit hours).	3	

HDE Cognate Area and Guided Electives

Planning

A coherent set of courses related to the doctoral tracks/IIDE (credit hours: between 30-36 cognate and guided electives)

If a student has completed a master's degree in the cognate field at another institution, he or she must take at least two courses in the same cognate field at FIU to complete the requirement. The coherency of the cognate must be evident in the relevance of applicability to the student's major area of study.

Curriculum and Instruction: Instructional Leadership Specialty Track (36)

Specialty	IIACK (SU)	
EDG 6250	General Curriculum	
	Development	3
EDG 6286	Curriculum	
	Evaluation	3
EDG 6920	Colloquim in	
	Curriculum and	
	Instruction	3
EDG 7391	Seminar in	
	Instructional	
	Leadership	3
EDG 7938	Doctoral Seminar	
	In Intsructional	
	Leadership	3
Cognate A	rea: (18 credits)	
	lectives, including	

Cognate A	lea. (10 cieuns)
Approved E	lectives, including
transfer cree	dits (18)
EDF 7934	Seminar in the

EDF 7934	Seminar in the	
	Social Foundations	
	Of Education*	
EDS 6050	Supervision**	
EDS 6115	Personnel	
	Management and	

3

Staff Supervision** EDG 6943 Supervised Field Experience*

*recommended

**one of these two courses is strongly recommended

Cognate Area: (18)

The cognate is a coherent set of courses related to both Instructional Leadership and an area of student interest.

If a student has completed a master's degree in the cognate field at another institution, he or she must take at least two courses in the same cognate field at .FIU to complete the requirement. Students may transfer in as many as 12 semester hours of master's level course work with grades of "B" or better with the approval of their supervisory committee.

Students may design their own cognate with the approval of their advisor and supervisory committee. The coherency of the cognate must be evident in the relevance of applicability to the student's major area of study.

Curriculum and Instruction: Learning Technologies Specialty Track (36)

Outcomes

This track emphasizes research, scholarship, and leadership in the field of learning technologies and how they influence teaching, learning, and professional development of educators. Graduates of the program will, in addition to becoming technologically proficient, also become knowledgeable about the social, cultural, economic, historical, psychological and philosophical issues related to learning technologies.

Research plays a major role in this program. Students who complete the program will complete many research courses. They will also complete a research-based dissertation that contributes to the existing knowledge base. Graduates of the program will be able to make informed research-based decisions related to the implementation of learning technologies.

There is also a practical aspect to the program since many of the courses will be taught in a hands-on manner. Students will have opportunities to apply what they learn as they progress through the program. The goals of the proposed program are to prepare leaders, researchers, and scholars who:

 Understand how various technologies can be used to facilitate learning, teaching, and professional development at all levels of education. Know how computers and related technologies work and understand their strengths, weaknesses, and limitations.

 Understand different learning theories related to the implementation and evaluation of various learning technologies in educational settings.

 Understand current research related to the development, implementation, and evaluation of various learning technologies in educational settings.

 Conduct original and scholarly research in all areas related to learning technologies.

 Develop and field-test technologybased curriculum materials.

 Promote ethical and equitable use of learning technologies, including compliance with copyright laws and respect for intellectual property rights.

 Develop research based policies and plans related to the implementation of learning technologies in education.

Additional admission criteria for those who have completed Master's Degrees in other Fields

Those who do not hold a master's degree in educational technology, information technology, or learning technologies will be eligible for admission into the program after they complete 18 hours of coursework approved by the program advisor or advisory committee, in the areas of computer science, computer science education, educational technology, information technology, or learning technologies, and if they meet all the other requirements for admission into the program.

Completion of the following coursework, or equivalent coursework as determined by the program advisor or advisory committee, will qualify students with master's degrees in other fields for admission into the doctoral program, provided they also meet all other admission requirements:

EME 6405 Computers in the Classrooms

EME 6406 Microcomputers as Teaching Tools

EME 5602 Introduction to Multimedia

EME 6905

EME 6412 Courseware Evaluation and Authoring

EME 5945 Special Topics:

Computers in Education

Directed Study:

Computing in Education

Required Courses

(12 courses, for 36 semester hours from the following list of courses, with prior approval from the advisor. Courses completed without prior approval from the program advisor may be ineligible for inclusion in the doctoral program of study.) For specific course contact advisor.

With prior approval from the advisor, students can complete elective courses, 6000 level or higher courses related to technology in various disciplines, such as arts, language arts, mathematics, reading, science, social studies, etc.

A few possible electives are listed below (Others will be added to this list as soon as they are identified and or developed):

EME 6628 Administrative and Instructional Applications of

Technology
EME 6xxx Learning Technologies
in Science Education

3

3

EME 6407C Instructional Programming for

Teachers
EME 6xxx Learning Technologies
in Social Studies

Education 3
MAE 5655 Computers in

Mathematics Education 3
Please consult the program advisor before enrolling in any elective, and to

identify other appropriate electives.

Cognate Area: (18)

The cognate area requires a minimum of 18 semester hours of course work in a single area of study related to the track. 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.

Dissertation: (24)

An original contribution to knowledge in an area of Technologies. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester

during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed.

EDG 7980 Ed.D. Dissertation 3-2

Curriculum and Instruction: Mathematics Education Specialty Track (36)

Content Area

Goals:

- Depth of study through at least one 7000-level sequence.
- B. Breadth of study through 6000-level sequences.

*Please consult with the major Professor/Supervisory Committee for the details.

Cognate Area: (18)

A coherent set of courses related to Mathematics Education. If a student has completed a Master's degree in a cognate field at another insitution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student's major area of study.

Dissertation: (24)

An original contribution to knowledge in an area of Mathematics Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed. EDG 7980 Ed.D. Dissertation 3-24

Curriculum and Instruction: Modern Languages/ Bilingual Education Specialty Track

Students are required to enroll in the following courses:

Required Courses (18)

FLE 6925 Workshop in Second Language Education EDF 5955 Field Study Abroad or FLE 5945 Modern

Language/B

Language/Bilingual School Experiences 6

3

See advisor for remaining courses.

Advisor approved electives (18) select from: FLE 6336 Methods of Teaching

Modern Languages (7-12) 3
LIN 5825 Pragmatics 3
EDA 6061 Introduction to

Educational Leadership 3
EDA 7069 Educational Policy 3
FLE 5895 Bilingual Education Teaching

Methodologies
EDF 6444 Consultation and
Assessment with
Culturally and

Linguistically Diverse
Populations
TSL 5142 Curriculum
Development in ESL

TSL 5371 Special Methods of TESOL 3
EDA 6195 Communication in

Educational
Leadership
FLE 6938 Seminar in Second

Dissertation: (24)

An original contribution to the field of Modern Languages/Bilingual education.

Language Testing

EDG 7980 Ed.D. Dissertation

Curriculum and Instruction: Reading Education Specialty Track (36)

LAE 5415 Children's Literature 3
LAE 6319 Integrated Language
Arts 3
RED 5448 Teaching Reading by

Computer 3
RED 6314 Elementary Reading 3
RED 5339 Subject Related Reading 3
RED 6546 Reading Diagnosis 3

RED 6546 Reading Diagnosis 3
RED 6515 Reading Remediation 3
RED 6932 Special Topics in
Reading: Classroom
Action Research 3

RED 6747 Research in Reading
RED 6931 Seminar in Reading

Education
RED 7912 Doctoral Directed Study

In Reading
RED 7938 Doctoral Seminar in
Reading Education

Cognate Area: (18)

A coherent set of courses related to Reading Education. If a student has completed a master's degree in a cognate field at another institution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student's major area of study.

Dissertation: (24)

3

3

3

3

3

24

3

3

3

3

An original contribution to knowledge in an area of Reading Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation completed. EDG 7980 Ed.D. Dissertation 3-24

Curriculum and Instruction: Science Education Specialty

Track (36)

 SCE 6635
 Teaching Science in the Secondary School
 3

 SCE 6933
 Seminar in Science Education
 3

 SCE 7165
 Curriculum
 3

SCE 7165 Curriculum
Development in Science
Education 3

SCE 7761 Research in Sience Education 3 SCE 7938 Doctoral Seminar in

Science Education 3
Other Courses in Doctoral major 21

Cognate Area (18)

Cognate Area (coherent set of courses related to the student's major area of study)

Dissertation: (24)

An original contribution to knowledge in an area of Science Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation completed. EDG 7980 Ed.D. Dissertation 3-24

Curriculum and Instruction: Social Studies Education Specialty Track (36)

The goals of this track are to prepare social studies professionals who:

- conduct sound research on critical issues in social studies/global education and disseminate the results of that research in appropriate ways;
- design and employ innovative instructional strategies based on research and best practices:
- design innovative programs at all levels;
- are aware of and contribute to standards-based school reform;
- are predisposed to exhibit professional and ethical standards appropriate to their role as leaders in the field:
- 6. engage in the preparation of effective, ethical, and committed professionals in social studies education

education	1.	
SSE 5905	Directed Study in	
	Social Studies	
	Education	3
SSE 6305	Early Childhood	
	Social Studies	3
SSE 6355	Elementary Social	
	Studies	3
SSE 6394	Social Studies in Other	
	Nations	3
SSE 6633	Teaching Social Studies	
	in the Secondary	
	School	3
SSE 6795	Seminar: Research in	
	Social Studies	
	Education	3
SSE 6939	Seminar in Social Studie	s
	Education	3
SSE 7938	Doctoral Seminar in	
	Social Studies	
		3
History		3
Political Scien	ce/International Relation	s

Anthropology/Sociology Cognate Area (18)

/Geography

Economics

A coherent set of courses related to Social Studies Education. If a student has completed a master's degree in a cognate field at another insitution, he or she may take two or more courses in the same cognate field at FIU to complete the requirement, but the coherency aspect of the cognate must be evident in the relevance of applicability to the student's major area of study.

Dissertation: (24)

An original contribution to knowledge in an area of Social Studies/Global Education. The student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of the supervisory/guidance committee, and an approved dissertation proposal.) Six (6) credit-hours of dissertation are taken per semester during the time that the dissertation is being developed. The remaining credits, if any, are taken during the semester that the dissertation is completed. EDG 7980 Ed.D. Dissertation 3-24

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 introductory reading course, and a 3.0 GPA in the last two years of college work. Students are required to have completed two years of full-time teaching prior to completing the program. Applicants should apply directly to the Director of the Reading Program.

Prerequisite Course

RED 6314	Instruction in Elementary Reading	3
	or	
RED 6305	Instruction in Early Childhood Reading	3

Dequired Program

Acquired 1	i vgi aiii	
EDF 5481	Foundations of	
	Educational Research	3
LAE 5415	Children's Literature	3
RED 6546	Diagnosis of Reading	
	Difficulty	3
RED 6515	Programs of	
	Remediation in Reading	3
RED 5339	Subject Related Reading	g3
Advised Elec	tive ¹	
_		

Two courses chosen from languagerelated courses.

¹Elective courses are chosen from an approved list in consultation with a Reading Program advisor.

Add-on Endorsement in

ESOL

3

3

Individuals who currently hold or are working toward teacher certification in Elementary, English, Foreign Language or Special Education, may receive the Add-on Endorsement in ESOL by completing the following set of courses:

Required Courses

requires	Jourses	
EDG 5707	Cultural and Cross-	
	Cultural Studies	3
TSL 5142	Curriculum	
	Development in	
	ESOL	3
TSL 5245	Developing ESOL	
	Language and	
	Literacy	3
TSL 5371	Special Methods of	
	TESOL	3
TSL 5938	Principles of ESOL	
	Testing	3

Educational Leadership and Policy Studies

Michael Parsons, Chairperson, Associate Professor, Higher Education

Carlos M. Alvarez, Associate Professor

Jeffrey S. Brooks, Assistant Professor, Educational Leadership

John A. Carpenter, Professor, Educational Foundations

Peter J. Cistone, Professor, Educational Leadership

Richard J. Correntl, Senior Lecturer, Higher Education.

Charles Divita, Jr. Professor, Adult Education and Human Resource Develoment

Erskine S. Dottin, Professor, Educational Foundations

Greg A. Dubrow, Assistant Professor, Higher Education

Miguel Angel Escotet, Professor, Educational Foundations

Stephen M. Fain, Professor, Curriculum and Instruction: Instructional Leadership

Robert V. Farrell, Associate Professor, Social Foundations of Education

Jo D. Gallagher, Associate Professor, Adult Education and Human Resource Development

Paul D. Gallagher, Associate Professor, Educational Research, and Executive Vice President, Business and Finance

Della Garcia, Assistant Professor, Urban Education

Frank T. Hammons, Associate Professor, Vocational Industrial Education

Lynn Ion, Associate Professor Dominic A. Mohamed, Professor, Vocational Administration, Supervision and Vocational Industrial Education

Anthony H. Mormore, Assistant Professor, Educational Leadership Tonette S. Rocco, Assistant Professor,

Adult Education and Human Resource Development

Janice R. Sandiford, Associate Professor, Higher Education, Health Occupations Education

Judith J. Slater, Associate Professor, Curriculum and Instruction: Instructional Leadership

Douglas H. Smith, Professor, Adult Education and Human Resource Development Robert Vos, Associate Professor, Learning Technologies

The Department of Educational Leadership and Policy Studies offers the following degree programs:

General Information

Department of Educational Leadership is substantially directed toward masters and doctoral level preparation. The department offers programs and courses for students interested in working in a wide range of organizational, urban, multicultural, and international contexts of education and training. Academic preparation focuses on educational leadership, management, planning, design. evaluation, policy development and analysis, and instruction. In addition, provides department undergraduate and graduate curricula in historical, comparative, cultural, social, and philosophical foundations of education. The department's academic inventory consists of fifteen master's degrees and/or master's tracks, six doctoral degrees and/or tracks, an educational specialist degree, and professional certification programs. Approximately 22 faculty members, all with terminal degrees and substantial and diverse academic and practical experience, offer students a rich opportunity for study and research in many of today's most interesting and challenging areas of education.

The following pages describe the various graduate offerings of the department. It should be noted that stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

List of Programs Masters Degrees

Adult Education
Educational Leadership
Health Occupations Education
Home Economics Education
Family and Consumer Sciences
(teacher certification)
Family and Consumer Sciences
(non-school based)
Higher Education
Community College Leadership
Student Affairs Administration
Human Resource Development

International Development Education Technology Education/Industrial Arts Urban Education Vocational Administration and Supervision Vocational Industrial Education

¹Track within Vocational Industrial Education ²Trocks within Educational Leadership

Educational Specialist Degree

Educational Specialist Degree Educational Leadership

Doctor of Education Degrees
Adult Education and Human
Resource Development
Educational Administration and

Educational Administration and Supervision Higher Education Higher

Education: Administration Higher Education: Instruction International and Intercultural Development Education Vocational and Technical Education Leadership

¹Track within Adult Education and Human Resource Development and within Higher Education

Certificate and add-on Certification Programs Graduate Professional Certific

Graduate Professional Certificate Health Occupations Education

Graduate Certificate Program
Professional Certificate in Health
Occupations Education

Occupations Education
Conflict Resolution and
Consensus Building

Masters of Science Program in Administration and Supervision of Vocational Education

To be certified in Administration and Supervision in Vocational Education in Florida, a person must have at least three years of successful teaching experience in one of the vocational education areas. While one year of successful teaching will meet the experience requirement for admission to the master's degree program initially, the three-year teaching experience requirement must have been completed either before or at the same time as degree requirements are completed. Each graduate student, in consultation with the advisor, plans a program of study to include a core of professional competence, an area of emphasis, and electives.

234 Colle	ge of Education	
Degree hou		
EDF 5481	Foundations of	
	Educational Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations	3
EVT 5168	Curriculum	-
2.10100	Development in	
	Vocational Education	3
EVT 5265	Supervision and	,
2112203	Coordination of	
	Vocational Education	
	Programs	3
EVT 5664	Community Relations	,
D 1 1 3004	and Resources for	
	Vocational Education	3
EVT 6264	Administration of Local	,
E V 1 0204	Vocational Education	
	Programs	3
EVT 6930	Seminar in Vocational	3
E V I 0930	Education	3
EDA 6061	Introduction to	3
EDA 0001		2
RED 6336	Educational Leadership	
KED 0330	Reading in the Conten	
	Area	3

Area of Professional Emphasis EVT 6946 Supervised Field Experience

Advisor approved electives: (3-6)
The candidate may select a course (or courses) that will increase administrative and supervisory competencies.
Students who have met the reading requirement as undergraduates or through approved in-service education may substitute an elective for this course.

Health Occupations Education (Track)

Degree ho	ours: (33)	
EDF 5481	Foundations of	
	Education Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations of	
	Education	3
EVT 5168	Curriculum	
	Development in	
	Vocational Education	3
EVT 5769	Evaluation in	
	Vocational Education	3
EVT 6930	Seminar in Vocational	
	Education	3

Area of Professional Emphasis: (9)

Improvement

Teaching Strategies in

EVT 5315

	Health Occupations and	
	Nursing Education 3	
EVT 5317	Occupational Analysis	
	in Health Occupations	
	and Nursing Education 3	
EVT 6318	Current Issues in Health	
	Occupations and	
	Nursing Education 3	
	Nuising Education 3	
Advisor ap	proved technical	
electives: (6)	
The candidate is encouraged to select		
courses that will increase subject area		
	mpetencies, career goals,	
	certification requirements	
such as: cor	urses in Nursing, Health	
Sciences, He	ealth Services, or Public	
Health.		
RED 6336	Reading in the Content	
KLD 0550	Area 3	
E) (E (405		
EME 6405	Computers in the	
	Classroom 3	

Master of Science Programs in Adult Education and Human Resource Development

The Graduate Programs in Adult Education and Human Resource Development (AE/HRD) are designed for the individual who chooses to serve AE/HRD director/manager. instructional designer, teacher. instructor, trainer, counselor, and/or researcher. Graduates are working in AE/HRD programs in business and industry, public schools, hospitals, governmental agencies, community colleges. universities. civic associations, military service, and other agencies. Graduate programs of study are designed with regard to an individual's specific interests, needs. and career goals.

Two master's degree programs are offered: Adult Education and Human Resource Development.

Adult Education

The program in Adult Education is designed for persons interested in working in public school or higher education adult and continuing education. It consists of a minimum of 36 hours, with 21 hours (seven courses) required, and a minimum of 15 hours (five courses) of electives.

Required Program: (36 hours minimum)

Required Core: (21-24):
ADE 5081 Introduction to Adult
Education and Human

Resource Development 3

ADE 5385	Adult Teaching and	
	Learning	3
ADE 6180	Organizational/	
	Community Processes i	n
	AE/HRD	3
ADE 6186	Comprehensive Program	n
	Evaluation in AE/HRD	3
ADE 6260	Management of	
	AE/HRD Programs	3
ADE 6945	Internship in	
	AE/HRD 3	-6
EDF 5481	Foundations of	
	Education Research	3
Advised Ele	ectives (15 hours	

minimum) Human Resource Development

(HRD)
The program in Human Resource Development is designed for persons interested in working in business and industry, government, health, and other similar organizations. The program consists of a minimum of 36 hours, with 24 hours (8 courses) required, and a minimum of 12 hours (four courses) of electives.

Required Program: (36 hours minimum)

Required Core: (24) (Courses are listed in required sequence)

ADE 5081 Introduction to Adult Education and Human

ADE 5385 Adult Teaching and Learning 3
ADE 6180 Organizational and Community Processes in AE/HRD 3
ADE 5383 Instructional Analysis and Design 3

Resource Development 3

and Design 3
ADE 6286 Instructional
Development and
Implementation 3
ADE 6260 Management of

AE/HRD Programs 3
ADE 6945 Internship in AE/
HRD 3
EDF 5481 Foundations of

Education Research

3

Advised Electives (12 hours minimum)

Master of Science in Educational Leadership

The Master of Science (M.S.) degree program in Educational Leadership comprises courses and experiences designed to develop entry level competencies in the practice of educational leadership. The program incorporates coursework that constitutes the "modified Florida

program in educational leadership" at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for state certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

- 1. A bachelor's degree and a grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester hours of undergraduate work:
- 2. A minimum combined score of 800 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
- 3. At least three years of successful full-time teaching experience and regular Florida teaching certificate.

Program of Study

The program of study comprises a minimum of 39 semester hours.

EDA 6061	Introduction to	
	Educational Leadership	3
EDA 6192	Leadership in Education	13
EDA 6195	Communication in	
	Educational Leadership	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6271	Microcomputer	
	Application for	
	Administrators	3
EDA 6930	Seminar in Educational	
	Leadership	3
EDF 5481	Foundations of	
	Educational Research	3
EDS 6115	School Personnel	
	Administration	3
EDF 6608	Social, Philosophical	
	and Historical	
	Foundations of	
	Education	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
Advisor approved electives 6		

Six semester hours of approved electives must be earned in one of the following areas: Early Childhood, Middle School, Secondary School, or Exceptional Student Education. The selection of courses to meet this requirement requires the approval of a faculty advisor.

Master of Science Degree in Higher Education: Community College

The Master of Science (M.S.) degree in Educational Leadership: Community College Leadership is designed to prepare generalist practitioners for positions in community college leadership. The program develops entry level competencies in the practice of community college and may be tailored to other interests through the choice of electives and practicums.

Theme: As a "majority" minority institution, FIU is the prototype for universities of the 21st century. Given this advantage, an overall theme for the program is diversity. Students in the program will have the opportunity to work and study in one of the most diverse higher education environments in the nation.

Admission Requirements:

Admission to the program is based on the following criteria:

- 1. GPA of 3.0 in last 60 semester hours of upper division undergraduate study or A minimum score of 1000 (total of verbal quantitative on the Graduate Records Examination (GRE). (GRE is required for master's degree programs at FlU).
- experience Work in community colleges or student affairs areas preferred.

Program of Study:

Professional Studies (9 semester hours) Semester Credit Hours FDF 6211 Psychological

	Foundations of	
	Education	3
EDF 5481	Foundations of	
	Educational	
	Research	3
EDF 6608	Social,	
	Philosophical and	
	Historical	
	Foundations of	

Required Higher Education Core: (12

Education

3

semester hours) EDH 6xxx

The American College Student EDH 6045 College Student Development

EDA 7236 The Law and Higher Education 3

Theory

EDH 6xxx College Student Access and Choice 3 Community College Leadership

Concentration (9 - 12 hours) Current Topics in EDH 6xxx the Community College 3 EDH 6051C Leadership in Higher Education 3 EDA 6943 Supervised Feld Research 1-6 Approved Electives (9 - 12 semester

hours) Select with Advisor MHS 5400 Counseling Skills

and Techniques MHS 6428 Cross Cultural Counseling National Education EDF 5812 Systems: A Comparative Analysis 3

International EDF 6850 Development Education: Contemporary Planning Models and Techniques 3 (Others)

39

Total Semester Hours

Master of Science Degree in Higher Education: Student Affairs

The Master of Science (M.S.) degree in Educational Leadership: Student Affairs Administration is designed to prepare generalist practitioners for positions in higher education student affairs. The program develops entry level competencies in the practice of student affairs and may be tailored to other interests through the choice of electives and practicums.

Theme: As a majority minority institution, FIU is the prototype for universities of the 21st century. Given this advantage, an overall theme for the program is diversity. Students in the program will have the opportunity to work and study in one of the most diverse higher education environments in the nation.

Admission Requirements

GPA of 3.0 in last 60 semester hours of upper division undergraduate study

A minimum score of 1000 of verbal (total and quantitative on the Graduate Records Examination (GRE).

236	Colleg	e of Education	
		E is required for master's	
	•		
• \		ee programs at FIU).	
2.)	Wor		
		munity colleges or	
	stud		
		erred.	
Progr	ram of	Studies	
Profes	sional S	tudies (9 semester hours)	
		lit Hours	
EDF 6		Psychological	
DD1 0		Foundations of	
			3
EDF 5	491	Foundations of	
EDI. 3	401		3
EDE (,
EDF 6	8008	Social, Philosophical	
		and Historical	
		Foundations of	_
		Education	3
Requi	red High	ner Education Core: (12	
	ter hour		
EDH (The American College	
LDII	JAAA		3
EDH (6045	College Student	,
EDIT	0043		3
ED.	7226		3
EDA '	/230	The Law and Higher	
	_		3
EDH (6xxx	College Student Access	_
		and Choice	3
Stude	nt Affair	rs Administration	
Conce	entration	(9 - 12 hours)	
EDH	бххх	Introduction to Student	
		Affairs Administration	3
EDH	hvvv	Organization and	
LDII	UAAA	Administration of	
		Student Affairs	3
ED.	6042		,
EDA	0943	Supervised Field	1 - 6
		Research	1 - 0
Appro	oved Ele	ectives (9 - 12 semester	
hours) Select	with Advisor	
MHS	5400	Counseling Skills and	
		Techniques	3
MHS	6428	Cross Cultural	
		Counseling	3
EDF:	5812	National Education	
		Systems: A comparative	
		Analysis	3
EDF	6850	International	-
EDF	0830	Development Education	
			•
		Contemporary Planning	
		Models and	2
		Techniques	3
		(Others)	20

Total semester hours

Master of Science Programs in Home Economics
Education (Family and Consumer Sciences
Education)

leadership of Family and Consumer

39

Non-School Based Track
This track focuses on educational

Scientists presently employed in nonschool educational environments and those preparing for such positions.

This program does not lead to State of Florida teacher certification. Admission to this track does not require teacher certification.

Degree hours: (30)

Degre	t noui	3. (50)	
HEE 5	335	Trends and Issues in	
		Home Economics	
		Education	3
HEE 6	156	Teaching Home	
		Economics in Diverse	
		Environments	3
ADE 6	180	Organizational and	
		Community Processes	in
		AE/HRD	3
EDF 5	481	Foundations of	
		Educational Research	3
HEE 6	915	Research in Home	
		Economics Education	3
HEE 6	937	Seminar in Home	
		Economics Education	3

Area of Professional Emphasis (9)
With program advisor's approval,
students may select courses in Home
Economics or related subject matter
based on professional competencies
and needs.

Advisor approved elective (3)
The candidate in consultation with the advisor will make selections on the basis of individual needs and career goals.

Technology Education

Degree hours: (33)

EDF 5481	Foundations of	
	Educational Research	3
EDF 6211	Psychological	
	Foundations of	
	Education	3
EDF 6608	Social, Philosophical,	
	and Historical	
	Foundations	3
EVT 5650	Trends and Issues in	
	Vocational Education	3
EVT 5168	Curriculum	
	Development in	
	Vocational Education	3
EVT 5769	Evaluation in	
	Vocational Education	3
EVT 6930	Seminar in Vocational	
	Education	3

Area of Professional Emphasis (9) ElA 5811 Equipment and Facility

Planning 3
EIA 6683 Instructional Projects
Development 3
EIA 6931 Analysis of Technology

Education

Advisor approved elective
EIA 5925 Special Topics 3

RED 6336 Reading in the Content Area¹

Students are encouraged to select courses that will increase subject area technical competence.

Students who have met the reading requirement as undergraduates or through approved in-service education, may substitute an elective for this course.

Master of Science in International Development Education

The Master of Science degree in International Development Education (IIDE) is designed to provide graduate training to students interested in acquiring skills as specialists in educational development within the context of a changing society. The program places special emphasis on planning, management, research, and evaluation skills. Such skills are developed in relation to a specific area of educational specialization and with a special emphasis on understanding the influence of the social context of education on educational development and change.

Admission Requirements

To be admitted into the master's degree program in International Development Education (IDE), a student must have (a) a bachelor's degree from an accredited U.S. institution or its equivalent for international students, (b) a 3.0 GPA or highe. for the last 60 hours of upper-division coursework, (c) three letters of recommendation, and (d) a autobiographical statement.

Degree Requirements

The Master's program requires the completion of a minimum of 36 semester hours of course work at the graduate level with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 36 semester hours are to be completed in accordance with the program curriculum.

Language Requirement

The student must demonstrate competency in the use of a modem language, other than English, prior to graduation. International students may demonstrate competency in their native language. Language courses will not

count for credit toward program completion.

Required Program (36 minimum)

The IIDE program blends together theoretical foundations methodological perspectives. Graduate students are exposed to the role of the social, political, economic, scientific and cultural sectors in educational development. Research and analytical skills are provided to insure student's ability to define, gather, analyze and evaluate data for project management and decision-making. Planning and applied courses are designed to provide the professional competencies for project development and evaluation, training programs and understanding current and future-oriented policy issues and problems in education.

Foundations of Education (6)

Foundations of Education (6)		
EDF 6608	Social, Philosophical	
	and Historical	
	Foundations of	
	Education	3
EDF 6211	Psychological	
	Foundations of	
	Education	3

Social Context of Education and Development (6)

EDF 5812 National Education
Systems: A Comparative
Analysis 3

EDF 5852 Educational Development Issues in Context: A Multidisciplinary

Perspective
Educational Research and
Evaluation Methods (3)

3

EDF 5481 Foundations of Educational Research

Educational Policy, Planning, Implementation/Management and Evaluation Skills (9)

EDF 6636 Intercultural Studies: A
Qualitative and
Quantitative Analysis

EDF 6654 Macro- and Micro-Planning in Education 3 EDF 6850 International

Development
Education:
Contemporary Planning
Models and Techniques 3

Electives: (6)

The student will select, with advisor's permission, a minimum of six semester hours from the following courses:

EDF 6651 IDE: Educational

Technology, Planning and Assessment 3

Cross-Cultural Studies EDG 5707 in Education 3 EDF 6906 Directed Study in IDE 3 EDF 6850 Intercultural Ed.: National and International Perspectives 3 EDF 5851 Socio/Cultural Conflict in Educational Change 3 EDF 5955 Field Study Abroad 3-6 EDF 6658 Selected Topics: International Development Education. Current Policy Issues and Problems 3

Thesis Option (3-9 credit hours)

The final curricular requirement is a thesis which facilitates the integration of theoretical and practical knowledge acquired throughout the program. The thesis topic is selected and developed in consultation with a faculty advisor and an ad-hoc thesis committee. The thesis demonstrates the student's ability to apply analytical, conceptual and technical skills to a specific educational development problem of domestic, regional or international significance.

Non-Thesis Option (by petition only)

A student shall complete 36 credit hours of course-work, approved by her or his supervisory committee. The candidate is required to write a comprehensive/interdisciplinary paper to test the student's general ability in integrating the disciplinary sources of International Intercultural Development Education. The topic for the paper is given near the end of the candidate's final semester by a committee composed of three faculty members appointed by the IIDE Graduate Program/Department. The student has one week to accomplish the task. If the committee considers the paper insufficient, the student may rewrite the paper only once until one semester has elapsed or until additional work prescribed by the committee is completed.

Dual Specialties

Students have the opportunity to gain basic expertise in other fields such as:
1) economics, sociology, anthropology, international relations, business administration, etc. 2) adult education, administration and supervision, community college and higher education, curriculum and instruction; 3) comparative education, 4) intercultural communication and systems consultation; 5) the social context of education

and development; or 6) any other field of interest approved by the faculty advisor. The student shall complete 24 hours in IDE and he/she will select, with advisor's permission, a minimum of 12 semester hours from courses available in one of the following areas:

A content area of educational specialization

Comparative/Intercultural Education System's Consultation and Human Resources

Social, Cultural, Technological, Scientific, Econmic and/or Political Context of Development

Courses in any other area of special interest to the student.

Master of Science in Urban Education

The Master of Science in Urban Education is a program designed to provide specialized knowledge and areas related practice in to urban/multicultural contexts. It aims at enhancing the effectiveness of teachers serving in diverse urban settings. The program represents a collaboration among the Miami-Dade County Public schools, the United Teachers of Dade (UTD) and the College of Education. It places special emphasis on developing the skills of teachers as researchers by engaging in action research projects at individual school sites. The Master's program requires the completion of 36 semester hours of course work at the graduate level with a minimum 3.0 GPA. A maximum of six graduate hours may be transferred from another institution, upon approval from an advisor.

Admission Requirements

To be admitted into the Master's degree in Urban Education, a student must have: (a) a 3.0 GPA for the last 60 hours of upper-division coursework, and (b) an interview with faculty, (c) an autobiographical statement, (d) a letter of intent, and (e) three letters of recommendation (academic and professional sources).

Program of Studies Professional Studies Core (9)

Professional Studies Core (9)
EDF 6211 Psychological
Foundations of
Education

EDF 6608 Social and
Philosophical, and
Historical Foundations

3

3

Historical Foundations
of Education
EDF 6636 Intercultural Studies

or

250 <u>COM</u>			D 1 1 7001			
EDF 6689	Urban Education: Defining the Field 3	TSL 5245	Developing ESOL Language and Literacy	3		Sciences Program
_		TSL 5371	Special Methods of	,	in Vocati	onal Home
	nd Development	1020071	TESOL	3	Economi	cs Education
Project Co		TSL 5938	Principles of ESOL		(Family a	and Consumer
EDF 5481	Foundations of		Testing	3	` "	Education)
EDE (026	Educational Research 3	Specialty T	rack #3: Learning			,
EDF 6925	Special Topics in Urban Education: Qualitative	Technologi	_		School B	ased
	Research in Urban	_			Degree hou	ırs: (33)
	Education 3		is intended for educato		EDF 5481	Foundations of
	or		to learn the necessa skills and dispositions			Educational Research
EDF 6475	Qualitative Foundations		se computers and relate		EDF 6211	Psychological
	of Educational Research 3		to facilitate teaching ar			Foundations of
EDE 5941	Practicum: Urban		iverse settings.		EDE ((00	Education
	Elementary/Secondary	EME 6405	Computers in the		EDF 6608	Social, Philosophical, and Historical
	Schools (Action	DIVID 0403	Classroom	3		Foundations
	Research Project) 3	EME 6408	Microcomputers as		HEE 5335	Trends and Issues in
Specialty T			Teaching Tools	3		Home Economics
	ral/TESOL (18)	EME 6412	Educational Coursewar	re		Education
	ty track develops the skills		Evaluation and		EVT 5168	Curriculum
	to work with linguistically	E) (E 6605	Development	3		Development in
and cultura	ally diverse populations iding an opportunity to	EME 5602	Multimedia in the Classroom	3		Vocational Education
	requirement for add-on	EME 5945	Special Topics in	3	HEE 6156	Teaching Home
ESOL endor		EME 3943	Computer Education	1-3		Economics in Diverse Environments
TSL 5142	Curriculum	EME 6905	Directed Study:		HEE 6915	Research in Home
	Development in TESOL 3		Computer Education	3	TIEL OF IS	Economics Education
TSL 5245	Developing ESOL	Note: Six h	ours of electives may	be	HEE 6937	Seminar in Home
	Language and Literacy 3	completed it	lieu of the courses EM	1E		Economics Education
TSL 5371	Special Methods of		EME 6905 with pri	or	Area of I	Professional Emphasis
mar	TESOL 3	approval from	m the academic advisor.		(9)	Totessional Emphasis
TSL 5938	Principles of ESOL Testing 3	Specialty T	rack #4: Urban			ram advisor's approva
EDE 5942	Testing 3 Multicultural Seminar	Education	(15)			y select courses in Hom
EDE 3342	and Practicum in Urban	EDE 5267	Education of the Child			or Family and Consume
	Education 3		in Urban Society	3		ubject matter based or
EDG 5707	Cultural/Cross-cultural	EDF 5851	Socio/Cultural Conflic			competencies needed. Th
	Studies in Education 3		in Education	3		n consultation with th
Specialty T	Frack #2: Instruction	EDF 6689	Urban Education:	3		l make selections on th
	Settings (18)	G	Defining the Field	3		dividual needs and caree
	mphasizes the development		ectives in Urban		goals.	•
	e teaching skills and	Education	• •		Master o	of Sciences Progran
	required for the effective		of electives may be tak	en	in Vocat	ional Industrial
instruction	of culturally diverse	• •	al of academic advisor.		Educatio	m
	rban schools.	Specialty T				_
EDG 5325	Analysis of Teaching		ral/Billngual			urs: (33-36)
EDP 6215	Application of Learning Theory to Instruction 3	Education			EDF 5481	Foundations of
EME 5602	Theory to Instruction 3 Multimedia in the	FLE 4151	Bilingual School		EDF 6211	Educational Research Psychological
EIVIE 3002	Classroom 3		Curriculum and	2	EDF 0211	Foundations of
	or	FLE 4871	Organization Teaching Spanish to	3		Education
Intendical		FLE #0/I	Speakers of Spanish	3	EDF 6608	Social, Philosophical,
(select thre	olinary Electives:	EDE 5942	Multicultural Seminar	-		and Historical
EDG 5707	Cultural/Cross-cultural		and Practicum in Urba			Foundations
EDG 3707	Studies in Education 3		Education	3	EVT 5650	Trends and Issues in
EDF 6444	Consultation and	Six hours o	f electives may be taken	in		Vocational Education
	Assessment with		ses above with approval		EVT 5168	Curriculum
	Culturally and	academic ad				Development in Vocational Education
	Linguistically Diverse				EVT 5769	Evaluation in
	Populations 3				EV13/09	Vocational and
TSL 5142	Curriculum					Technical Education
	Development in TESOL 3					

EVT 6930 Seminar in Vocational Education 3
EVT 5695 International Comparative Vocational Education 3

Area of Professional Emphasis: (6)

A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences, seminars, methods courses, workshops, or independent study.

Advisor approved technical electives: (3-6)

The candidate will be encouraged to select courses that increase subject area technical competence.

Educational Specialist in Educational Leadership

The Educational Specialist (Ed.S.) degree program in Educational Leadership is intended to provide professional educators with an opportunity to develop competencies in areas of special needs and interests in the field of Educational Adminstration/Leadership. Consequently, there are few required courses and each student's program is individually planned in consultation with a faculty advisor. The program may be used to satisfy part of the requirements of the Florida Department of Education for state certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

- A bachelor's degree and a grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester hours of undergraduate work:
- A master's degree and a grade point average of at least 3.25 in all graduate work attempted;
- A minimum combined score of 800 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
- At list three years of successful full-time teaching experience and a regular Florida teaching certificate;

Program of Study

The program of study comprises a minimum of 39 semester hours and is planned in consultation with and approved by a faculty advisor. The structure of the program is as follows: EDA 6061 Introduction to

		Educational	
		Leadership	3
EDF	6608	Social, Philosophical	
		and Historical Founda-	
		tions of Education	3
EDF	6211	Psychological	
		Foundation of Educa-	
		tion	3
Guid	ed electi	ves in Educational	
Admi	inistratio	n/Leadership	24
Guided electives in Research/Statistics/			
Meas	urement	and Evaluation	6

Doctor of Education Programs

Common Minimum Admission Requirements

The College of Education has common admission requirements for its doctoral programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

- A completed Application for Graduate Admission with appropriate fees.
- An official copy of the Graduate Record Exam (GRE) scores.
- Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Advanced Graduate Studies in the College of Education.

- 1. Three letters of reference attesting to the applicant's ability to succeed in doctoral study.
 - 2. A current resume/vitae.
- A statement that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing

The application and all supporting documentation are reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

- 1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work;
- A 3.25 GPA in all graduate work attempted;
- A master's degree from an accredited institution;
- A minimum combined verbal and quantitative score of 1000 on the GRE;

Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file the applicant will be interviewed by program departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or program faculty.

Professional Education Core

EDF 7937 Advanced Topics in the Social Foundations of Education Educational Psychology: Advanced Applications 3

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

Research and Statistics Core (9 hours minimum)

A research requirement of nine semester hours, taken in the order listed, is common to all College of Education doctoral programs.

STA 6166 Statistical Methods in Research I

EDF 6486 Research Methods in
Education: Experimental
Design and Analysis¹

¹Prerequisite: EDF 5481 and STA 6166.

And one of the following: EDF 6403 Ouantitative

Foundations of Educational Research 3

3

EDF 6475 Qualitative Foundations
of Educational Research 3

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass both written and oral candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of the Graduate School.

Program Core (24-36 hours minimum)

Advised Electives

Dissertation (24 hours minimum)

The student is responsible for a minimim of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge. The doctoral dissertation is the final component of the series of academic experiences that culminate in the awarding of the Ed.D. degree. A successful dissertation demonstration of the candidate's ability to use the tools and methods of basic and/or applied research in the field, to organize the findings, and to report them in a literate, logical, and compelling fashion.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, and favorable recommendations of the supervisory and guidance committee). A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation study is required (including summer semesters).

Adult Education and **Human Resource** Development (AE/HRD)

Three options are available within the doctoral program in Adult Education and Human Resource Development (AE/HRD): (I) the major (code 0177) in AE/HRD, (2) a specialized track (code 0186) in Vocational-Technical Education Leadership (workforce development), and (3) a track (code 0256) specializing in International and Intercultural Development Education. option prepares advanced professionals to facilitate individual. organizational, and career development and advancement of adults in the nation and the world.

Graduates are equipped to design and facilitate programs for adult clients, employees, volunteers, students, and associates of profit and not-profit organizations. These professionals may be engaged in program development and evaluation, planning, policy development and analysis, leadership, instruction and training, counseling and consultation. advisement. marketing and recruitment activities designed to further the growth and development of adult learners. They may also be engaged in improving organizational functioning through educationally-related intervention strategies or working with other performance improvement consultants.

Participants in the AE/HRD doctoral program and its affiliated tracks come from diverse backgrounds: business and industry; higher education; public and proprietary schools; health and services agencies; enforcement and corrections; the and nonmilitary, government, governmental agencies; religious organizations; libraries and museums; and civic and professional associations.

The Doctor of Education degree is conferred on the basis of high scholarship and skill in the creation and application of knowledge from theory and research findings to practical problems in adult education and/or human resource development. Applications for admission to the doctoral program are invited from individuals who are highly motivated and intellectually capable of meeting the challenges of a rigorous doctoral degree program.

Additional Admission Requirements

In addition to the College of Education's common minimum admission requirements. applicants must possess following the qualifications:

- 1. Evidence of commitment to a career in the broad field of adult education. human resource development, International and Intercultural Development Education and/or Vocational-Technical Education.
- 2. Successful professional experience in one or more of the above fields.
- 3. Potential for leadership or research in the above fields.

Candidates for admission to the programs will be judged not only on the basis of quantitative criteria (e.g., GRE scores and GPA, as listed elsewhere in this catalog) but also in terms of prior experience and future career goals.

Adult Education and Human Resource Development (code 0177)

Program of Study

Doctoral programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a

minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs of study are planned by the participants, their major professor, and their program of studies supervisory committee.

Adult Education and Human Resource Development Program Core (18 - 24 hours)

The adult education and HRD core includes courses in areas such as comprehensive adult education and HRD planning, program development, instructional design, adult teaching and learning, trends and issues, strategies, and research.

Research and Statistics (9 hours minimum)

Although some courses are required for all doctoral participants, others are selected with the guidance of the participant's program of studies supervisory committee.

Electives (3 - 9 semester hours minimum)

Electives vary according to the participants' background and professional goals and are selected with the guidance of the participant's program of studies supervisory committee.

Prospectus and Dissertation (24 semester hours minimum)

Participants are responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of adult education. human resource development, and/or vocationaltechnical education (workforce development). Participants expected to complete the dissertation within nine years from their date of admission to the AE/HRD doctoral program. A minimum of six credit hours of dissertation are to be undertaken each term the dissertation is being prepared. Continuous enrollment in dissertation study is required, including summer terms.

International and Intercultural Development Education Track (code 0256)

Program Description

The Doctor of Education (Ed.D.) degree program in Adult Education and Human Resource Development with a

specialization in International and Intercultural Development Education (IIDE) is designed (a) to serve the advanced professional development needs of individuals concerned with the improvement of education development, planning, research. training, evaluation and other types of developmental programs, distance learning and innovative practices which focus on adult learners and (b) to provide technical assistance. consultation, and other professional services to organizations which conduct, sponsor and/or promote adult education and human resource development programs in the context of intercultural and international areas and/or projects.

Program of Study

Doctoral programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Programs of study are planned by the participants, their major professor in IIDE, and their program of studies supervisory committee.

Adult Education and Human Resource Development Program Core (15 hours)

The adult education and human resource development core includes courses in areas such as comprehensive adult education and HRD planning, program development, instructional design, adult teaching and learning, trends and issues, strategies, and research.

International and Intercultural Development Education Program Core (18-24 hours)

Courses include areas such as educational systems, comparative methodology, educational development issues, intercultural/cross-cultural education, conflict theory and resolution, planning in education, educational technology transfer, knowledge and development, education organizational behavior, international organizations and NGO's, and social, psychological and political contexts of international development education.

Research and Statistics (9 hours minimum)

Although some courses are required for all doctoral participants, others are selected with the guidance of the participant's program of studies supervisory committee.

Electives (3 - 9 hours minimum)

Electives vary according to the participants' background and professional goals and are selected with the guidance of the participant's program of studies supervisory committee

Prospectus and Dissertation (24 hours minimum)

Participants are responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of international and intercultural development education in relation to adult education and/or human resource development. Participants are expected to complete the dissertation within nine years from their date of admission to the doctoral program. A minimum of six credit hours of dissertation are to be undertaken each term the dissertation is being prepared. Continuous enrollment in dissertation study is required, including summer terms.

Vocational and Technical Education Leadership Track

Program Description

The Vocational and Technical Education Leadership ' (VTEL) specialization (code: 0186) is designed to promote the preparation of highly competent professional leaders in vocational and technical education (workforce development and training) required in local, state, regional, national, and international settings. This program is a separate track within the Adult Education and Human Development Resource doctoral program, and it enables workforce training and development professionals to effectively fulfill roles in fields related to the following examples:

- Program design/development
- Administration/supervision of workforce development and training organizations
- Counseling/advisement
 - Materials/media development
- Planning and budgeting
- Marketing program/recruiting
- Staff/organization development
- Research/evaluation
- Consultation/technical assistance

This diverse group shares a common academic objective, namely, to become proficient in educationally related strategies to facilitate systematic, deliberate, and purposeful growth and development in individuals, programs, organizations, and/or communities. Settings in which graduates operate include K-12, adult post-secondary, and higher education; business; technology education; health education: occupations education/family and economics technical consumer sciences: vocational industrial education: education; marketing and distributive education; agribusiness and natural resources education; public service; work experience programs; diversified cooperative training; on-the-job training; military; and organization training. Other settings in which graduates operate include for-profit and not-for-profit community organizations, governmental and nongovernmental organizations, and administration and supervision of vocational-technical education (workforce development and training). The VTEL specialization focuses on the following as examples:

 Youths and adults, rather than children, as learners.

 A wide spectrum of educational and workforce development and training agencies, rather than schools, exclusively.

 Employment learning needs, rather than age- or gradespecific learning needs.

- Education as a means of individual employment, advancement, and economic well-being, rather than as generic preparation and acculturation.
- Diversified forms of instructional delivery, rather than on classroom delivery, exclusively.

Additional Specific Admission Requirements for VTEL Doctoral Track

In addition to the admission requirements stated earlier for the AE/HRD program, VTEL applicants must also possess:

 Career goals in professional education and workforce development and training consistent with the objectives of a doctoral program.

24

 Appropriate prior work experience in adult education, human resource development, and vocational-technical education: workforce development and training.

Program of Study

Doctoral programs of study vary according to the individual needs of the participants and their current or anticipated professional goals. A typical program will require a minimum of 101 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below. The list should be considered as a sample program rather than an absolute delineation of exact requirements. Actual programs of study are planned by the participants, their major professor, and program of studies supervisory committee.

Adult Education and Human Resource Development Program Core (12 semester hours)

Adult education and HRD core includes such courses as comprehensive adult education and HRD planning, program development, instructional design, adult teaching and learning, trends and issues, strategies, and research.

Vocational and Technical Education Leadership Track Core (21 - 28 semester hours)

May include courses in curriculum and instruction and/or administration and supervision of vocational-technical education—workforce development and training

Professional Education Core (6 semester hours)

This core explores topics in advanced educational psychology as it relates to youth and adults and the social, philosophical, and historical foundations of education.

Generic Care (30 - 36 semester hours)
This core may include up to 36 semester hours of graduate credit from an approved master's degree program and other program-related transfer credits.

Research and Statistics (9 semester hours minimum)

Although some courses are required for all doctoral participants, others are selected with the guidance of the participant's program of studies supervisory committee.

Prospectus and Dissertation (24 semester hours minimum)

Participants are responsible for a minimum of 24 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of adult education. human resource development and/or vocationaltechnical education (workforce development). Participants are expected to complete the dissertation within nine years from the date of admission to the Vocational-Technical Education Leadership Track doctoral program. A minimum of six credit hours of dissertation are to be undertaken each term the dissertation is being prepared. Continuous enrollment in dissertation study is required, including summer terms.

Educational Administration and Supervision Doctoral Program

The doctoral program in Educational Administration and Supervision is designed for students who wish to pursue leadership roles in educational institutions. The program of studies prepares students for careers as school superintendents, principals, directors and supervisors; administrators in state, federal, and international agencies; professors of Educational Administration; and administrators in institutions of higher education.

The curriculum is designed to enable students to become familiar with and utilize effectively both theoretical and technical knowledge. The program of study is multidisciplinary and integrates broad intellectual perspectives into the study and practice of Educational Administration.

Additional Admission Requirements

In addition to the common admission requirements for doctoral programs in the College of Education, an applicant must:

- 1. Provide evidence of at least three years of successful and appropriate professional experience.
- Engage in an interview with a committee of program faculty.
- 3. Receive a positive endorsement of the program faculty.

Program of Study

The program requires the completion of a minimum of 99 semester hours of academic work beyond the baccalaureate degree. Program requirements include the following:

Educational Administration and Supervision 33 Minor/Cognate Area 15 Professional Education Core 6 Research and Statistics Core 12

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

Doctoral Dissertation (EDA 7980)

A candidate for the doctorate in Educational Administration and Supervision is required to prepare and present for faculty approval a doctoral dissertation that demonstrates a capacity for independent thought and for the application of the tools and methods of research to educational issues and problems.

Higher Education

The doctoral program in Higher Education is practitioner oriented designed to provide the opportunity for specially selected individuals to enhance instructional, administration, and research skills for leadership roles related to the continuing development and operation of higher education institutions. The program is offered in a format to make it attractive and available to place bound professionals in Southeast Florida. The program is designed to stimulate research related to highe, education, particularly in the development innovative of administrative and instructional approaches appropriate for urban settings. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals.

Post-baccalaureate course work minimum requirements for the degree, while subject to individual variations, consist of the following:

Higher Education Core: (21) EDH 7065 Higher Education:

Philosophical and
Historical Perspectives 3
EDH 7204 Higher Education:
Community College 3

EDG 7222 Curriculum Theory and Research

Additional courses in Education that will enhance the student's instructional and/or administrative abilities and skills.

In addition to one of the above specialties the following are required:

Professional Education Core (6)

Cognate Area: (18)

The cognate area may be taken in one or more subject areas and may include graduate or undergraduate (postbaccalaureate) courses. The design of the cognate for Higher Education Instruction should assist the student in developing into a well-rounded teacher, one who is able to adapt to changing conditions of instruction. The design of the cognate for Higher Education Administration should assist the student in developing essential administrative leadership skills.

Research and Statistics Core: (9)

The research and statistics requirement is designed to assist the student in expanding the capacity to use research related to instruction.

Dissertation: (24)

The dissertation should be on a topic of importance to higher education and should reflect the student's professional interests and goals.

The student is expected to complete the dissertation within five years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of six credit hours of dissertation are to be undertaken each semester the dissertation is being prepared. Continuous enrollment in dissertation is required (including summer semester).

Educational Leadership Certificate Program

The Certificate Program in Educational Leadership is designed for students who have a master's degree in a subject or field of Education other than Educational Administration/Leadership. The coursework constitutes the "modified Florida program in educational leadership" at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for certification in Educational Leadership.

Admission Requirements

Admission to the program requires: 1. A completed application form

submitted to the Program Leader in Educational Leadership;

- A master's degree:
- 3. A regular Florida teaching certificate:
- 4. A grade point average of at least 3.0 (on a 4.0 scale) in master's degree work;
- 5. A minimum combined score of 800 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
- 6. At least three years of successful teaching experience.

Program of Study

The program of study comprises a minimum of 24 semester hours.

EDA 6192	Leadership in Education	3
EDA 6195	Communication in	
	Educational Leadership	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6271C	Microcomputer	
	Applications for	
	Administrators	3
EDA 6503	The Principalship	3
EDS 6115	School Personnel	
	Administration	3
Advisor-appro	oved elective in	

3

Conflict Resolution and Consensus Building Professional Certificate

Curriculum and Instruction

Program

Margaret Wilson, Certificate Director. (Labor Studies) Coordinating Committee Dawn Addy, (Labor Studies) Carlos Alvarez, (Educational Foundations/Prof. Studies) Fred Becker, (Public

Administration)

David Bray, (Environmental Studies) John Carpenter, (Educational Foundations)

Michele Ciccazzo, (Dietetics & Nutrition)

Ronald Cox, (Political Science) Marvin Dunn, (Psychology)

Damian Fernandez, (International Relations)

Guillermo Grenier, (Sociology/Anthropology)

Constantine Hadjilambrinos, (Environmental Studies)

Thomas Humphries, (Labor Studies) Nathan Katz, (Religious Studies)

Paul Kowert, (International Relations)

Karl Magnusen, (Management) Michelle Marks, (Psychology) Virginia McCoy, (Public Health)

Diann Newman, (Hospitality Management)

Bruce Nissen, (Labor Studies) Terry Rey, (Religious Studies) Rehecca Salokar, (Political Science) Adele Smith, (Hospitality Management) Mary Tanke, (Hospitality Management)

The Conflict Resolution Certificate Consensus Building Program offers students at the postbaccalaureate level the opportunity to obtain an interdisciplinary concentration in the study of conflict resolution and to obtain an intellectual background in the theories and methodologies of conflict resolution and consensus building.

In modern society, the ability of various sectors to understand one another's perspectives, to learn methods to reduce potential conflicts, and to develop mechanisms to work toward building consensus is extremely critical. The issues that may be explored in this area of study are multidisciplinary and lend themselves to a broad-ranging interdisciplinary certificate which will allow students both to gain an understanding of the major concepts and issues in the field and also concentrate in a more specific area of study such as the workplace, the community, or the international arena.

The certificate enhances interdisciplinary connections among Labor Studies, Management, International Relations, Latin American Studies, Sociology, Anthropology, Political Science, Education, Hospitality, Public Administration, Public Health, Dietetics and Nutrition, Environmental Studies, Religious Studies, and Psychology and complements studies in other fields, including the newly approved Law School.

Prescribed Courses and Other Requirements

The certificate program requires 18 credit hours (6 courses) of study at the graduate level from the following certificate program course listing, or others approved by the certificate program advisor. Three tracks of study are offered. For each track there are two required core courses and four additional electives. The courses should be understood to be a partial list; students should consult with the Director of the certificate program about current course offerings. Students are required to take courses from a minimum of two departments.

244	College of Education	Graduate Catalog
-----	----------------------	------------------

	ses: All Tracks	Public Admi	inistration Government and	PHC 6355	Occupational Health and Safety
(6 hours)		PAD 5043	Minority Group	PHC 6356	Fundamentals of
LBS 5485	Fundamentals of		Relations	1110 0550	Industrial Hygiene
	Conflict Resolution 3	PAD 5427	Collective Bargaining in	PHC 6315	Public Health and
LBS 5931	Topics in the	FAD 3421	the Public Sector	1110 0515	Environmental
	Philosophy and	PAD 6028	Policy Analysis and		Management
	Methods of Conflict	FAD 0028	Planning	Religious St	
	Research 3	URS 6130	Human Resource Policy	REL 5149	Religion, Violence and
	or	UKS 0130	and Management	ICLD 3143	Conflict
	or methods course from	URS 6436	Professionalism and	Sociology/A	
	iplines to be chosen from	UK3 0430	Ethics	ANT 5318	American Culture and
	iplines in consultation with	Public Healt		71117 3310	Society
advisor.		PHC 6589	Health Promotion in	ANT 6302	Gender Identity in
Track I:	Workplace Conflict	FHC 0309	Institutional Settings	71111 0302	Comparative
Resolution ((12 hours)	Dietetics and			Perspective
Labor Stu	dies	HUN 6259	Management of	ANT 6319	The African Diaspora
LBS 5406	Collective Bargaining	HUN 0239	Nutrition Services	SYD 6236	International Migration
LB3 3400	and Labor Relations			B1D 0230	and Refugees
LBS 5464	Labor Arbitration	Track II:		SYD 6325	Seminar in Comparative
LBS 5465	Introduction to	Resolution (12 hours)	310 0323	Sociology of Gender
LD3 3403	Mediation	Education		SYD 6616	Comparative
LBS 5155	Workplace Diversity	EDF 5851	Social/Cultural Conflict	512 0010	Stratification Seminar
LBS 5507	Labor and Employment	EDF 5880	Intercultural Education:	SYD 6625	South Florida Socio-
LBS 3307	Law		National and	315 0023	Cultural Systems
LBS 5930	Topics in Labor Studies		International	SYD 6705	Comparative Systems of
	•		Perspectives	310 0703	Ethnicity and Race
Managemer MAN 6066	Business Ethics	EDF 6608	Social, Philosophical	SYO 6135	Families and Social
MAN 6121	Interpersonal Behavior		and Historical	310 0133	Change
MAIN 0121	and Analysis		Foundations of	SYP 6907	Seminar in Comparative
MAN 6209	Organizational Design		Education	311 0907	Social Change
MAIN 0209	and Behavior	EDF 6636	Intercultural Studies: A		
MAN 6295	Conflict in		Qualitative and		Global Issues and Conflict
WAIN 0293	Organizations		Quantitative Analysis	Resolution (12 hours)
MAN 6405	Labor Relations	EDG 5707	Cultural and Cross-	Education	
MAN 6411	Collective Bargaining		Cultural Studies	EDF 5880	Intercultural Education:
WIAIN 0411	Topics	Environmen	ital Studies		National and
Education	Topics	EVR 5355	Environmental Resource		International
EDA 6225	Labor Relations in		Policy		Perspectives
EDA 0223	Education	Labor Studi		EDF 5881	Social/Cultural Conflict
EDA 6232	School Law	LBS 5930	Topics in Labor Studies	EDF 6636	Intercultural Studies: A
EDA 7233	Education Law and	LBS 5465	Introduction to		Qualitative and
DD11 /233	Ethics		Mediation		Quantitative Analysis
EDA 7236	Law and Higher	LBS 5466	Family Mediation	EDF 6658	Selected Topics in
22117230	Education	LBS 5467	Civil Mediation		International
EDF 5851	Social/Cultural Conflict	Political Sci			Development Education
EDF 6636	Intercultural Studies: A	POS 5045	Seminar in American	EDG 5707	Cultural and Cross-
	Qualitative and		Politics		Cultural Studies
	Quantitative Analysis	POS 5146	Seminar in Urban	Environmer	
EDS 6050	Supervision and Staff		Politics	EVR 5350	International
220	Development	POS 5326	Seminar in Class		Organizations and
Hospitality			Analysis		Environmental Politics
HFT 5545	Leadership Training for	POS 5932	Topics in Urban Politics	Internation	
	Team Building	Psychology		INR 5xxx	International
HFT 6225	Multicultural Human	CYP 5534	Groups as Agents of		Negotiations and
	Resources Management		Change		Conflict Resolution
	in Hospitality	CYP 6766	The Psychology of	INR 5086	Islam and International
HFT 6226	Motivation and		Cross-cultural	D. ID. 6005	Relations
	Leadership		Sensitization in a Multi-	INR 5087	Ethnicity and Politics of
HFT 6246	Organizational Behavior	00D (755	cultural Context	DID 5400	Development
	in the Hospitality	SOP 6752	Psychology of Juries	INR 5409	International Relations
	Industry	Public Heal		DID 6607	Law l
		PHC 6311	Environmental Health	INR 5507	International
			and Risk Management		Organizations I

Graduate Ca	talog
INR 6089	International Relations and Human Rights
Labor Studie	
LBS 5465	Introduction to
	Mediation
LBS 5658	Labor Movements and
	Economic Development
Political Scie	
INR 5105	American Foreign
	Policy
INR 5087	Ethnicity and the
D.D. 5005	Politics of Development
INR 5007	Seminar in International
DID (000	Politics
INR 6080	Seminar on Non-State
INR 6705	Actors
INK 0/05	Seminar in International Political Economy
Managamant	•
Management MAN 6601	International
WAIN OOO!	Management
MAN 6615	International Labor-
WAN OUTS	Management Relations
MAN 6xxx	Colloquium In
IVII EI CAAA	Managing
	Organizational Ethics
Psychology	0.9
CYP 5534	Groups as Agents of
	Change
CYP 6766	The Psychology of
	Cross-Cultural
	Sensitization in a Multi-
	Cultural Context
Public Healtl	
PHC 6115	International Public
	Health
Dietetics and	
HUN 5195	International Nutrition:
	Problems, Policies and
	Management
Religious Stu	
REL 5149	Religion, Violence and Conflict
Sociology/An	
ANT 6302	Gender Identity in
AIVI 0302	Comparative
	Perspective
ANT 6319	The African Diaspora
SYD 5447	Sociology of
	International
	Development
SYD 6236	International Migration
	and Refugees
SYD 6325	Seminar in Comparative
	Sociology of Gender
SYD 6616	Comparative
	Stratification Seminar
SYD 6705	Comparative Systems of
21 PP 4004	Ethnicity and Race
SYP 6907	Seminar in Comparative

Course Descriptions

Definition of Prefixes

LBS-Labor Studies

Social Change

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

LBS 5155 Workplace Diversity (3). Students examine theoretical debates surrounding workforce participation of women and minorities; historical position of these groups in labor force; social phenomena that contributes to discriminatory practices and development of policies to eliminate discriminatory practices.

LBS 5406 Collective Bargaining and Labor Relations (3). A comprehensive study of major issues and themes in American collective bargaining. Includes origins of collective bargaining, labor law, unionization, contract negotiation, patterns in contract content, impact of external laws, public sector unions, grievance arbitration and interest arbitration. Prerequisite: Permission of Instructor.

LBS 5464 Labor Arbitration (3). Study of labor dispute resolution with emphasis on grievances, fact-finding, and arbitration.

LBS 5465 Introduction to Mediation (3). Examines the role of mediation in resolving civil, commercial, family, public, and workplace disputes. Incorporates mediation principles and different approaches skills, mediation, and current research in mediation. Prerequisite: Permission of Instructor.

LBS 5466 Family Mediation (3). Provides a comprehensive understanding of conflict resolution, Power and balances, emotional and psychological issues, negotiation techniques as well as the development of practical skills in the field of family mediation. Prerequisite: Permission of Instructor.

LBS 5467 Clvil Mediation (3). A comprehensive understanding of the field of civil mediation as well as the development of the practical skills to be a civil mediator. Prerequisite: Permission of Instructor.

LBS 5485 Fundamentals of Conflict Resolution (3). Survey of the major contemporary theories of organizational functioning and the management of conflict within and among organizations in a globalized world. Theories that center primarily within the fields of dispute resolution, sociology, and social interaction/group theory will be emphasized. Prerequisite: Permission of Instructor.

LBS 5507 Labor and Employment Law (3). Familiarizes the student with the legal issues and rules regarding unionization of employees, the collective bargaining process, the relationship between the employee and his/her union, and the administration of collective bargaining agreements. Examines the legal framework within which collective bargaining occurs and also familiarizes students with additional issues of rights in employment. Prerequisite: Permission of Instructor.

LBS 5658 Labor Movements and Economic Development (3). Relationships between union economic development strategies in developing/recently developed countries; emphasis on social movement unionism and unions in Latin America and Asia. Prerequisite: Permission of Instructor.

LBS 5930 Topics in Labor Studies (1-3). Selected topics or themes in Labor Themes will vary from Studies. semester to semester. With a change in content, course may be repeated. May include field work. Prerequisite: Graduate standing.

LBS 5931 Topics in the Philosophy and Methods of Conflict Resolution (3). Provides an examination of the philosophy, methods, and research in the field of conflict resolution. The particular content and orientation of the course may vary according to the particular focus examined. Prerequisite: Permission of Instructor.

Educational and Psychological Studies

Adriana McEachern, Chairperson and Associate Professor, Counselor Education,

Patricia Barbetta, Associate Professor, Special Education David Bicard, Assistant Professor, Special Education

Linda P. Blanton, Dean and Professor, Special Education Leonard Bliss,

Professor, Educational Research

Wendy Cheyney, Professor, Learning Disabilities Judith Cohen, Special Education

Judith Cohen, Special Education Field Placement Coordinator Elizabeth Cramer, Assistant

Professor, Special Education

Patricia del Valle, Assistant Professor,
School Psychology

Marisal Gavilan, Associate Professor, Educational Psychology, Bilingual Education

Barry Greenberg,
Professor, Educational Research
Maureen Kenny, Associate Professor,
Counselor Education

Philip J. Lazarus, Associate
Professor, School Psychology,
Counselor Education

Luretha F. Lucky, Associate Professor, Mental Retardation Bryan Moseley, Assistant Professor,

Educational Psychology

Martha Pelaez, Associate Professor, Educational Psychology, Behavior Analysis

Howard Rosenberg, Associate Professor, Mental Retardation Mark Shermis Professor, Educational Research Methodology, Associate Dean Research and Grants

Abbas Tashakkori, Professor, Educational Research Jethro W. Toomer, Professor, Counselor Education

The Department of Educational and Psychological Studies offers a variety of programs to prepare counselors to work in school and community mental health settings, psychologists to work in the schools, and teachers of students who have emotional disturbance, learning disabilities, and mental retardation. All programs require substantial supervised field-work. State of Florida certification requirements are met or are prerequisites for all programs preparing school personnel. Departmental and program information

can be found at our website: http://www.fiu.edu/~cdpsy.

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

Master of Science

Counselor Education
Mental Health Counseling Track
Rehabilitation Counseling Track
Counseling
Special Education
Varying Exceptionalities/ESOL
Track

Educational Specialist
School Psychology
Doctor of Education
Exceptional Student Education

Master of Science Degree Programs

Educational and Psychological Studies

Programs within the Educational Psychology are designed to train professionals to meet the unique needs of individuals who experience cognitive, academic, and/or social-emotional difficulties interfere with the individual's progress in school and in the community. Specific competencies are delineated for professionals in the fields special education. school counseling. counselor education, and school psychology. This department also prvides courses in educational psychology and educational research.

These programs emphasize the blending of research and theory with practical applied experience. They consider the urban and multicultural nature of the community, as well as more general trends within specific fields. All programs involve extensive field work with accompanying seminars. Independent study courses are available to allow students to pursue specialized interests and needs.

Applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, as well as all official transcripts to the Office of Admissions at the University. Three letters of recommendation (at least one from academic sources and one from work or experience). volunteer autobiographical statement and a curriculum vitae (resume) need to be submitted the Department's Graduate Admissions Committee.

Candidates are admitted by action of the Department's Graduate Admissions Committee. Minimum criteria for acceptance program include appropriate GRE scores, undergraduate grade point average during junior and senior years, work and volunteer experience, quality and source of letters of recommendation. and candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 'B' or higher during the undergraduate junior and senior years (i.e. last 60 semester hours), or both, are required for a candidate to be admitted via regular procedures. An interview is required for admissions into the School Psychology program, the Mental Health Counseling, School Counseling, and Rehabilitation Counseling programs.

Regardless of the GPA, GRE scores must be submitted. Students with GRE scores less than 800 may be required to retake the exam. Students may transfer nine semester hours earned at another institution into the program provided the course work taken does not exceed a three year time period. Transferring in more than 6 hours requires special permission from your advisor and the Dean of the Graduate School. Students are allowed a maximum of six years from the date of initial enrollment to complete program requirements. Periods of noncontinuous enrollment do not count against the six year period provided a "Request for Program Interruption" is approved by the Graduate Admissions Committee.

Given the unique nature of the fields of counseling and school psychology requiring mastery of cognitive skills and demonstration of relevant and appropriate interpersonal skills, the faculty retains the right to "counsel out" of the program and/or not recommend for internship placement any student whose level of interpersonal competence is considered incompatible with that required for effective functioning as a practitioner in counseling or school psychology.

All stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements. Applications are reviewed upon their completion. Allow

6-8 weeks for application to be processed by the Admissions Office.

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.

Once admitted, each student is responsible for tracking academic progress throughout the program, and a degree can be revoked if academic dishonesty or fraudulence is discovered.

Counselor Education Program/Tracks

The counselor education, school counseling track consists of 58 semester hours and prepares students to be school counselors. In addition, there are two other tracks to the Counselor Education Program: Community Mental Health (61 semester hours) and Rehabilitation (60 semester hours). The program and its various tracks leads to a 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, and client appraisal. The latter part of the program is more differentiated, and enables a specialization in either community mental health, school counseling or rehabilitation counseling. All areas of specialization meet the standards recommended by American Counseling Association, the American Rehabilitation Counseling Association and specialization in school counseling qualifies the graduate for the Florida School Guidance Certification. Community Mental Health Counseling curriculum meets the master's degree requirement for eligibility towards licensure as a mental health counselor by the State of Florida, Department of Professional Regulation.

The prospective student should be advised that a substantial amount of time is spent in field work to meet practicum and internship requirements. Completion of the practicum and internship requirement involves field placement on a full-time basis for the last two semesters in the program. The student should plan for this field work to be during the day, rather than during evening hours. Program completion is

not	compatible	with	full	time
empl	oyment.			

All students entering the School Counseling program with an undergraduate degree in an area other than education must enroll for courses in general professional education as required by the Florida State Department of Education in order to meet state certification requirements in Florida. In addition, all students must have passed the CLAST. After July 1, 2002, the CLAST exam may be waived if the student has a score of 1000 and higher on the GRE.

Students applying to the Community Mental Health Counseling program with an out-of-field undergraduate major must complete 9 hours of prerequisite course work.

Students enrolling in courses under Special Student status, must meet all existing prerequisites prior to course enrollment and obtain permission of the instructor. Due to the importance of continuity in skill development for counselor training, required prerequisites must be met within a two year period prior to enrollment. Additionally, instructor permission may be required.

Counselor Education: School Counseling Degree: (58 credits)

Professional	Studies:	(9)
I I Ulessiunai	Studies.	()

Counseling Core: (22)

EDF 6608	Social, Philosophical,	
	Historical Foundations	
	of Education	3
EDF 6211	Educational Psychology	3
EDF 5481	Foundations of	
	Educational Research	3

MHS 5400	Counseling Skills and
	Techniques
MHS 6802	Personality Theories
MHS 6200	Measurement and
	Appraisal in Counseling

MHS 6	428	Cross Cultural	
		Counseling	3
MHS 5	350	Educational-	
		Vocational Counseling	3
MHS 6	511	Group Counseling	3
MHS 6	511L	Group Development	
		Lab	1

MHS 6700	Ethical, Legal, &
	Professional Issues in
	Counseling

Specialization: (15)

SDS 6700	Organization and	
	Administration of	
	School Counseling	

SDS 6411	Counseling Children	
	and Adolescents	3
SDS 5460	Crisis Counseling and	
	Interventions	3
SPS 6199	Family, School	
	Consultation and	
	Collaboration	3
EEX 6051	Education of Students	
	with Exceptionalities	3
Clinical Ex	periences: (12)	
SDS 6800	Advanced Practicum in	
	Counseling and	
	Consultation	3
SDS 6820	Supervised Field	
	Experience in Counselor	
	Education	9

Corequisites: Students who do not hold a Florida Teacher's Certificate must complete 6 credits of courses covering general methods of teaching requirements prior to graduation.

New Graduation Requirements: Students entering this program on or

after Fall 2001 must:

➤ Have overall GPA of 3.0

 Successfully demonstrate of all Florida Educator Accomplished Practices

Have a passing score on all sections of the new Florida Teacher Certification Exam. Students who hold a Florida certificate received prior to July 1, 2002, are required to pass only the subject area exam. For students who do not hold a valid Florida certificate, you are required to pass all sections of the test:

- Professional Exam
- Subject Area Exam

- General Knowledge

Field Requirements

3

3

3

3

Application for professional experiences must have faculty advisor approval and must be submitted to the office of the director of student teaching by March 1 for fall semester placements and July 1 for spring placements.

Community Mental Health Counseling Track (61 credits)

All students will follow the course of study outlined below. This progam meets the new standards of the Department of Business and Professional Regulation in the State of Florida.

Counseling Core: (25)

EDP 6506 Human Development: Across the Lifespan 3

3

3

3

3

3

3

3

Counseling and Education

Family-School Consultation and Collaboration

Education of Students with Exceptionalities

Counseling Children and Adolescents

Organization and Administration of School Counseling

Measurement and Appraisal in Counseling 3

Group Counseling

Ethical, Legal, and

Cross Cultural Counseling

Professional Issues in Counseling

Advanced Practicum in Counseling and Consultation (Prerequisite: All the courses listed above) Note: At the discretion of the program coordinator, a minimum of six semester hours of transfer credit may be used to satisfy these requirements.

Educational-Vocational Counseling

EEX 6051

SPS 6199

SDS 6411

SDS 6700

MHS 6200

MHS 5350

MHS 6511

MHS 6700

MHS 6428

SDS 6800

248 College	of Education	
MHS 5400	Counseling Skills and	
	Techniques	3
MHS 6802	Personality Theories	3
MHS 5350	Educational Vocational	3
MIUS 2220		
14140 (100	Counseling	3
MHS 6428	Cross Cultural	
	Counseling	3
SDS 5460	Crisis Counseling and	_
	Interventions	3
SDS 6411	Counseling Children	
	and Adolescents	3
MHS 6511	Group Counseling	3
MHS 6511L	Group Development	
	Lab	1
Measureme	nt and Research: (6)	
EDF 5481	Foundations of	
LDI 3401	Educational Research	3
MHS 6200	Measurement and	3
WII 13 0200	Appraisal in Counseling	2
0	• • • • • • • • • • • • • • • • • • • •	3
Specializati		
MHS 6700	Ethical, Legal, and	
	Professional Issues	
	in Counseling	3
MHS 6740	Foundations of Mental	
	Health Counseling	3
MHS 6411	Advanced Counseling	
	and Consultation:	
	Theory and Practice	3
MHS 6427	Adult	
	Psychopathology	3
MHS 6470	Human Sexuality	-
141115 0470	Counseling	3
MHS 6450	Substance Abuse	,
MINS 0430	Counseling	3
		3
	periences: (12)	
MHS 6800	Advanced Practicum in	
	Counseling and	
	Consultation	3
MHS 6820	Supervised Field	
	Experience	
	Counseling	9
Note: This no	rogram of study is subjec	t

Note: This program of study is subject to change at anytime.

Rehabilitation Counseling: (60)

Counseling	Core: (30)	
EDP 6506	Human Development	
	Across the Lifespan	3
MHS 5400	Counseling Skills and	
	Techniques	3
MHS 5350	Educational-	
	Vocational Counseling	3
MHS 6802	Personality Theories	3
MHS 6411	Advanced	
	Counseling and	
	Consultation in	
	Community Settings	3
MHS 6700	Ethical, Legal, &	
	Professional Issues in	
	Counseling	3
MHS 6428	Cross Cultural	
	Counseling	3

MHS 6511	Group Counseling	3
MHS 6427	Adult	
	Psychopathology	3
MHS 6470	Human Sexuality	
	Counseling	3
Specializati	on: (12)	
RCS 6031	Rehabilitation	
	Counseling: Principles	
	and Practices	3
RCS 6625	Service Delivery and	
	Case management in	
	Rehabilitation	3
EEX 6203	Psychological	
	Sociological Aspects of	,
	Disability	3
EEX 6208	Medical Aspects of	
22.1 02.0	Disability	3
Measureme	ent and Research: (6)	•
EDF 5481	Foundations of	
LDI J401	Educational Research	3
MHS 6200	Measurement and	_
WIII3 0200	Appraisal in Counseling	, 2
Cliniaal Em	• •	5 5
MHS 6800	periences: (12) Advanced Practicum ir	
MH2 0800	Rehabilitation	1
		•
	Counseling	3
MHS 6820	Supervised Field	
	Experience in	
	Counseling	
	Rehabilitation	_
	Counseling	9

Program for School Guidance and Counseling Certification

To provide a systematic curricula as a means of obtaining the Florida Guidance Counselor (PK-12) Certificate for those who already possess a master's degree in Education or Counseling and do not wish to pursue a second master's degree.

Admission Requirements

Application for admission is to be made to the Department of Educational Psychology Graduate Admissions Committee. The criteria for admissions includes: possession of a master's degree in education, counseling or other approved area, transcripts of all college credits, autobiographical form, and three letters of recommendation.

Required Program: (36) EDF 6211 Psychological Foundations of Education 3 or

MHS 6802 Personality Theories 3 MHS 5400 Counseling Skills and Techniques 3 MHS 6410 Behavioral and Cognitive Modification

Techniques in

Science in

Special Education

The Department offers one masters degree and a track and a doctoral program in Special Education.

Applications for advanced practica placement (SDS 6800) must have

faculty advisor approval and be

submitted to the office of the Director

of Student Teaching by July 1 for

Spring semester placement, and by

March 1 for Fall semester placement.

The Master of Science Program in Special Education is for students already certified in an area of Exceptional Student Education. It consists of a common core of 27 credits in advanced areas of special education, plus a choice of 9 credits in an area of Some areas concentration. concentration may lead to additional endorsement or certification. Special areas of concentration may be planned with the advisor. This program has a total of 36 credits.

The track to the special education degree is an Alternate Masters of Varving Exceptionalities/ESOL which is 64 credits. This track is for students holding a baccalaureate degree in an area other than education. This track

has all of the necessary coursework and fieldwork to earn an initial certification in special education varying exceptionalities with an ESOL (English Speakers of Other Languages) endorsement. It provides the student with entry level skills for teaching students with mild disabilities and the appropriate course work to be certifiable in varying exceptionalities. In addition, ESOL competencies are taught in infused courses as well as stand alone courses.

The Doctoral Program Exceptional Student Education prepares students for administrative, supervisory, research, and or university faculty positions in Special Education.

Master of Science Degree in **Special Education**

The major competencies in the Master's Degree program in Special Education are an extension and refinement of those developed by the student in the undergraduate special education curriculum, and include: a) assessment of learning through observation and on-going monitoring techniques; b) application of behavioral approaches to the building, monitoring and modification of classroom behavior: c) communication of information concerning children to others within the school and to parents, d) curriculum planning and innovation including staffings and IEP development; e) supervision and leadership of special education classrooms; and f) consultation skills.

Program applicants are required to submit an application to the Office of Admissions. All applicants must present GRE scores for the Verbal and Quantitative sections, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include GRE scores. undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters recommendation, and the candidate's career aspirations and goals. A combined Verbal-Quantitative GRE score of 1000 or GPA of 3.0 or higher, during the undergraduate junior and senior years is required for a candidate to be admitted via regular procedures.

Regardless of the GPA, the applicant must submit a GRE score. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements.

Professional Certificate programs are available in a number of specialized areas. Consult the program faculty for further information.

In-Field Majors

The following master's program of study is for the student who holds an undergraduate degree in Special Education from Florida International University. A student with an undergraduate major in Special Education from another institution must plan a program with an academic advisor to ensure having the entry skills for this program.

Degree Program Hours: (36) Required Core For All Students: (27)

		`
EDF 6608	Social, Philosophical, and Historical Foundations of	
		3
EDF 6211	Educational Psychology:	-
EDI 0211	Foundations and	
		3
EDE 5401		3
EDF 5481	Foundations of	
		3
EEX 6848	Seminar in Special	
	Education: Issues and	
	Trends	3
EEX 6535	Seminar in Special	
	Education:Supervision	
	and Leadership	3
EEX 6912	Advanced Theory and	
	Research in Special	
	Education	3
SPS 6199	Family/School	
	Consultation and	
		3
EEX 6765	Instructional	•
LLX 0703	Technology	3
EEX 6228	Integration of	,
LLA 0220	Assessment, Curriculum	
	and Instruction ¹	3
	and msiruction	,

Area of concentration

Area of concentration may be selected from an endorsement such as ESOL, or as planned and approved by student and advisor.

Alternate Masters of Science Track: Varying Exceptionalities/ ESOL (64 credits)

Admission requirements to the Masters of Science in Varying Exceptionalities track include those required for the Special Education Master's Program. In addition, all students must pass all sections of the CLAST Exam. After July 1, 2002, this test may be waived if the student has a GRE score of at least 1000

Students holding a baccalaureate degree outside of education may prepare for entry level into the field of special education by completing the Alternate Master's Track, which includes the following course work. The track below is for students accepted Fall 2002 or later. Students accepted sonner have different requirements. Please see a special education advisor for information.

Educational Psychology:

Principles and

Professional Studies

EDP 5053

		I morphoo and	
		Applications	3
	EDF 5517	Philosophical and	
7)		Historical Foundations	
,		of Education	3
	EDG 5414	Instructional Strategies	
		for the Classroom	
		Teacher	3
	TSL 5372C	ESOL Issues: Principles	
		and Practices I	3
	TSL 5373C	ESOL Issues: Principles	
		and Practices II	3
	EEX 5766	Instructional and	
		Assistive Technology in	
		Special Education	3
	EEX 6051	Education of Students	
		with Exceptionalities	3
	EEX 6106	Acquisition of Speech	
		and Language Skills	3
	EEX 6227	Educational Assessment	
		of Students with	
		Exceptionalities	3
	EEX 6608	Behavioral Approaches	
		to Classroom Learning	
		and Management	3
	EEX 6771	Personal Foundations	
		and Transitional	
		Services for Individuals	
		with Disabilities	3
	EEX 5xxx	Literacy in Special	
		Education	3
	RED 4150	Teaching Primary	
		Literacy	3
	RED 4311	Teaching of	
		Intermediate Literacy	3
		or	
	RED 5xxx	Subject Related Reading	23
	MAE 4310	Teaching Elementary	,-
		Math	3
	EEX 6060	Nature and Needs of	
		Students with Mild	
		Disabilities	3
	EMR 5215	Strategies for Teaching	_
	2	Students with Mental	

	Retardation ^{1,2}	3
EED 5225	Strategies for Teaching	
	Students wit Emotional	
	Handicaps ^{1,2}	3
ELD 5235	Strategies for Teaching	
	Students with Learning	
	Disabilities ^{1,2}	3
EEX 6862	Student Teaching	6
	or	
EEX 6863	Supervised Field	
	Experience	6

New Graduation Requirements

GPA of at least 3.0

Successful demonstration of the Florida Educator Accomplished Practices

Passing all three sections of the Florida Teacher Certification Exam.

Note: If you pass the CLAST prior to July 1, 2002, you do not need to take the new General Knowledge test. Extensive field work required. ²Graduate block, spring semester only.

Educational Specialist in School Psychology

The program in School Psychology requires a minimum of 80 semester hours and leads to State of Florida certification as a specialist in School Psychology as well as educational requirements for private practice licensure. This program leads to the Educational Specialist Degree. More complete program descriptions may be obtained in the departmental office or call (305) 348-2552.

The competencies to be demonstrated by the student completing this program are derived from the following: behavioral/educational assessment and planning; counseling and homeschool consultation and collaboration with teacher, parents, and school staff; classroom intervention; interventions; liaison referral, program development and evaluation; inservice education; and community outreach.

Admission Requirements

For admission into our program, students will be required to:

- submit all transcripts,
- submit a curriculum vitae,
- write an autobiographical sketch that responds to two questions,
- describe their work experience with children. adolescents, and families,
- submit a minimum of three letters of recommendation,

- pass the CLAST or earn a 1000 on the GRE,
- submit a writing sample if deemed necessary, and
- participate in an interview for our program with both faculty and students that focuses on the five components of emotional intelligence that are deemed necessary for success as a school psychologist.

In order to be accepted into the program a student must have a 3.2 average in their last 60 semester hours of undergraduate study. In addition applicants must have a minimum of 15 hours of credits semester psychology. An applicant who feels the earned GPA is indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination which will be taken into consideration by the admissions committee in its evaluation of the Admission into the application. program is competitive. Not all candidates who meet these minimum criteria are accepted into the program.

Degree Hours: (80)

Professional School Psychology (3) SPS 6805 Professional Problems and Issues in School Psychology

3

3

3

3

3

3

3

3

3

3

Psychological Foundations (15) MHS 6513 Human Interaction I: Group Process and Social Behavior

SDS 6930 Special Topics in Counseling and School Psychology EEX 6208 Medical Aspects of Disability

EDF 6211 Educational Psychology EDP 6505 Human Development:

Child and Adolescent

Educational Foundations (9) Social, Philosophical EDF 6608

and Historical Foundations of Education EEX 6227 Educational Assessment of Students with Exceptionalities

EEX 6912 Advanced Theory and Research in Special Education

EEX 6051 **Exceptional Children** and Youth

SPS 6191 Psycho-Educational Assessment I: Intellectual 3 SPS 6191L Psycho-Educational Assessment I: Lab SPS 6192 PsychoEducational Assessment II: Process 3 SPS 6192L Psycho-Educational Assessment II: Lab SPS 6193 Psycho-Educational

Psycho-Educational Assessment (16)

Behavior 3 **EDF 6444** Assessment Consultation and Collaboration for Culturally and Diverse Populations 3

Assessment III:

Interventions, Counseling & Specialized Techniques (15) MHS 5400 Counseling Theories and Skills 3 MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education 3 SDS 5460 Crisis Counseling and

Intervention Family-School SPS 6199 Collaboration and 3 Consultation Advanced Counseling MHS 6411 and Consultation:

Theory and Practice MHS 6511 Group Counseling with Children and

3 Adolescents ۸r SDS 6411 Counseling Children 3

and Adolescents Statistics, Measurement, Program Evaluation & Research Design (6) EDF 5481 Analysis and

Application of Educational Research Education MHS 6630 Program Evaluation in Counseling and School

Psychology **Behavioral** EDP 7058 Intervention Research

and Evaluation in Education Practicum (3)

3

3

SPS 6193 Psycho-Educational Assessment III: Practicum

Internship (10) SPS 6678 Supervised Field Experience in School Psychology
(1200 clock hours)
*Students are required to take one elective (3 credits).

10

The student is required to enter an internship in School Psychology under the supervision of a field based school psychologist for a period of 1200 clock hours. This internship is a full-time, eight hour day, five day week involvement and students entering the program should plan for it during the final stage of their training. At least 600 hours of the internship must be in a setting from kindergarten to grade 12 in a public school. Other approved internship experiences may include private state approved educational programs or other appropriate mental health-related programs or settings for the education of children and youth.

All students entering the School Psychology program with an undergraduate degree in an area other than education must enroll for the courses in general professional education required to meet certification requirements in the State of Florida and show passing scores on the CLAST Exam. This exam may be waived after July 1, 2002, if the student has a GRE score of 1000 or above. All applicants must also have completed 15 hours of prerequisite undergraduate course work psychology.

Former recipients of the MS degree in School Psychology at this institution may upgrade their degree to the Ed.S. by taking a sequence of courses approved by the department.

New Graduation Requirements:

- ➤ GPA of at least 3.0
- Successful demonstration of the Florida Educator Accomplished Practices
- Passing all three sections of the Florida Teacher Certification Exam.

Note: If you pass the CLAST prior to July 1, 2002, you do not need to take the new General Knowledge test.

Doctor of Education in Exceptional Student Education

The Doctoral Program in Exceptional Student Education prepares leadership personnel capable of advancing educational opportunities available to students with disabilities and the professional who serves them. The program prepares professionals for a broad view of leadership, capable of

assuming roles as administrator, curriculum specialist, researcher, advocate, inservice and preservice trainer and others. Graduates take on leadership positions in schools, state government, private non-profit agencies, professional organizations, and other institutions of higher education.

Admission Requirements

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Admissions:

- 1. A completed Application for Graduate Admission with appropriate fees
- An official copy of the Graduate Record Exam (GRE) scores.
- Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Advanced Graduate Studies in the College of Education.

- 1. Three letters of reference attesting to the applicants ability to succeed in doctoral study.
 - 2. A current resume/vitae.
- A portfolio that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program. See department application for guidelines.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation are reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

- 1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work;
- A 3.25 GPA in all graduate work attempted;
- A master's degree from an accredited institution;
- A minimum combined verbal and quantitative score of 1000 on the GRE;
- 5. Foreign students must demonstrate a TOEFL score of at least 500.

Upon completion of the review of the file, the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.

	•	
Professiona	Studies Core: (6)	
EDP 7057	Educational Psychology	:
	Advanced	
	Applications	3
EDF 7937	Advanced Topics in	
	Social Foundations of	
	Education	3
Special Edu	cation Core: (18)	
EEX 7930	Professional Seminar in	
	Special Education	
	(repeated 6 times)	1
EEX 7933	Advanced Topics in	
	Special Education	
	(repeated 2 times)	6
EEX 6912	Advanced Theory and	
	Research in Special	
	Education	3
EEX 6535	Seminar in Special Ed.:	
	Supervision and	
	Leadership	3
EEX 7977	Research and	
	Evaluation in Special	
	Education	3
EEX 7964	Comprehensive	
	Examination	0
Research M	ethods and Statistics:	
(12)		
STA 6166	Statistical Methods in	
	Research	3

Research Methods in

Experimental Design

Behavioral Intervention

Research and Evaluation

Qualitative Foundations

3

3

3

3

Education:

and Analysis

in Education

Quantitative

Education

Research

Foundations of

of Educational

EDF 6486

EDP 7058

EDF 6403C

EDF 6475

Cognate or Minor Area of Study(15-18)

Course work in a career emphasis including: Administration and Supervision, Educational Psychology, or a self-designed minor area of study. A majority of students design a cognate area with their Program of Study Committee.

Dissertation Study (24) EEX 7980 Ed.D. Dissertation

Other Requirements:

Leadership competency activities, candidacy research, candidacy examination, residency (18 credits within one calendar year), dissertation proposal, dissertation, oral defense of dissertation.

Doctoral Cognate in Educational Psychology

The doctoral cognate in Educational Psychology provides advanced professional development for students already working toward the Doctor of Education in a number of majors available within the College.

The cognate prepares students in one of three areas of educational psychology:1) learning and instruction, 2) individual differences in development, and 3) measurement and assessment. The cognate provides students with foundational and advanced applications of psychology by offering alternative programs of study. It also gives students the opportunity to work with faculty members in educational psychology, school psychology, school counseling, mental health, and special education programs and departments. A student who completes the cognate in Educational Psychology at the doctoral level is expected to: a) apply psychological principles to contemporary issues in education; b) seek ways to improve educational practice, evaluation, and assessment; c) develop innovative and facilitative teachprocedures at ing/learning developmental levels; and d) analyze the major psychologically based programs for educational reform. The cognate assists doctoral students to design research in their individual fields of study. (See Advisor)

Health, Physical **Education** and Recreation

Robert M. Wolff, Professor, and Chair, Parks and Recreation Management and Sport Management

Laura Blitzer, Associate Professor, Physical Education

Michelle A. Cleary, Assistant Professor, Advanced Athletic Training / Sports Medicine

Charmaine DeFrancesco, Associate Professor, Physical Education and Sport Management

Daniel L. Dustin., Professor, Parks and Recreation Managment

Dan K. Hibbler, Assistant Professor. Parks and Recreation Management Richard Lopez, Associate Professor, Exercise Physiology

Alexis McKenney, Assistant Professor, Therapeutic Recreation

David Sandler, Instructor, Strength and Conditioning

Debra R. Trigoboff, Instructor, Athletic Training

Bill Yougue, Assistant Professor. Physical Education

The Department of Health, Physical Education, and Recreation offers programs leading to the Master of Science degree in Exercise and Sport Science with tracks in Exercise Physiology, Strength and Conditioning, Advanced Athletic Training/Sports Medicine, Parks and Recreation Management, with tracks in Leisure Service Management and Recreational Therapy; and Physical Education with tracks in Physical Education Teacher Certification and Sports Management. The program requirements and descriptions listed below are subject to change without notice. Program faculty should be consulted for academic advisement.

All stated admission requirements are subject to change and should be considered minimal. A student who meets these minimal requirements is not automatically assured admission.

It is the responsibility of the student to ensure that he/she has met the requirements.

Master of Science in **Exercise and Sports Sciences**

The graduate specialization in exercise physiology is designed to prepare individuals to work in the fields of adult fitness, cardiac rehabilitation, sports conditioning and medicine in a supervisory capacity. The program focuses on the physiological effects of exercise and training with application to the improvement of health and functional capacity of healthy individuals, as well as hospitalized and non-hospitalized individuals. The program emphasizes the role of exercise in prevention. diagnosis, rehabilitation. performance enhancement. program enables students to develop the competencies required by the American College of Sports Medicine for certification as an Exercise Specialist, a Health Fitness Director. and a Program Director. The program also prepares students for the National Strength and Conditioning Association's certified Strength and Conditioning Specialist certification. We are recognized by the National Strength and Conditioning Association as being an institution that provides and prepares individuals for the Strength and Conditioning Profession.

Admission Requirements

An applicant for admission to graduate study must meet the existing criteria set forth by the Florida Board of Education. Presently, these are a 3.0 GPA for the last 60 hours of upperdivision coursework, a resume, three letters of professional recommendation, and a scholarly writing sample.

Prerequisite Classes

One class in each of the following reas: physiology, kinesiology. anatomy, physiology, and nutrition.

Degree Hours: (30)

Required Cores Courses (18)

The program offers four strands a cardiac rehabilitation strand, an adult fitness strand, a sports conditioning strand and a sports medicine strand. A strand is a three course sequence which prepares a student to work in a supervisory capacity within a specialty area in exercise and sport sciences. Each student is required to complete a minimum of three strands in partial fulfillment of his/her requirements for a masters degree in exercise and sport sciences.

Internship Requirement (0-6)

Most students will be required to enroll in a minimum of three credits of internship. The internship setting must provide the student with an opportunity to apply what he/she has learned in at least one of the three strand areas selected. A student may enroll in six credits of internship, if he/she wants to intern in two of the strand areas he/she selected. In special circumstances, the internship requirement may be waived.

Research Requirement (3)

One advisor approved course in research. One recommendation is EDF 5481, offered by the College of Education.

Class Seguence F

Class Seq	uence
Fall Semest	er
PET 5387	Exercise Test
	Technology
	(or elective for students
	with ACSM
	certification)
PEP 5115	Health/Fitness Instructor
	(or elective for students
	with ACSM
	certification)
EDF 5481	Analysis and
	Application
	of Educational Research
	(or approved
	alternative)
PET 4383	Evaluation in Exercise
	Physiology
PET 4xxx	Personal Training

	Strength and
	Conditioning
PET 5931	Special Topics in
	Evercise Science

Advanced Concepts in

	Excitise Selelice
PET 6940	Internship in Exercise
	Physiology

Spring Semester

PET 4389

PEP 5116	Exercise Specialist
PET 5693	Exercise Prescription
	for Special Populations
PET 5xxx	Comprehensive
	Conditioning of Elita

	Conditioning of Elite
	Athletes
PET 5625	Sports Medicine

PET 6940	Internship in Exercise
	Physiology

	1 Hysiology
PET 4xxx	Fitness for Older

Adults Summer Semester

PET 6775	Health/Fitness
	Director
DET /506	D

1 51 0/65	i togram Director
PET 6940	Internship in Exercise
	Physiology

HUN 6248	Sports Nutrition
PET 5xxx	Advanced Analysis of

Sport Movement

Advanced Athletic

Training/Sports Medicine Track

The Advanced Athletic Training/Sports Medicine track is designed to inculcate the student with the conceptual and theoretical basis for athletic training principles and techniques through the experiential process. The program offers advanced study in various areas of sports medicine and provides opportunity for specialization and added qualifications. Research in the field of athletic training allows the practitioner better performance in the workplace and gives athletic training increased credibility and exposure. This recognition enhances an athletic trainer's prestige and marketability. In the end, the student will be better Prepared to earn higher positions as an allied health care professional in the athletic training and sports medicine setting.

Admission Requirements

An applicant for admission to graduate study must meet the existing criteria set forth by the Florida Board of Education. Presently, these are a 3.0 GPA in the last 60 credits of the undergraduate program, or a combined score of at least 1000 on the GRE (verbal and quantitative sections), or completion of a master's degree at an accredited university. All applicants must submit a GRE test score, resume or curriculum vitae, writing sample, personal interview, and three letters of recommendation with at least one from Athletic Certified supervising qualified other Trainer(s) or professional. Students must be certified or certification eligible for the National Athletic Trainers Association Board of Certification Examination, or other professional qualification, as approved by the Program director.

Prerequisite Classes

One class in each of the following areas is recommended to have been

completed prior to admission: Human Physiology. Human · Anatomy. Kinesiology, Biomechanics, Exercise Care and Physiology, Nutrition, Prevention of Athletic Injuries, Evaluation/ Assessment of Athletic Injuries, First Aid and Emergency Therapeutic Exercise, Care. Therapeutic Modalities, Organization and Administration of Athletic Training, Psychology, Health and Wellness & Community Health .

Degree Hours	s: (36)
Required Con	res Courses (21)
PET 5xxxL	Advanced Analysis

ET 5xxxL	Advanced Analysis of
	Sport Movement & Lab
PET 5625	Sports Medicine.

PET 5935 Special Topics in Athletic Training

ZOO 5xxxC/L Clinical Gross Anatomy &Lab

PET 5620 Advanced Principles and Practices in Athletic Training

PET 5xxx Advanced Physiology for the Exercise and

Sport Sciences
PET 5xxx Psychology of Athletic
Injuries

Research Requirement (9) EDF 5481 Analysis and

Application of

Educational Research Survey of Research in

PET 6597 Survey of Research Exercise and Sport Science

PET 5906 Directed Study in ESS
(Project Option)
PET 6xxx Thesis in Athletic

Training/Sports
Medicine. (Thesis
Option)

Electives (3-6)

Areas of specialization or added qualification are included as electives. Please consult with an advisor for appropriate courses. Examples of areas of specialization or added qualification include:

PET 5xxxC Comprehensive Conditioning of Elite Athletes

PET 5xxxC Advanced Personal Training HUN 6248 Sports Nutrition

PET 5216 Sport Psychology PET 5238C Motor Learning for Sport

PET 5256 Sociology of Sport
LEI 5503 Liability and Law in
Leisure, Recreation, and

Performance

Sports

Internship Requirement (0-6)

Most students will be required to enroll in a minimum of three credits of internship. The internship setting must provide the student with an opportunity to serve in a new setting. A summary paper or case study will be required upon completion of the internship. A student may enroll in six credits of internship, if he/she wants to intern in more than one setting. In special circumstances, the internship requirement may be waived.

PET 6940 Internship in ESS

Strength and Conditioning Track The Strength and Conditioning option is offered within the Exercise The courses Physiology Program. offered are designed to give the student both the theoretical and practical application of skills and knowledge required to work in a supervisory capacity in the field of Strength and Conditioning. The program takes an expanded view of strength training as it relates to all populations including athletes, fitness enthusiasts, sedentary individuals and special cases. Courses are geared as both preparation courses for certification and extensions of applied research in field application. Since the field of strength training is continually changing, courses are frequently updated to reflect current industry practices. In addition, students will take classes in advanced application and program administration. It is expected that the student will be involved in research and developmental aspects of Strength and Florida International Conditioning. University has been recognized by the National Strength and Conditioning Association (NSCA) as offering a program that prepares individuals to work in the field of Strength and Florida International Conditioning. University is also recognized by the Professionals Strength National Association (NSPA) as providing a comprehensive curriculum in Strength and Conditioning.

PET 4389 Advanced Strength Concepts

This is a pre-requisite course or an approved alternative may be accepted

3

3

3

PEP 5115	Health Fitness	
	Instructor	3
PET 5xxx	Advanced Personal	
	Training	3
PET 5xxx	Comprehensive	
	Conditioning of	
	Athletes	3
PET 5693	Exercise Prescription	for

PET 5693 Exercise Prescription for Special Populations 3 PET 5216 Sports Psychology 3

PET 5216 Sports Psychology 3
PET 5906 Directed Study in
Strength and

PET 5931 Conditioning
Special Topics in
Strength and

PET 5xxx Advanced Analysis of Sports Movement 3
PET 6775 Health Fitness Director 3

PET 6940 Internship in Strength and Conditioning

Degree Hours: (33)

EDF 5481 Analysis and Application of ucational Research or approved alternative

Master of Science in Parks and Recreation Management

The graduate program in Parks and Recreation Management is planned to provide advanced preparation for administrative and supervisory level positions within a leisure services delivery system and recreational therapy services. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in parks and recreation management or recreational therapy services. The Recreational Therapy track is designed prepare direct service and administrative personnel engaged in recreational therapy service delivery.

Admission Requirements

To enter the program in Parks and Recreation Administration, a student must have a 3.0 GPA for the last 60 hours of upper-division courses, career goals and aspirations, and three letters professional recommendation. possess a bachelor's degree, and have appropriate undergraduate preparation in recreation or recreational therapy.

Degree Program: (30-36)

Required Core: (12) LEI 5510 Program Administration in Parks, Recreation 3 and Sport LEI 5595 Seminar in Parks, ecreation, and Sports 3 Management LEI 5605 Philosophical and Social bases of Parks

and Recreation STA 6166 Statistical Methods in Research I 3 Analysis &

pplication Select from one of the following two tracks: (15-21)

Leisure Service Management Track

EDF 5481

LEI 5907 Directed Study in Parks and Recreation Management Advised Electives

A student who did not complete a Parks, Recreation, Leisure or Sports oriented internship/field experience during his or her undergraduate degree curriculum will be required to take: LEI 6922 Supervised Field

Experiences in Parks 6-9 and Recreation Therapeutic Recreation Core (3-12)LEI 5716 Program Planning in

Therapeutic Recreation 3 LEI 5719 Client Assessment. Evaluation, and

Documentation LEI 6725 Administrative Aspects of Therapeutic

Recreation LEI 6726 Problems, Concepts

Issues and Trends in Therapeutic Recreation 3

3

6

3

Thesis Option:

LEI 6970 Thesis: Therapeutic Recreation Advised Electives

Total Hours Thesis Option: 30 Non-Thesis Option:

Individual Study in LEI 5907 Parks and Recreation Management

Advised Electives 12 Total Hours Non-Thesis Option: 36

Students not currently certified as Therapeutic Recreation Specialists must also register for the following course as part of their overall program:

Prerequisites:

Individuals not currently certified at the professional level (CTRS) by the National Council for Therapeutic Recreation Certification will be required to take the following content courses for completion of the Therapeutic Recreation graduate curriculum:

Introduction to Therapeutic Recreation Disabling Conditions and T.R. Services Recreational Therapy Interventions Abnormal Psychology

Anatomy Physiology

3

3

3

15

Human Growth and Development LEI 6922 Supervised Field

Experiences in Parks and Recreation 6-9

Master of Science in Physical Education

The Master of Science degree program in Physical Education is designed to provide advanced preparation for teachers of physical education. Applicants must have a 3.0 GPA for the last 60 hours of upper-division coursework, an autobiographical statement, career goals and aspirations, and three letters of professional recommendation.

Professional Education: (9) EDF 5481 Analysis and Application of Educational Research EDF 6608 Sociological, Philosophical, and Historical Foundations of Education 3 EDF 6211 Educational Psychology: Foundations and Application 3

PET 5206 Youth Sport 3 PET 5216 Sports Psychology 3 PET 5238C Motor Learning PET 5256 Sociology of Sport 3 PET 5426 Curriculum in Physical Education

PET 5436 Physical Education Curriculum Practicum in Physical PET 5948 Education PET 6597 Survey of Research in Physical Education and

Sports 3 Electives 3

Sport Management Track

The purpose of this track is to provide an option for persons seeking a master's degree in an allied (nonteaching) career in physical education. This degree program would primarily be for persons who do not presently hold Florida teaching certification credentials. This degree does not provide teacher certification for the degree recipients. Examples of potential student clientele would be for persons who do not presently hold certification Florida teaching credentials. This degree does not provide teacher certification for the degree recipients. Examples potential student clientele would include all foreign and American college graduates with bachelor's degrees in physical education, sports science, business, recreation, and other related areas.

Admission Requirements

Students must hold a bachelor's degree from an accredited university and have a 3.0 GPA for the last 60 hours of upper-division coursework, an autobiographical statement, career goals and aspirations, and three letters of professional recommendation. 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 prerequisites for any course listed in the program's curriculum. A program advisor must be consulted regarding completion of degree requirements. Degree Hours: (33) Statistical Methods in STA 6166 Research 3 or EDF 5481 Analysis and Application 3 PET 5216 3 Sports Psychology PET 5256 Sociology of Sport 3 LEI 6577 Leisure Service 3 Marketing PET 6944 Supervised Field 3-6 Experience PET 6597 Survey of Research in Physical Education and Sports 3 LEI 5503 Law and Liability in Parks and Recreation and Sports LEI 5510 Program Administration Parks Recreation and Sports Advisor approved electives: (3-6) Please consult with an advisor for appropriate courses. Examples of approved electives are: LEI 5440 Program Development in Parks, Recreation & port PET 5206 Youth Sports 3 MAN 6501 Operations

Management

Organizational Behavioral

MAN 7275

3

3

Course Descriptions

Definition of Prefixes ADE - Adult Education; AFA -African-New World Studies: ARE - Art Education; CGS - Computer Applications; CHD - Child Development: EDA - Education: Educational Leadership; EDE -Education: Elementary: EDF -Education: Foundations: EDG -Education; General; EDH - Education -Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC -Education: Early Childhood; EED -Education: Emotional Disorders: EEX - Education: Exceptional Child. Core Competencies: EGI - Education: Exceptional Child, Gifted; EIA -Education: Technology; ELD -Education: Specific Learning Disabilities: EME - Education: Technology and Media; EMR -Education: Mental Retardation: ESE -Education Secondary: EVT -Education: Vocational/Technical: FAD - Family Development; FLE - Foreign Language Education; HEE - Home Economics Education; HHD - Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment: HOE - Health Occupations Education; HSC - Health Sciences; LAE - Language Arts and English Education; LBS-Labor Studies; LEI -Leisure: MAE - Mathematics Education: MHS - Mental Health Services; MUE - Music Education; PEL - Physical Education; PEM -Physical Education Activities; PEO -Physical Education Activities; PEP -Physical Education Activities; PET -Physical Education Therapy: RED -Reading Education: SCE - Science Education: SDS - Student Development Services: SPS - School Psychology: SSE - Social Studies Education: TSL -

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering; ALT-alternate years; AR-as required.

ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, program, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs. (F)

ADE 5383 Instructional Analysis and Design (3). Analyzing models for instructional analysis and design. Identifying the target population, instructional needs, job and task analysis. Developing learning objectives and related design. Prerequisites: ADE 5081, or ADE 5385, or permission of the instructor. (F)

ADE 5385 Adult Teaching and Learning (3). Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults. (S)

ADE 6180 Organizational and Community Processes in AE/HRD (3). Analyzing human resource and community development programs, the processes and implemental strategies; needs assessment objectives, curricula, recruitment, implementation, and evaluation. Prerequisites: ADE 5081, ADE 5385 or permission of the instructor.

ADE 6186 Comprehensive Program Evaluation in AE/HRD (3). Development of a comprehensive strategy for evaluating complex educational, training, human resource and organizational development programs. Prerequisites: ADE 6180 or permission of the instructor, (S)

ADE 6195 Perspectives on Adults with Disabilities (3). Distinguishing the various perspectives of the employment, inclusion, and education of adults with disabilities. Analyzing forces that inhibit solutions. Developing programs, curricula, materials, recruitment strategies, and evaluation designs. (SS)

ADE 6260 Management of AE/HRD Programs (3). Analyzing regulations affecting adult education/human resource development, selecting and training staff; selecting organizational patterns; executing managerial responsibilities; administering supportive services; relating training to organization development. (S)

ADE 6286 Instructional Development and Implementation (3). A systematic approach to developing instructional materials and strategies appropriate to adult and organizational needs. Implementation strategies including instructional delivery skills for adult learning. Prerequisite: ADE 5383.

ADE 6476 Computer Based Training (3). A basic course in computer based instruction and training. The application of instructional design to CBT, and proficiency in an authoring software. A working knowledge of personal computers is recommended. Prerequisite: ADE 5383 or Permission of the instructor, (F)

ADE 6674 Trends and Issues in AE/HRD (3). Presentation and analysis of state-of-art trends impacting development of human resources in specific organizations including educational agencies/business & industry/public sector and commerce. Prerequisites: ADE 6180 or equivalent. (F)

ADE 6906 Directed Study in Adult Education and Human Resource Development (1-3). Specialized intensive study in areas of interest to the student. Subject to approval of program adviser. (AR)

ADE 6925 Workshop in Adult Education and Human Resource Department (1-6). Intensive development of selected competencies related to instructional, curricular and/or administrative skills of special interest to students in adult education/human resource development. (AR)

ADE 6930 Seminar in Adult Education and Human Resource Development (1-3). Intensive study of instructional, curricular, and/or administrative principles and practices for the solution of problems of special interest to students in adult education and human resource development. (AR)

ADE 6935 Special Topics in Adult Education and Human Resource Development (1-3). 'Mini-courses' which provide for an examination of special facets of adult education and human resource development. (AR)

ADE 6945 Internship in Adult Education or Human Resource Development (3 or 6). Required in both masters programs. Internship in organizations according to student's needs & interests. Supervisory visits & conferences are periodically conducted. Prerequisites: ADE 6180, ADE 6260, ADE 6286 or Permission of the instructor. (F)

ADE 7475 Comparative Systems, Strategies and Materials for Adult Education/HRD (3). A review and critique of the prevailing inventory of packaged systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations. Prerequisities: ADE 6180, ADE 5383. (S)

ADE 7571 Consulting as an Adult Education/HRD Process (3). Examination of use of internal/external consultation in organizations. Strategies for making entry diagnoses interventions achieving internalization of processes outcomes. Prerequisites: ADE 6180, ADE 5383. (S)

ADE 7772 Review of Research in Adult Education and Human Resource Development (3). Required in the doctoral program. A review and synthesis of research & development activities in Adult Education/HRD. Examination of resources/practices/designs & justifications. Assessment of the status of research in this field. Prerequisites: EDF 5481, ADE 5383, ADE 6180. (F)

ADE 7920 Colloquium in AE/HRD (1-6). Lectures & discussions by distinguished educators/social scientists/organizational executives/graduate faculty and students. Colloquia present specific topics related to issues/trends/designs and applications. (S)

ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0). Comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite: Permission of Major Professor. (F,S,SS)

ADE 7980 Ed.D. Dissertation (1-12). Research for doctoral dissertation for those students approved for candidacy in the Adult Education/Hurman Resource Development Program. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F.S.SS)

ADE 7985 Dissertation Defense (0). Defense of Dissertation. Prerequisites: Permission of Major Professor and ADE 7980. (F.S.SS)

AFA 6325 Pedagogy in the African Diaspora: Literacy, Culture, Race and Gender (3). This course explores pedagogy broadly throughout the African Diaspora through critical examinations of race, culture, gender and praxis. The course provides opportunities for research in schooling, teacher preparation and gen-

der/class/race based literacy at home and abroad.

ARE 5457C Introduction to Computer Art (3). Exploration of the color computer, peripherals and selected software as tools for creating expressive art. Individual imaging projects, lesson plans, readings and presentations required. (AR)

ARE 5553 Introduction to Art
Therapy (3). An overview of art
therapy as a verbal and nonverbal
means of communication with special
emphasis on psychodynamic fundamentals inherent to the process for the
purpose of diagnosis, treatment, and
intervention for people with special
needs. (AR)

ARE 5555C Advanced Art Therapy (3). Examination of strategies, techniques and current theoretical approaches in art therapy. Delineation and application of an individual field experience is required. Prerequisite: ARE 5553. (AR)

ARE 5905 Directed Study in Art Education (1-6). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor. (F.S.SS)

ARE 5945 Supervised Teaching: Art Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Program and completion of prerequisite course work in education and subject matter area. Supervised teaching in an elementary or secondary school. (S)

ARE 6140 Curriculum and Instruction in Art (3). Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods, and materials for art instruction in the elementary, junior, and senior high school. (S)

ARE 6262 Organization and Coordination of School and Community Art (3). Procedures for the organization, coordination and evaluation of school, community, and in-service art programs, with particular attention to the urban multicultural setting. (F)

ARE 6304 Instruction in Early Childhood Art (3). Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in

preschool, kindergarten and primary grades. Lab fee required. (F,S,SS)

ARE 6315 Instruction in Elementary Art (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. (AR) Lab fee required.

ARE 6746 Seminar in Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481. (SS)

ARE 6925-29 Workshop in Art Education (3). Production and application of materials and techniques in art education, in a laboratory or field setting. Lab fee required. (SS)

ARE 7938 Doctoral Seminar in Art Education (3). Advanced doctoral study in current theories and research related to art education. Prerequisites: ARE 6746 and EDF 6486. (F.S.SS)

CHD 5266 Advanced Studies in Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent. (AR)

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application. Prerequisite: Computers in Classroom or equivalent. (AR)

CGS 5413 PILOT for Educators (3). Authoring language PILOT for teachers. Designed to develop language and its application to all levels of education. Prerequisite: EME 6405 or equivalent. (AR)

EDA 6061 Introduction to Educational Leadershlp (3). Introduction to Educational Administration/Leadership as a field of both study and practice. Emphasis is placed on the social, economic, and political context of contemporary educational administration; the organization, governance, and control of American education; and Educational Administration/Leadership as a profession and career. (F,S)

EDA 6063 Administration of Independent Schools (3). A survey course that examines the administration of private schools. (AR)

EDA 6192 Leadership in Education (3). Review, analysis and application of concepts and theories of leadership with emphasis on organizational and environmental factors, group dynamics, and change processes in education. (F.S)

EDA 6195 Communication in Educational Leadership (3). Analysis of principles, processes, and techniques of effective communication, public relations in educational leadership, and school-community relations. (S)

EDA 6225 Labor Relations in Education (3). Examines relations between the school board and its employees. (AR)

EDA 6232 School Law (3). A basic course in school law. (F,S,SS)

EDA 6242 School Finance (3). Describes and analyzes current and emerging school finance plans; the influence of the courts and federal and state legislation on those plans; the Florida Education Finance Plan; and the budget responsibilities of the school principal. (S)

EDA 6271C Microcomputer Application for Administrators (3). The role of computers in educational administration. Applications generic to effective leadership utilizing computer technology. (F)

EDA 6503 The Principalship (3). Organization and administration of the school; emphasis on competencies necessary for leadership and management of the school center, both elementary and secondary. (F)

EDA 6905 Directed Study in Educational Leadership (1-3). For advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisites: Admission to master's program and permission of instructor. (F, S,SS)

EDA 6925 Workshop in Educational Administration and Supervision (1-6). Offers an opportunity for experienced school personnel to participate in a problem-solving workshop. (AR)

EDA 6928 Special Topics: School Improvement (1-6). Offers an opportunity for experienced school personnel to participate in a school improvement workshop. (AR)

EDA 6930 Seminar in Educational Leadership (3). Review of selected concepts and competencies in the field of educational leadership. (AR)

EDA 6941 Practicum in Educational Leadership (3). Application of theory and research to field-based problems in educational administration/leadership. Prerequisites: Permission of the instructor. (AR)

EDA 6943 Supervised Field Experience (1-6). Supervised field experience appropriate to the student's interests and professional goals. Prerequisites: Permission of the instructor. (AR)

EDA 6945 Colloquium in Educational Administration (3). Examination of selected contemporary policy and practice issues in educational administration and supervision. Repeatable with permission of the instructor, (AR)

EDA 7069 Educational Policy (3). Review, analysis, and synthesis of various concepts and models of educational policy formation and implementation. Doctoral students only.

EDA 7103 Theories of Educational Administration (3). Examination of theoretical constructs and models related to the organization and administration of educational institutions. Prerequisite: Admission to doctoral program. Doctoral students only.

EDA 7233 Ethics and Educational Leadership (3). Exploration of ethical concepts and issues in educational administration and leadership. Enhancement of personal and professional skills of ethical reasoning and reflection in decision-making situations, (AR)

EDA 7236 Law and Higher Education (3). Analyzes the legal structure of higher education, including religion, academic freedom, employment, due process, student's rights, desegregation, tort liability, and other issues. (AR)

FDA 7288 Politics of Education (3). Analysis of the political dynamics of educational governance and the political dimension of educational administration. Doctoral students only. (F)

EDA 7550 Administration of Higher Education (3). Analysis of colleges and universities as social organizations with special emphasis on issues of administration, organization, and govemance in higher education. (AR)

EDA 7905 Directed Study in Educational Administration and Supervision (1-6). For advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisite: Permission of the instructor, (F.S.SS)

EDA 7930 Seminar in Educational Administration and Supervision (3). Consideration of critical issues and problems in the administration of educational institutions. (AR)

EDA 7937 Special Topics in Higher Education Administration (3). Seminar devoted to the in-depth treatment of selected special topics in theory, research, and practice related to higher education administration. (AR)

EDA 7943 Field Projects (1-6). Participation by advanced graduate students in field projects and studies. Prereqnisite: Permission of the instructor. May be repeated with permission of the instructor (AR)

EDA 7961 Dissertation Research Seminar (3). Designed to provide advanced doctoral students with a knowledge and understanding of the process of dissertation research and writing and of the dissertation defense. Prerequisite: Advanced Doctoral Standing, (AR)

EDA 7964 Comprehensive Doctoral Examination, Educational Administration and Supervision (0). Comprehensive doctoral examination in Educational Administration and Supervision. Prerequisite: permission of Major Professor. (F,S,SS)

EDA 7980 Ed.D. Dissertation (1-12). Research for doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

EDA 7985 Dissertation Defense (0). Defense of doctoral dissertation. Prerequisite: Permission of the Major Professor and EDA 7980. (F,S,SS)

EDE 5041 Issues in Elementary Education (3). Provides understanding, skills, and dispositions needed to build an initial knowledge base as to issues that impact elementary education from the historical, philosophical, sociological, psychological, international and contemporary perspectives. The course serves as an introduction to the field of elementary education. Corequisite: EDE 5XXX.

260

EDE 5267 Education of the Child in Urban Society (3). For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisites: EDF 3723, EDG 3321, EDG 3322. (AR)

EDE 5905 Directed Study in Elementary Education (1-3). Available to graduate elementary majors. Provides for individual investigation in the area of elementary education. Permission of the instructor required. (F,S,SS)

EDE 5925 Special Topics in Elementary Education (3). Available to undergraduate and graduate elementary majors. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required. (AR)

EDE 6205 Curriculum Design for Childhood Education (3). Required in masters programs in elementary education. A study of curriculum theory, research, construction and evaluation related to elementary schools. (AR)

EDE 6482 Field Research for Educators (3). The first part of a two seemester sequence providing the knowledge and skills necessary for conducting research in schools and administrators; using the results of this research to inform practice.

EDE 6488 Research in Elementary Education (3). Elective in masters program in elementary education. Required for students in doctoral program. Research in elementary education and the paradigms associated with this research. Prerequisite: EDF 5481. (AR)

EDE 6930 Seminar in Elementary Education (3). Required in masters program in elementary education. Required for students in doctoral program. Advanced study of critical issues and problems in elementary education. Perrequisite: EDE 6488. (AR)

EDE 6971 Thesis in Elementary Education (6). Elective in masters program in elementary education. Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDE 6488, and consent of instructor. Corequisite: EDE 6930. (F.S.SS)

EDE 7935 Doctoral Seminar in Elementary Education (3). Required for

students in doctoral program. Advanced doctoral study of current theories and research related to elementary education. Prerequisites: EDE 6488 and EDE 6930. (AR)

EDF 5216 Effective Learning in the Classroom (3). A behavioral approach to effective teaching techniques, includeing theoretical background, behavioral definitions, writing effective objectives, and evaluation of effective learning in the classroom. A field experience will be included. (AR)

EDF 5432 Measurement and Evaluation in Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481. (F,S,SS)

EDF 5443 Measurement and Evaluation in the Classroom (3). Basic concept in educational measurement, utilizing measurements in instruction, construction of teachermade tests and other classroom assessments, portfolio and performance assessment, interpretation of standardized test scores.

EDF 5481 Foundations of Educational Research (3). Competencies required for critical understanding, evaluation, and use of published educational research: Understanding quantitative and qualitative methods; sampling; measurement; data collection and analysis; and inference process. (F.S.SS)

EDF 5517 History of Education in the Changing Social and Philcosophical Context of the American Republic (3). An historical examination of formal education in the changing social and philosophical context of the American republic. Special focus on school/society relationship. (F,SS)

EDF 5820 Latin American Education: An Historic and Contemporary Overview (3). Historical and current development of Latin American Education, and analysis of principal forces shaping this development. (AR)

EDF 5821 African Educational Systems: A Comparative Approach (3). Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices. (AR)

EDF 5851 Social/Cultural Conflict in Educational Change (3). This course

explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. (AR)

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education. consideration of the role of education in fostering intercultural understanding both nationally and internationally. (F)

EDF 5881 Foundations of Bilingual Education (3). Fundamental theories and models of bilingual education, and information about the historical, philosophical, theoretical and legal background for bilingual multicultural programs in the United States. (AR)

EDF 5905 Directed Study in Education (1-3). The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairman of the Division and the approval of the instructor. (F,S,SS)

EDF 5941 Practicum: Urban Elementary Schools (3). Developing teacher competencies for the urban elementary schools. (AR)

EDF 5942 Multicultural Seminar and Practicum in Urban Education (3). Effective methods of educating immigrant and other minority children. Prerequisite: Current Florida Teaching Certificate. (AR)

EDF 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophics and systems through planned travel and study abroad. (SS)

EDF 5XXXL Extending Mentoring
Strategies (1). Extends clinical
supervision strategies to include
emphasis on Florida Educator
Accomplished Practices (FEAP), for
classroom teachers already trained in
Clinical Supervision.

EDF 6211 Psychological Foundations of Education (3). An intermediate course designed to apply theories and principles of learning and development to teaching and student learning in career areas related to education. Chal-

lenges of diversity and teacher effectiveness are emphasized. Prerequisites: EDP 3004 or equivalent. (F,S,SS)

EDF 6212 Research Problems in Educational Psychology (3). Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis. (AR)

EDF 6301 Cognitive Psychology in Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement or attention and memory. Prerequisite: EDP 6211. (AR)

EDF 6444 Consultation and Assessment with Culturally and Linguistically Diverse Populations (3). Issues in consultation and assessment of individuals with culturally and linguistically diverse backgrounds. (AR)

EDF 6472 Research Methods in Education: Introduction to Data Analysis (3). This course will provide an introduction to the analysis and interpretation of quantitative data in education and the helping professions. Prerequisite: EDF 5481

EDF 6475 Qualitative Foundations of Educational Research (3). Methods and procedures of qualitative reserach in education: Philosophical issues, conceptualizing research questions, choosing appropriate research designs, collecting data. manual computerized data analysis, and drawing inferences. Prerequisites: EDF 5481 and EDF 6486. (AR)

EDF 6481 Educational Research Methodology (3). This course is designed to provide doctoral students with an in-depth analysis of the methods and procedures of research in education. Topics will include conceptualizing educational research, proposals, writing research constructing measurement instruments, collecting and analyzing qualitative and quatitative data, and drawing inferences. Prerequisites: EDF 5481 and STA 6166 (or equivalnet).

EDF 6486 Advanced Data Analysis in Quantitative Educational Research (3). This is the second of a twosemester in quantitative data analysis. It provides the competencies required for data analysis in complex educational research designs. Prerequisites: EDF 6485 (AR)

EDF 6487 Field Research for Educators (3). The first part of two semester sequence providing the knowledge and skills necessary for conducting research in schools and classrooms by teachers and administrators; using the results of this research to inform practice. Prerequisite: EDF 5481

EDF 6602 Social and Philosophical Foundation of Education: An Urban Perspective (3). Conceptualization and development of education by development of social analysis and ethical decision making. Prerequisites: Admission to Focus/Masters program. (AR)

EDF 6608 Social, Philosophical and Historical Foundations of Education (3). Required of students seeking a regular Masters degree in Education. It will assist students in examining and explaining the differing social context of schooling, the diverse value orientation represented in formal and informal education and the major historical forces shaping schooling in America. (F.S.SS)

EDF 6621 Economic Principles of Education (3). Covers the linkages between education and the economy. Higher education, corporate interest, and privatization are examined in light of market forces. Emerging trends in the knowledge economy, labor/skill demand also discussed.

EDF 6636 Intercultural Studies: A Qualitative and Quantitative Analysis (3). Interrelationship between race, class, gender, ethnicity, and national origin and their influence in learning. Prerequisites: EDF 5481. (AR)

EDF 6651 International Development Education: Educational Technology, Planning, and Assessment (3). Introduction to the impact of technology in the delivery and management of education. Emphasis is placed on planning, implementation, and assessment in developing societies. (AR)

EDF 6654 Macro- and Micro-Planning in Education (3). This course is designed to study the theoretical and methodological foundations of educational planning in the U.S. and other countries. (F)

EDF 6658 Selected Topics in International Development Education: Current Policy Issues and Problems (3). This course is dedicated to the study of contemporary problems and issues in the fields of educational policy, planning, management, implementation, and research in developing societies. (AR)

EDF 6689 Urban Education: Defining the Field (3). Examines the state of urban education and contemporary urban life in America. Prerequisite: Admission to Masters program. (AR)

EDF 6812 National Educational Systems: A Comparative Analysis (3). Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of responses of national educational systems to common educational issues. (S)

EDF 6850 International Development Education: Contemporary Planning Models and Techniques (3). Designed to explore the relationship between education and the modernization/development process. Special emphasis on historic/contemporary educational planning models and techniques. Prerequisite: EDF 5481.

EDF 6852 Educational Development Issues in Context: A Multidisciplinary Perspective (3). A critical analysis of educational reforms of the past and the present, drawing on social science research and policy issues in the Third World. Prerequisite: EDF 6850. (S)

EDF 6906 Directed Study in International Development Education (3). Specialized intensive study in areas of interest to International Development Education majors. Prerequisite: Approval of program advisor and instructor, (F.S.SS)

EDF 6925 Special Topics in Urban Education (1-5). An opportunity for school personnel to develop special competencies in teaching in an urban environment. Prerequisite: Permission of the instructor, (AR)

EDF 6972 Thesis in International Development Education (3-9). A thesis is required of students in International Development Education which demonstrates the application of their analytical, conceptual, and technical skills to a specific educational development problem. Prerequisite: Final semester standing in the International Development Education Master's degree program. (F,S,SS)

EDF 7403C Data Analysis in Multivariate Educational Research (3). Design of multivariate research projects in education. This course focuses on applications of multivariate data analysis to educational research using a non-matrix approach. Prerequisites: EDF 6486. (AR)

EDF 7442 Instrument Construction for Research and Evaluation (3). Course covers data collection procedures such as surveys, interviews, observation, content analysis, and performance assessments. uisites: EDF 5481 or equivalent and an introductory measurement course.

EDF 7656 International Development Education: Innovative Approaches in Educational Planning (3). Introduction to educational plan-ning approaches which stress decentralzation. It focuses on new and innovative perspectives which emphasize strategic aspects of educational planning. (AR)

EDF 7934 Seminar in the Social Foundations of Education (3). Provides a social and philosophical frame of reference reflecting the society in which education occurs and the resulting implications for the functioning of schools. Prerequisites: M.S. or equivalent and at least one graduate course in history, philosophy or sociology, or equivalent. (AR)

EDF 7937 Advanced Topics in the Social Foundations of Education (3). In-depth, advanced exploration of a specific area, issue, or practice in relation to the evolving social, philosophical and historical context of American schooling. Prerequisite: Doctoral students only, (F.S.SS)

EDF 7941 Supervised Practicum in Educational Research and Evaluation (3). Completion of research or program evaluation project under the supervision of a faculty member. The product of this practicum is a publishable research report. Prerequisites: EDF 6481 and EDF 6486.

EDG 5325 Analysis of Teaching (3), Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior. (AR)

EDG 5414 Instructional Strategies for the Classroom Teacher (3). This course is specifically designed for the Modified Master's Program in Education. Focus is on generic teaching

strategies suitable for teaching in South Florida. Special Emphasis will be placed on the development of competence and knowledge supportive of a reflective practitioner. Prerequisite: Permission of the instructor. Corequisite: EDG 5414L. Field experience required. (F,SS)

EDG 5414L Instructional Strategies Lab (3). Applies basic knowledge and skills necessary for teaching. Required of all in mod-masters programs. Corequisites: EDG 5414. (F,SS)

EDG 5417 Learning Styles Applications (3). Designed to help educators use learning styles information to change instruction and improve student achievement. Prerequisite: Tentative admission to Master's program. (AR)

EDG 5707 Cultural and Cross- Cultural Studies (3). Overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, intercultural communica-tion. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S,SS)

EDG 5941 Practicum: Secondary Schools (3). Developing teacher competencies in urban secondary schools. (AR)

EDG 6250 Curriculum Development (3). Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling, (S.SS)

EDG 6286 Curriculum Evaluation and Improvement in Urban School Systems (3). Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum. (S)

EDG 6608 Multicultural Education: Defining the Field (3). Multicultural education and its impact on teaching and the profession. Prerequisite: Admission to Urban masters program. (AR)

EDG 6693 Problems in Curriculum and Instruction: Elementary (3). Investigation of current problems and solutions to essential curricular and instructional issues in elementary education. Prerequisites: EDE 6205, EDE 6225 or equivalent. (SS)

EDG 6694 Problems in Curriculum and Instruction: Middle School (3). Investigation of current problems and solutions to essential curricular and instructional issues in Middle School education. Prerequisite: ESE 6215 or equivalent. (SS)

EDG 6695 Problems in Curriculum and Instruction: High School (3). Investigation of current problems and solutions to essential curricular and instructional issues in high school education. Prerequisite: ESE 6215 or equivalent. (SS)

EDG 6920 Colloquium in Curriculum and Instruction (1-6). Selected readings, presentations and discussions on topics related to curriculum and instruction. Colloquia considers specific topics related to issues, trends and applications in the broad field of education. Prerequisite: Masters Degree.

EDG 6925, 6926, 6927, 6928, 6929 Special Topics in General Professional Education (1-3). Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education. (AR)

EDG 6943 Supervised Field Experience (1-5). Students are provided an opportunity to perform supervisory duties appropriate to the students professional goals. Only advanced graduate students are permitted to enroll. (AR)

EDG 7222 Curriculum: Theory and Research (3). Theories of curriculum organization and a survey of curriculum research and historical patterns of curriculum development. Prerequisite: EDG 6250. (F)

EDG 7362 Instruction: Theory and Research (3). Theories of instruction and research in the learning process, creativity, the thought process, human relations and group dynamic and other fields related to the development of instructional theory and practice. Prerequisites: EDG 6250 or Psychology of Learning. (S)

EDG 7391 Seminar in Instructional Leadership (3), Review theories of change and organizational development applicable to education. Discussion of rules and functions of supervisors, curriculum developers and other leaders in the instructional process. Prerequisites: EDS 6115 or EDS 6050, (F)

EDG 7665 Seminar in Curriculum (3). Provides advanced doctoral students the opportunity to participate in a

high level seminar focused on identifying the forces which shape curriculum theory and practice. Prerequisite: EDG 7222. (S)

EDG 7667C Advanced Topics in Curriculum Studies (3). Advanced study of current topics and research issues in curriculum studies.

EDG 7692C Politics of Curriculum (3). Advanced study of theories, research, and processes of curriculum decision-making.

EDG 7923C Doctoral Seminar in Curriculum Studies (3). Advanced study of professional development activities and current research topics in Curriculum Studies.

EDG 7938 Doctoral Seminar in Instructional Leadership (3). Advanced doctoral studies in current theories and research related to instructional leadership. Prerequisite: EDG 7391. (F)

EDG 7964 Comprehensive Doctoral Examination (0). Prerequisite: Permission of Major Professor. (F,S,SS)

EDG 7980 Ed.D. Dissertation (1-12). Original contribution to knowledge in major field. Prerequisite: Permission of Major Professor Doctoral and Candidacy. (F,S,SS)

EDG 7985 Dissertation Defense (0). Defense of dissertation. Prerequisite: Permission of Major Professor and EDG 7980. (F,S,SS)

6045 Student College Development Theory (3). Overview of the most commonly used theories of student development in higher education including the research on which they are based and their application to practice with diverse student populations issues and settings.

EDH 6050C Women and Higher Education (3). Focuses on the history of women in higher education and provides a gender analysis of current higher education issues.

EDH 6051C Leadership in Higher Education (3). Analysis comparison of leadership theories, followership, leadership and management, ethics of leadership, and power and gender issues in higher education.

EDH 6905 Directed Study in Higher Education (1-6). Specialized intensive study in higher education and/or community college in areas of interest to the student. Subject to approval of program advisor. Prerequisite: Permission of the instructor. (F,S,SS)

EDH 6925 Special Topics in Higher Education/Community College (1-6). Intensive development of selected competencies related to instructional curricular, staff development and/or administrative skills of special interest to students in higher education and community college. Prerequisite: Permission of the instructor. (F,S,SS)

EDH 6935 Special Topics in Higher Education/Community College (1-6). This course provides for the examination of special aspects of higher education of interest to students in higher education and community college teaching. Prerequisite: Permission of the instructor. (F,S,SS)

EDH 6XXXC Access and Choice in US Higher Education (3). Examines who goes to college, how they choose, how they pay. Issues include college choice models, types of institutions, equality of access to college, financial aid, rankings, and affirmative action.

EDH 6XXXL College Student Life and Culture (3). Examines college students in the US from a socio-cultural perspective. Compares student life across historical contexts, various student types, and current issues related to student development.

EDH 7052 Student and Support Services (3). Comprehensive introduction and overview of student affairs in higher education including history, evaluation and growth, philosophical underpinnings, educational significance, administrative aspects and understanding of individual student service areas. (F)

EDH 7065 Higher Education: Philosophical/Historical Perspectives (3). This course examines basic philosophical positions in higher education; and the history of American higher education. A contemporary philosophical position is then developed. (F)

EDH 7204 Higher Education: Community College (3). This course examines the structure of the community college including: curriculum; administration and legal aspects; the community college concept; technical and career programs and current issues and problems. (S)

EDH 7225 Higher Education: Develonmental Programs (3). This course examines the spectrum of developmental programs in higher education. Special attention is given to program structure, academic support systems and curricula designed to increase student achievement. (F)

EDH 7307 Higher Education: Instructional Methods (3). This course will develop knowledge of and skill in the use of higher education instrutional methods, such as lecture, discussion, demonstration, TV instruction, and computer assisted instruction. (SS)

EDH 7308 Higher Education: Occupational Programs (3). A core course in the doctoral program in higher education: Instruction. It is designed to help students develop an in-depth knowledge of occupational programs in higher education and the students it serves. Prerequisite: Graduate standing, (S)

EDH 7401C Higher Education and Public Policy (3). The general topic of the relationship between the federal government and higher education is developed. Major attention is given to developments since WWII.

EDH 7402C State Policy and Higher Education (3). The genral topic of the relationship between the government and higher education is developed. Major attention is given to developments since WWII.

EDH 7505 Higher Education: Finance (3). An intermediate course in Higher Education. Presents the economic and financial issues of Higher Education providing base for administrators and practitioners.

EDH 7964 Comprehensive Doctoral Examination (0). Prerequisite: Permission of Major Professor, (F.S.SS)

EDH 7980 Ed.D. Dissertation (1-12). Research for doctoral dissertation. Prerequisites: Permission of Major Professor and Doctoral Candidacy. Course may be repeated as needed. (F,S,SS)

EDH 7985 Dissertation Defense (0). Defense of dissertation. Prerequisite: Permission of Major Professor and EDH 7980, (F.S.SS)

EDP 5053 Educational Psychology: Principles and Applications (3). Theories, empirical bases and principles of development and individual differences, learning environments, and assessment applied to teaching at all educational levels. Challenges of diversity are emphasized. Required of Modified Masters programs. (SS)

EDP 5219 Classroom Management (3). Provides teachers understandings, skills, and dispositions for successful classroom management. Prerequisite: EDP 5053 and Corerequisite: EDG 5414.

EDP 6215 Application of Learning Theory to Instruction (3). Analysis of selected learning theories and application of these theories to an instructional system. (AR)

EDP 6301 Cognitive Psychology in Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement or attention and memory. Prerequisite: EDP 6211 or equivalent. (AR)

EDP 6505 Human Growth and Life-Span Development (3). Advanced survey of principles of human development in bio-psychosocial terms; indepth study of infancy, childhood, adolescence, emphasizes applications to broad range of educational processes. Prerequisites: EDP 3004 and DEP 3000 (F)

EDP 6506 Human Development:
Across the Life Span (3). Advanced survey of life span human development. Demographic, physiological, sociological factors contributing to optimal functioning through adulthood and aging. Applications to counseling and education. (AR)

EDP 7057 Educational Psychology: Advanced Applications (3). Advanced doctoral level seminar. Reviews and applies educational psychology theories and empirical evidence to educational research, program development and policy making at all educational levels. Prerequisite: College of Education doctorate students. (AR)

EDP 7058 Behavioral Intervention Research and Evaluation in Education (3). Design and analysis of observational and behavioral studies in education. Includes single subject research studies, structured observation systems, and behavioral interventions. Prerequisite: EDF 5481. (S)

EDS 5051 Supervision and Professional Laboratory Experience (3). Content includes performance standards at the preservice teacher

preparation level, Clinical Educator training, mentoring, and classroom strategies that result in improved student performance.

EDS 6050 Supervision and Staff Development (3). Competencies in supervision and staff development.

EDS 6115 School Personnel Administraton (3). Knowledge and skills essential for exercising effective leadership in school personnel recruitment, selection, orientation, assessment, and professional development. (S)

EEC 5906 Directed Study in Early Childhood Education (1-3). Available to undergraduate and graduate students studying early childhood education. Provides for individual investigation in the area of early childhood education. Permission of the instructor required. (F.S.SS)

EEC 5926 Special Topics in Early Childhood Education (3). Available to undergraduate and graduate students studying early childhood education. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required. (AR)

EEC 6261 Education Programs for Younger Children (3). Required in masters program in early childhood education. Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research. (AR)

EEC 6455 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool, handicapped, and at risk children. Prerequisite: EEX 6017; EEX 3010 or EEX 6051 recommended. (AR)

EEC 6678 Research in Early Childhood Education (3). Elective in masters program in early childhood education. Required for students in doctoral program. Research in early childhood education and the paradigms associated with this research. Prerequisite: EDF 5481. (AR)

EEC 6705 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisite: none; EEX 3010 or EEX 6051 recommended. (AR)

EEC 6932 Seminar in Early Childhood Education (3). Elective in masters program in early childhood education. Required for students in doctoral program. Advanced study of critical issues and problems in preschool and early childhood education. Prerequisite: EEC 6678. (AR)

EEC 6948 Supervised Experience in Early Childhood Education (3-9). Available to graduate early childhood education majors. Provides field work in educational institutions and organizations involved in childcare and early childhood education. Prerequisite: Permission of the instructor. (AR)

EEC 6971 Thesis in Early Childhood Education (6). Design and preparation of an original scholarly investigation in early childhood education. Prerequisites: EDF 5481, EEC 6678, and consent of instructor. Corequisite: EEC 6932. (F.S.SS)

EEC 7932 Doctoral Seminar in Early Childhood Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to early childhood education. Topics may vary and may include: social, cognitive, affective and language development. Prerequisite: EEC 6678, EEC 6932. (AR)

EED 5225 Strategies for Students with Emotional Handicaps (3). Instructional strategies and specialized approaches for teaching students with emotional handicaps. Extensive field work required. Prerequisites: EDG 5414 and Lab, EEX 6051, EEX 6227, EEX 5608. (S)

EED 6226 Advanced Theory and Practice: Emotional Handicaps (3). Major theories in the area of behavior disorders, and skills in the application of these theories to education. (S,SS)

EEX 5060 Nature and Needs of Students with Mild Disabilities (3). Curriculum models, approaches and significant concepts and skills needed for educational planning and programming for students with mild disabilities. Prerequisites: EEX 5481, EEX 6912. (S)

EEX 5259 Literacy in Special Education (3). Provides teachers with knowledge of specific developmental, remedial reading and language arts strategies, assessment and implementation models that can be used for students with exceptionalities. (SS)

EEX 5282 Introduction to Audiology and Auditory Training for Students Who are Deaf and Hard of Hearing (3). The purpose of this course is to provide the opportunity to study the physical dimensions of sound, and the relationship between these. The etiologies, characteristics, and the diagnostic evaluation, treatment and rehabilitation associated will be discussed. Prerequisites: EHD 5110 and EHD 5344.

EEX 5608 Behavioral Approaches to Learning and Classroom Management (3). Application of behavioral principles to children and youth in educational and community settings. Required for special education modified masters' and out-of-field certification majors. Prerequisite: EEX 6051. (F)

EEX 5766 Instructional and Assistive Technology in Special Education (3). Provides teachers of students with disabilities instructional and assistive technology skills that enhance student learning and increase access to the general education curriculum. Prerequisite: EEX 6051.

EEX 5771 Personal Foundations and Transitional Services for Individuals with Disabilities (3). Explores personal living skills, employ-ability and transitional skills for adult-hood in relation to persons with mental, sensory and physical disabilities. (SS)

EEX 5841 Graduate Practicum in Special Education (1). The Graduate Practicum in Special Education provides opportunities for intensive and integrated teaching experiences in the classroom under the close supervision of master teachers and university supervisors. Prerequisite: Completion of professional studies and core courses. Corequisites: EED 5225, ELD 5235, EMR 5215.

EEX 6019 Autism (3). Presents the nature of autism, personal characteristics, patterns of development, and assessment and intervention strategies. Requires field activity. (AR)

EEX 6017 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisite: EEX 3010 or EEX 6051. (F)

EEX 6051 Education of Students with Exceptionalities (3). Significant concepts in relation to the educational needs of students with exceptionalities. (AR)

EEX 6065 Educational Programs for Secondary Level Students with Exceptionalities (3). Considers philosophies and models of secondary programs for students with mild disabilities. Emphasis is given to instructional methods in skills and content areas and identification of transition resources. Pererequisites: MAE 6336, RED 6336. (AR)

EEX 6072 Inclusion of Students with Exeptionalities (3). Awareness of issues underlying the movement to include students with disabilities in general education settings. Techniques and procedures for effective mainstreaming of these students. (SS)

EEX 6106 Acquisition of Speech and Language Skills (3). Development of normal speech and language, and knowledge of speech and language delays and disorders. (S)

EEX 6203 Psychological/Sociological Aspects of Disability (3). Psychological/sociological aspects of disability in relation to socio/political forces, attitudes, and behaviors that impede or facilitate the options of individuals with disabilities in schools and communities. (AR)

EEX 6208 Medical Aspects of Disability (3). Medical etiology and remediation of disability. Includes genetic, biochemical, nutritional, and physical agents in mental retardation, learning disability, and emotional handicaps. Prerequisite: EEX 3202 or equivalent. (F)

EEX 6211 Assessment of Learning and Behavior (3). Presents a model for assessing the skills and abilities of students with exceptionalities. Emphasis is on administration, scoring and interpretation of a variety of standardized tests, and communication of results in written reports and oral staffings. Prerequisites: EEX 3221 or

EEX 6227 or equivalent. Lab fee required. (AR)

EEX 6213 Assessment and Interventions for Young Children with Disabilities (3). Presents an ecological approach to assessment of young children. Formal/Informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisite: EEX 6017, EEX 3010 or EEX 6051. Corequisites: EEX 6455. Lab fee required. (S)

EEX 6227 Educational Assessment of Students with Exceptionalities (3). Presents a model for assessing the academic skills of students with exceptionalities. Emphasis is on use of standardized tests and development of curriculum-based assessments. Lab fee required. (F,SS)

EEX 6228 Integration of Curriculum, Assessment and Instruction (3). This course constitutes the culminating experience in the Masters Program by establishing the link between curriculum, assessment, and instruction. Prerequisite: Completion of required Masters course work. (S)

EEX 6236 Characteristics of Individuals with Severe Disabilities (3). Characteristics of individuals with physically impaired, health impaired, and profound communication disorders and behavior disorders, including autism. Medical etiology, assessment techniques, program planning for student and family. Prerequisite: Graduate level status. (AR)

EEX 6256 Ecological Intervention Strategies for Students with Severe Emotional Disabilities (3). Designed to have the graduate student apply an ecological framework in addition to educational principles to children and youth with behavior disorders. Prerequisite: EED 6226. (S)

EEX 6417 Guidance and Counseling of Gifted Students (3). Affective development, parental involvement, counseling theories, underachieving gifted. (SS)

EEX 6455 Programming for Young Children with Disabilities (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool age children with disabilities as well as children at risk. Prerequisites: EEX 6017, EEX 3010 or EEX 6051. Corequisite: EEX 6213. (S)

EEX 6765 Instructional Technology for Special Education (3). Provides teachers of students with special needs current knowledge in instructional technology, appropriate to enhance student learning. (F,S,SS)

EEX 6846 Seminar in Special Education: Issues and Trends (3). A forum to discuss, analyze, and evaluate current issues and trends in special education. Individual issues and trends will be planned and executed by students. (F)

EEX 6862 Student Teaching (6). Culminating field experience in a program for students with Exceptionalities, demonstrating competencies learned throughout the program. Prerequisite: successful completion of all program requirements. (F,S)

EEX 6863 Supervised Field Experience in Special Education (3-9). Demonstration in a field site of the full range of competencies in diagnostic teaching learned throughout the program. Placements include a variety of field settings. (F,S,SS)

EEX 6906 Directed Study in Special Education (1-6). Concepts or competencies contracted for by graduate students with a faculty member. (F,S,SS)

EEX 6912 Advanced Theory and Research in Special Education (3). Required by graduate students in the Masters or Doctoral programs. Investigation of advanced work in social and psychological research applied to persons with handicaps, mental retardation, learning disabilities, and emotional disturbances. Prerequisite: Certificate in Special Education and/or competence in Special Education. (S,SS)

EEX 6927 Special Topics in Special Education (1-6). Selected competencies in special education, developed in short-term, intensive workshops. (F.S.SS)

EEX 6971 Thesis In Special Education (3). Elective in Masters Program in special education. Design and implementation of original scholarly investigation in special education. Prerequisites: EEX 6912, EDF 5481, consent of instructor. (AR)

EEX 7930 Professional Seminar in Special Education (1). Required 6 semester seminar for new and continuing doctoral students in leadership and professional development issues facing doctoral professionals. Prerequisite: Doctoral standing. (F, S, SS)

EEX 7933 Advanced Topics in Special Education (3). In-depth study and analysis of topics affecting special education practice. Course can be repeated for credit. Prerequisite: Admission to doctoral program in ESE.

EEX 7937 Dissertation Seminar in Special Education (3, repeatable to 9). Designed to take doctoral students through the steps of completing a dissertation. Requires identification and development of a research problem. Prerequisites: Completion of special education core and research and statistics component. (F.S.SS)

EEX 7977 Candidacy Research and Evaluation in Educational Psychology and Special Education (3). Research activities required for Doctoral students in special education prior to candidacy and dissertation. Serves as a bridge between courses and the comprehensive examination. Prerequisite: Doctoral standing, (F.S.SS)

EEX 7980 Ed.D. Dissertation (1-12). Original contribution to knowledge in major field. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

EGI 5051 Nature and Needs of the Gifted (3). Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted-talented. (F)

EGI 5232 Educational Procedures and Curriculum for Gifted (3). Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms, and special classes. (5)

EGI 6306 Theory and Development In Creativity for Gifted (3), Required for graduate students seeking endorsement in Gifted Education. Knowledge and practice in theory and process of creative thinking and production of creative work. Prerequisite: Graduate level only. (F) EGI 6405 Special Populations Gifted (3). Required for graduate students seeking endorsement in Gifted Education. Knowledge and theory in cultural, psychological, and educational principles applied to gifted minorities, including the handicapped. Prerequisite: Graduate level only. (SS)

EHD 5110 Nature and Needs of Students Who are Deaf and Hard of Hearing (3). Identification and placement procedures, history of the field, and psychological factors affecting the development of students who are deaf and hard of hearing.

EHD 5246 Teaching Reading to Students Who are Deaf and Hard of Hearing (3). Knowledge and skills in teaching reading to students who are deaf or hard of hearing. Techniques and strategies in the primary grades, intermediate grades and content areas will be discussed as well as the exploration, creation and evaluation of basic reading materials. Prerequisites: EHD 5110 and EHD 5247.

EHD 5247 Teaching Language and Speech to Students Who are Deaf and Hard of Hearing (3). Historic approaches and current methods for teaching language and speech; knowledge of language and speech structures and principles needed by students who are deaf and hard of hearing; and an understanding of the development of language and speech in students who are deaf. Prerequisite: EHD 5110.

EHD 5341 Curriculum and Instruction of Students Who are Deaf and Hard of Hearing (3). Students will learn techniques for teaching learners who are deaf or hard of hearing including adaptations for instruction in content areas, multicultural instruction, development and implementation of IEPs. Prerequisites: EHD 5110, EHD 5247, and EHD 5402.

EHD 5344 Anatomy and Physiology for Teachers of Students Who are Deaf and Hard of Hearing (3). Exploration and study of the anatomy and physiology of all aspects of communication process. These aspects include the respiratory, phonatory, articulatory, acoustic, auditory, and neurologic systems. Prerequisite: EHD 5110.

EIA 5811 Equipment and Facilities Planning (3). Utilization of research, design, and technical knowledge and skill to plan and update technology education laboratory facilities and equipment. Prerequisite: Graduate standing. (F,S,SS)

EIA 5905 Directed Study in Technology Education (1-3). Identification, research, and reporting on problems of interest to the student in technology education. Subject to approval of program advisor. (F,S,SS)

EIA 5925L Special Topics in Technology Education (3). Selected topics related to instructional and technical areas. (F.S)

EIA 6683 Instructional Projects Development in Technology Education (3). Knowledge and skill in developing new and innovative instructional projects for use in technology education programs, grades 6-12. (F,S,SS)

EIA 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology education at the national, state, and local levels. (F.S.SS)

ELD 5235 Strategies in Teaching Students with Learning Disabilities (3). Instructional strategies and approaches for teaching students with learning disabilities. Extensive field work is required. Prerequisites: EDG 5414 and Lab, EEX 6051, EEX 6227, EEX 5608. (AR)

ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities (3). Major concepts in the area of specific learning disability, and skills in the application of these concepts to education, (S.SS)

EME 5315 Instructional Media (3). Development of competencies for effective selection and utilization of instructional media. Consideration of sources, selection, evaluation, and methods of implementing media. (AR)

EME 5403 Introduction to Instructional Delivery Systems (3). A study of the rapidly expanding electronic media technology and its impact on instructional delivery. Prerequisite: EME 3402 or EME 6405, (AR)

EME 5602 Multimedia in the Classroom (3). Use videodisc and compact disc formats; hypermedia; high resolution still images and graphics; audio-program material and text to improve the quality of teaching and student learning. Prerequisites: EME 3402, EME 6405, or equivalent. Corequisite: Basic knowledge of McIntosh environment, (AR)

EME 5945 Special Topics in Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications. (AR)

EME 6405 Computers in the Classrooms (3). Learning to use microcomputers in a school setting. Emphasis on evaluating and documenting software; creation of classroom materials leading to development of useful software. (F,SS)

EME 6408 Microcomputers as Teaching Tools (3). This course develops ability to use the microcomputer as an object, medium, and manager of instruction in the classroom. Prerequisite: EME 6405 or EME 3402 or Permission of the instructor. (F.S)

EME 6407C Instructional Programming for Teachers (3). An introductory course for teachers to use BASIC to write educational programs appropriate to the teacher's area of specialization. Prerequisite: EME 3402 or EME 6405 or Permission of the instructor. (AR)

EME 6412 Educational Courseware Evaluation and Development (3). This course develops ability to select, evaluate, design, and utilize appropriate software for the school curriculum. Prerequisites: EME 6405 or EME 3402 and one computer language or Permission of the instructor. (AR)

EME 6433 Learning Technologies in Science Education (3). Application of learning theories and research to learning technologies in science education. Development, testing and evaluation of curriculum materials.

EME 6507 Advanced Interactive Multimedia (3). Research on the use of text, color, sound, graphics and animation in multimedia presentations. Apply theory and research to design, develop, and evaluate educational multimedia materials using advanced technological tools and distribute them in different formats. Prerequisite: EME 6405, EME 5602.

EME 6628 Administrative and Instructional Applications of Technelogy (3). Topics of this course include data management, instructional management, teleconferencing, sched-

uling, and productivity software for educational leaders and school managers. (AR)

EME 6905 Directed Study: Computer Education (1-3). The course provides an opportunity for the student to plan and carry out an independent study project under direction. Prerequisite: Permission of the instructor. (F,S,SS)

EME 7457 Teaching and Learning at a Distance (3). The course will cover distance education technologies, history and research, needs of learners, design, development, and evaluation, intellectual property rights, assessing students at a distance. Prerequisite: Admission into doctoral program, permission of instructor.

EME 7936 Special Topics in Learning Technologies (3). Special topics in the area of learning technologies will be addressed in this course. Topics will vary from semester to semester. Prerequisite: Admission into doctoral program, Permission of instructor.

EME 7938 Advanced Seminar in Learning Technologies (3). Important emerging topics, issues, problems, and trends in the area learning technologies will be covered in this course. Prerequisite: Admission into doctoral program, permission of instructor.

EMR 5215 Strategies for Teaching Students with Mental Retardation (3). Familiarizes students with instructional strategies and specialized approaches for teaching students with mental retardation. Requires extensive field work. Prerequisites: EDG 5414, EDG 5414L, EEX 6051 and EEX 5608. (AR)

EMR 6852 Advanced Theory and Practice: Mental Retardation (3). Major concepts in the area of mental retardation and skills in the application of these concepts to education. (S,SS)

ESE 5344C Secondary Classroom Management (3). Provides students with the theoretical and practical approaches for dealing with the problems of classroom management within the goals, materials, and teaching strategies that form secondary classrooms.

ESE 6215 Secondary School Curriculum (3). Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations. (AR)

EVT 5078 Technical Education in American Society (3). Knowledge of the basic role and current status of technical education in an industrial democracy. Designed for students interested in post-secondary education. (S)

EVT 5168 Curriculum Development in Vocational Education (3). Knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization. (S)

EVT 5255 Cooperative Vocational Education Programs (3). Knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education. (F)

EVT 5265 Supervision and Coordination of Vocational Education Programs (3). Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals. (F)

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). First in series of graduate courses designed to prepare qualified health professionals holding bachelor's degrees with professional education skills necessary to become competent teachers. Approved for "special methods of teaching health occupations education." (AR)

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). Provides opportunity to expand/update the knowledge base of health care system combining experiences in health care delivery system with curriculum updating. Professional licensure and liability insurance required. May be repeated. (AR)

EVT 5369 Vocational Educational Media (3). Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts. (5)

EVT 5650 Trends and Issues in Vocational Education (3). Knowledge of the basic philosophical and curricular trends and issues in vocational technical education at the international, national, state, and local levels. (F)

EVT 5664 Community Relations and Resources for Vocational Education

(3). Knowledge and skill in utilizing community resources and establishing public relations procedures and practices to implement vocational education programs. (SS)

EVT 5695 International Comparative Vocational Education (3). Knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries. (S)

EVT 5769 Evaluation in Vocational and Technical Education (3). Knowledge and skill in the development of criteria, tests, measurements, and analysis of data to assess teaching, learning, and objectives. (F)

EVT 5905 Directed Study in Vocational/Technical Education (1-3). Identification, research, and reporting on a special problem of interest to the student. Subject to approval of program advisor. (F,S,SS)

EVT 5925 Special Topics in Vocational Education (1-6). Selected competencies related to instructional and technical areas. (AR)

EVT 5927 Special Topics in Health Occupations Education (1-3). Selected topics related to instructional and technical areas. (AR)

EVT 6157 Theory of Work and Careers in Vocational and Technical Education (3). Knowledge of concepts and principles of work, careers, and technology and related individual, social, and economic benefits with implications for vocational and technical education. Prerequisite: Graduate standing. (F)

EVT 6264 Administration of Vocational Education Programs (3). Knowledge of the principles, practices, functions, and roles of administration in the operation of vocational education programs. (S)

EVT 6318 Current Issues in Health Occupations and Nursing Education. (3). Designed to focus qualified health professionals holding a bachelor's degree with professional education skills necessary to identify and conduct research on current issues related to teaching in health occupations education. (AR)

EVT 6359 Vocational Education in a Multicultural Setting (3). Knowledge and skill in developing and modifying vocational education programs, mater-

ials, and practices for a multicultural setting. (SS)

EVT 6760 Research in Vocational Education (3). Knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education. (S)

EVT 6925 Special Topics in Vocational Education (1-6). Selected topics related to professional and program areas. (AR)

EVT 6930 Seminar in Vocational Education (3). Discussion of special instructional, curricular and/or administrative and supervisory problems and issues in vocational education. Prerequisite: Graduate standing. (F)

EVT 6946 Supervised Field Experience (3-6). Application and refinement of competencies in either classroom, laboratory, or administration and supervision, via school-based field experiences. Placement is subject to approval of program leader. (AR)

EVT 6947 Internship in Vocational Education (3). Knowledge and skill in a new leadership setting, relative to the student's selected area of emphasis. (AR)

EVT 7964 Comprehensive Doctoral Examination, Vocational and Technical Education Leadership. (0). Comprehensive Doctoral Examination in Vocational and Technical Education Leadership. Prerequisite: Permission of major professor. (F,S,SS)

EVT 7980 Ed.D. Dissertation (1-12). Research for doctoral dissertation for those students approved for candidacy in the Vocational and Technical Education Leadership Program. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F.S.SS)

EVT 7985 Dissertation Defense (0). Defense of Dissertation. Prerequisite: Permission of major professor and EVT 7980. (F,S,SS)

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit. (AR)

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension—an explora-

tion of attitudes and values related to sexuality. (AR)

FLE 5895 Bilingual Education
Teaching Methodologies (3). Examination of various approaches to bilingual
ducation, including specific school
and classroom organizations. Development of specific instructional strategies
for bilingual students. Issues in
elementary, secondary, adult, vocational, and special education will also be
addressed. (F)

FLE 5908 Directed Study in Foreign Language Education (1-3)(ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F.S.SS)

FLE 5945 Supervised Teaching:
Modern Languages (6). Supervised
teaching in a junior or senior high
school. Prerequisities: Admission to the
Modified Master's Track Program and
completion of prerequisite course work
in education and subject matter area.
(F,S)

FLE 6336 Methods of Teaching Modern Language (3). A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of tech-niques and materials for second language teaching. Prerequisite: LIN 3010 or ENG 3500 or equivalent. (F,S)

FLE 6925 Special Topics in Second Language Education (1-3)(ARR). Production and application of materials and techniques in second language education in a laboratory or field setting. (S)

FLE 6938 Seminar in Second Language Testing (3). Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing. Language profi-ciency, language and society, bilingual-bicultural education, and error analysis and the language learner. (S,SS)

HEE 5335 Trends and Issues in Home Economics Education (3). Analysis of current social, economic, and educational trends and issues impacting upon home economics education and their implications for current and evolving practices. (F)

HEE 5360 Teaching Child Development (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5361 Teaching Consumer Education and Family Economics (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5362 Teaching Clothing and Textiles (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5363 Teaching Family Life Education (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5364 Teaching Housing and Home Furnishings (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5365 Teaching Food and Nutrition (3). Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5905 Directed Study in Home Economics Education (1-3). Designed for advanced students in home economics education who wish to pursue specialized topics. Requires prior approval of instructor. (F,S)

HEE 5927 Special Topics in Home Economics Education (1-3). Development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (S)

HEE 6156 Teaching Home Economics in Diverse Environments (3). Utilization of current educational developments, evolving strategies, materials, and resources to teach and evaluate home economics programs in diverse settings. (S)

HEE 6915 Research in Home Economics Education (3). Analysis and application of research pertaining to philosophy, curriculum, evaluation, and teacher education in home economics. Subject to approval of program advisor. (F)

HEE 6928 Special Topics in Home Economics Education (1-3). Development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (F.S.)

HEE 6937 Seminar in Home Economics Education (3). Application of selected instructional, curricular, and/or administrative principles and practices to the solution of problems of special interest to home economics educators. Subject to approval of program advisor. (S,AR)

HES 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings. (AR)

HME 5225 Problems of Home Management in Contemporary Society (3). Influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 2410, HME 4230, or Permission of the instructor. (AR)

HME 5255 Independent Living for the Handicapped (3). Explores the home and personal living skills required to empower persons with mental and physical limitations to achieve their maximum independence. Suitable for students in special education, health, physical education, recreation, social work, home economics or anyone planning to work with elderly or handicapped. Approved for certification for teachers of the mentally retarded. (AR)

HSC 5455 Basic Driver Education (3). Content includes knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement. (AR)

HSC 5456 Advanced Driver Education (3). Content includes advanced skills for the teaching of driver's education. Prerequisite: HSC 5455. (AR)

HSC 5465 Administration and Supervision of Driver Safety Education (3). Content includes competencies for teacher preparation and improvement in driver and traffic safety education. Prerequisites: HSC 5455 and HSC 5456. (AR)

LAE 5336C Special Teaching Lab -English (3). Development of Instructional Skills, Techniques, and Strategies for Teaching English in the Middle and Senior High School. Prerequisite: EDG 5414.

LAE 5355 Literacy Instruction in the Intermediate Grades (3). Provides understandings, skills, and dispositions needed to teach reading and writing to students who have advanced beyond beginning stages. Required for students in VE Modified Masters Program. Prerequisites: RED 5152 or equivalent. Corequisite: EEX 4940.

LAE 5415 Children's Literature (3). Required in Early Childhood, Elementary and Reading Education Master's Programs. Provides knowledge and skill in critical analysis of purposes, strategies for teaching and evaluation of children's literature.

LAE 5426 Multicultural Perspectives in Teaching Language and Literature for Young Adolescents (3). This course is designed to provide students with a theoretical and practical basis for teaching and reading multicultural literature in the secondary school. Prerequisite: Admission into the program. (AR)

LAE 5465 Adolescent Literature in Middle/Secondary Schools (3). This course examines a wide variety of adolescent and young adult literature. Assists students in the development of instructional strategies for organizing literary experiences among young learners. Prerequisite: Admission into program. (AR)

LAE 5908 Directed Study in English Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (AR)

LAE 5927 Special Topics in Language Arts (3). Available to undergraduate and graduate education majors. Provides opportunities to develop skills and knowledge of reading/language arts instruction. Permission of the instructor required. (AR)

LAE 5945 Supervised Teaching: English Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

LAE 6305 Instruction in Early Childhood Language Arts (3). Required in Master's program in Early Childhood Education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in preschool, kindergarten and primary grades. Prerequisite: LAE 4314 or Permission of the instructor, (AR)

LAE 6319 Instruction in Integrated Language Arts (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary education. Prerequisite: LAE 4314 or Permission of the instructor. (AR)

LAE 6339 Teaching English in the Secondary School (3). Analysis of methods, programs, and materials for teaching English in the middle school and senior high school, and development of teaching skills. Prerequisite: Undergraduate course in methods of teaching English. (S)

LAE 6815 Computers in English and the Language Arts (3). Covers the basics needed to integrate computers in teaching language arts. Emphasizes selecting and learning to use software to meet objectives in language, literature, and composition. Corequisite: English major or equivalent. (AR)

LAE 6925-26 Special Topics in English Education (1-3). Production and application of materials and techniques in English education in a laboratory or field setting. (AR)

LAE 6935 Seminar in English Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others, with the consent of the instructor. (F)

LAE 7938 Doctoral Seminar in English Education (3). Advanced doctoral study of current theories and research related to English education. Prerequisites: LAE 6935, EDF 6486. (AR)

LBS 5155 Workplace Diversity (3). Students examine theoretical debates surrounding workforce participation of women and minorities: historical position of these groups in labor force: social phenomena that contribute to

discriminatory practices and development of policies to eliminate discriminatory practices.

LBS 5406 Collective Bargaining and Labor Relations (3). A comprehensive study of major issues and themes in collective bargaining. American origins of collective Includes bargaining, labor law, unionization, contract negotiations patterns in contract content, impact of external laws, public sector unions, grievance arbitration and interest arbitration. Prerequisites: Permission of Instructor.

LBS 5464 Labor Arbitration (3). Study of labor dispute resolution with emphasis on grievances, fact-finding, and arbitration.

LBS 5465 Introduction to Mediation (3). Examines the role of mediation in resolving civil, commercial, family, public and workshop disputes. Incorporates mediation principles and different approaches skills. mediation, and current research in mediation. Prerequisites: Permission of Instuctor.

LBS 5466 Family Mediation (3). comprehensive Provides a understanding of conflict resolution, power and balances, emotional and psychological issues, negotiation techniques as well as the development of practical skills in the field of family mediation. Prerequisites: Permission of Instructor.

LBS 5467 Civil Mediation (3). A comprehensive understanding of the field of civil mediation as well as the development of the practical skills to be a civil mediator. Prerequisites: Permission of Instructor.

LBS 5485 Fundamentals of Conflict Resolution (3). Survey of the major theories contemporary organizational functioning and the management of conflict within and among organizations in a globalized world. Theories that center primarily within the fields of dispute resolution. sociology, and social interaction/group emphasized. will be Prerequisites: Permission of Instructor.

LBS 5507 Labor and Employment Law (3). Familiarizes the student with the legal issues and rules regarding unionization of employees, the collective bargaining process, relationship between the employee and his/her union, and the administration of agreements. collective bargaining

Examines the legal framework within which collective bargaining occurs and also familiarizes students with additional issues of rights in employment. Prerequisites: Permission of Instructor.

LBS 5658 Labor Movements and Economic Development (3). Relationships between unions and economic development strategies in developing/recently developed countries; emphasis on social movement unionism and unions in Latin America and Asia. Prerequisites: Permission of Instructor.

LBS 5930 Topics in Labor Studies (1-3). Selected topics or themes in Labor Studies. Themes will vary from semester to semester. With a change in content, course may be repeated. May include field work. Prerequisite: Graduate standing.

LBS 5931 Topics in the Philosophy and Methods of Conflict Research (3). Provides an examination of the philosophy, methods, and research in the field of conflict resolution. The particular content and orientation of the course may vary according to the particular focus examined. Prerequisites: Permission of Instructor.

LEI 5166C Deviant Leiure (3). Course explores leisure past times, that are forbidden by law, custom, or belief. Students will examine the negative aspects of leisure. Ex: substance abuse, harmful sex, gambling and gang activity.

LEI 5440 Program Development in Parks, Recreation, and Sports (3). The development of specific programs in parks, recreation, and sports. (S)

LEI 5503 Liability and Law In Leisure, Recreation and Sports (3). A detailed analysis of legal issues related to leisure service, delivery and sport management including legal foundations, legal liability, disabled services and current case analysis. (S)

LEI 5510 Program Administration In Parks, Recreation and Sport (3). A detailed analysis of administrative procedures and responsibilities in connection with parks, recreation facilities and human resources. (F)

LEI 5595 Seminar in Parks and Recreation Management (3). A discussion of current problems, issues, and trends in administration of parks and recreation programs. (F)

LEI 5605 Philosophical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of predesign, design, development, actualization of park and recreation facilities. Course will explore funding, budget, site selection, layout, and maintenance. (F)

LEI 5716 Program Planning in Therapeutic Recreation (3). This course is designed to prepare the student for the development of systematically designed therapeutic recreation service delivery programs from the viewpoint of the T.R. specialist and the T.R. administrator. (5)

LEI 5719 Client Assessment, Evaluation and Documentation in R.T. (3). The course addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands. (S)

LEI 5907 Directed Study in Parks and Recreation Management (3). An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor is required. (F,S,SS)

LEI 6577 Leisure Services Marketing (3). Advanced application of service marketing principles and practices to both public and private leisure service industry to improve both effectiveness and efficiency of operations. (S)

LE1 6725 Administrative Aspects of Therapeutic Recreation (3). An indepth examination of issues related to the roles and responsibilities of the Activity Therapies/Therapeutic Recreation Administrator. (S)

LEI 6726 Problems, Issues and Trends In Therapeutic Recreation (3). An elective that provides an examination of current issues, trends and professionalization concerns in therapeutic recreation. (F)

LEI 6727 Disabling Conditions in Therapeutic Activity Services Administration.(3). In-depth review of isabling conditions for the development of in-service training in recreational therapy and adapted activity services. (S)

LEI 6816 Leisure Education and Facilitation Techniques for Thera-

peutic Recreation (3). A focused survey of leisure education and counseling as applied in therapeutic recreation delivery systems. (F)

LEI 6922 Supervised Field Experiences in Parks and Recreation Administration (3-6). A practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required. (AR)

LEI 6970 Thesis: Therapeutic Recreation (3-6). Elective in the Masters Recreational Therapy Track. Design and preparation of an original scholarly investigation in recreational therapy. Prerequisite: EDF 5481. Corequisite: STA 6166. (AR)

MAE 5516 Diagnosis and Remediation in Mathematics (3). Available to undergraduate and graduate education majors. Provides study of symptoms, causes and consequences of children's math difficulties. Supervised case study included. Prerequisite: MAE 4310, or Permission of the instructor. (AR)

MAE 5655 Computers in Mathematics Education (3). Examines the use of computers (microcomputers) in secondary school mathematics. Designing, evaluating, and using varied types of programs in mathematics classes. Learning to use computers to design mathematics curriculum. (F)

MAE 5908 Directed Study in Mathematics Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F.S.SS)

MAE 5923 Special Topics in Elementary Math Education (3). Available to undergraduate and graduate education majors. Provides opportunities to produce and apply materials and strategies in math ed in elem and middle schools. (AR)

MAE 5945 Supervised Teaching:
Mathematics Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Alternate Track Master's Program and completion of prerequisite course work in education and subject matter area. (S)

MAE 6305 Instruction to Early Childhood Mathematics (3). Required in master's program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials and review

of research, in preschool, kindergarten and primary grades. Prerequisite: MAE 4310 or Permission of the instructor. (AR)

MAE 6318 Instruction in Elementary
Mathematics (3). Required in masters
program in elementary education.
Refines skills related to program
development, methods of teaching,
selection of materials, and review of
research, in elementary education.
Prerequisite: MAE 4310 or Permission
of the instructor. (F,S,SS)

MAE 6336 Teaching Mathematics in the Secondary School (3). Analysis of methods, programs, and materials for teaching mathematics in the middle and senior high school, and development of teaching skills. Prerequisites: Undergraduate secondary math methods and Permission of the instructor. (S)

MAE 6645C Workshop on Metric Education (1-3). A workshop on Metric Education: trends, teaching strategies, programs and materials. (AR)

MAE 6745 Current Trends and Issues in Mathematics Education (1-3). Trends and Issues in Math Curriculum, new textbooks, curriculum development projects; curriculum implementations and evaluations. Trends and Issues in Instruction, new techniques. Trends and Issues in Evaluations. "New tests", Research. (AR)

MAE 6899 Seminar in Mathematics Education (3). Designed to provide the advanced student with deeper understanding related to mathematics education. (SS)

MAE 7165 Curriculum Development in Mathematics Education (3). This course is required in the Ed.D. degree program in mathematics education. It will examine the history of K-12 mathematics curriculum and the current issues in mathematics education. Prerequisites: MAE 5655, MAE 6336, MAE 6899, and the entire advanced core.

MHS 5350 Educational-Vocational Counseling (3). Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development. Prerequisite: MHS 5400.

MHS 5400 Counseling Skills and Technques (3). Major theoretical con-

cepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and microcounseling.

MHS 6200 Measurement and Appraisal in Counseling (3). Concepts and skills related to the use of tests and other appraisal procedures in counseling. Particular emphasis on career and vocational choice processes. Laboratory experiences included. Prerequisite: EDF 5481.

MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education (3). Concepts and skills in using behavior modification, contingency contracting, cognitive behavior management, self-instructional training, problem solving skills and parent and/or teacher consultation.

MHS 6411 Counseling and Consultation in Community Settings (3). Extended laboratory experiences stressing the development of behavioral/cognitive intervention skills in short-term counseling and consultation Prerequisites: MHS 5400 and MHS 6410 or equivalent.

MHS 6427 Adult Psychopathology (3) Study of the causes, treatment, and diagnosis of emotional and behavioral disturbances in adults.

MHS 6428 Cross Cultural Counseling (3). Concepts and skills involved in counseling clients with backgrounds different from the majority culture. Prerequisite: MHS 5400.

MHS 6450 Substance Abuse Counseling (3). This course will educate mental health practitioners in understanding substances and to assist in counseling those who abuse them.

MHS 6470 Human Sexuality Counseling (3). Counseling issues, strategies and resources in human sexuality relative to mental health professionals. Prerequisite: MHS 5400.

MHS 6500 Theories in Group Dynamics (3). Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: MHS 5350, MHS 6513. (AR)

MHS 6505 Advanced Group Development Laboratory (3). Development of advanced skills in the analysis and understanding of group process, function, and structures through actual observation of an ongoing group.

Prerequisites: MHS 6513, MHS 6514. (AR)

MHS 6511 Group Counseling (3). Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisites: MHS 5400, MHS 6513, MHS 6514

MHS 6511L Group Counseling Lab (1). This course is designed to allow students to participate in a group counseling experience. It will be led and facilitated by a licensed mental health professional. Prerequisite: MHS 5400. Corequisite: MHS 6511.

MHS 6512 Organization Development in Education (3). Analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: MHS 6513 and MHS 6514. (AR)

MHS 6513 Human Interaction I: Group Process and Social Behavior (3). Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

MHS 6514 Human Interaction II: Analysis of Group Participation (3). Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority, and membership. Prerequisite: MHS 6513.

MHS 6519C Principles of Design in Group Intervention: Role of the Consultant (3). Focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on Diagnostic and behavioral skills that help groups become more effective. Perecquisites: MHS 6513, MHS 6514, MHS 6500, and MHS 6513. (AR)

MHS 6629 Human Interaction III:
Organizational Consultation (3).
Theoretical concepts and skills in
organizational development and
change. Competencies in systems diagnosis and assessment, consultation,
agenda setting, team building, decision-making, and feedback. Prerequisite: MHS 6513, MHS 6514. (AR)

MHS 6630 Program Evaluation in Counseling & School Psychology (3). Evaluation skills in the student's area

of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

MHS 6700 Ethical, Legal and Professional Issues in Counseling (3). Competencies in regard to the development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational set-

MHS 6800 Advanced Practicum in Counseling (3). Advanced competencies in counseling and consultation. Prerequisites: Course work completion.

MHS 6802 Personality Theories (3). A survey of the various cognitive, psychodynamic, behavioral, humanistic, existential and family systems theories of personality development and change are examined.

MHS 6820 Supervised Field Experience in Counseling (9). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. Prerequisites: MHS 6800 and course work completion.

MHS 6910 Directed Study in Counseling and School Psychology (1-6). Competencies contracted for between a student and an instructor in accordance with the student's individual needs. Permission of the instructor required.

MHS 6930 Special Topics in Counseling and School Psychology (1, repeatable to 9). Special topics in relation to counseling or school psychology. Permission of the instructor required.

MHS 6xxx Foundations of Mental Health (3). Examination of the significant events in the hisotriv of mental health care that has contributed to the development of the specialty within the counseling profession.

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education. (F,S,SS)

MUE 5928 Special Topics in Music Education (2). Applications of materials and techniques in music in a laboratory or field setting. (AR)

MUE 5945 Supervised Teaching: Music Education (6). Supervised teaching. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and the subject matter area. (S)

MUE 6305 Instruction in Early Childhood Music (3). Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (AR)

MUE 6316 Instruction in Elementary Music (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. (AR)

MUE 6345 The Methodology and Analysis of Music Teaching (3). A data based analysis of methods and programs in the public schools and the development of music pedagogy skills. Reviews current research findings and applies them where applicable to the field of Music Education. Required for the Masters Degree. Prerequisite: Undergraduate Degree. (F)

MUE 6785 Research in Music Education (3). A survey of current research and past research trends in music education. Applied training in techniques of design and data analysis. (AR)

MUE 6815 Psychological Foundations of Music Behavior (3). Overview of acoustical, psychological and physiological foundations of music as it influences human behavior. Covers musical acoustics, anatomy of human hearing, music perception, reactions, personality, mood and powers of music discrimination. Re-quired for the Master of Science in Music Education degree. Prerequisite: Undergraduate degree, (S)

MUE 6925-26 Special Topics in Music Education (1-3). Applications of new, innovative or contemporary materials and/or techniques in music education. May be used for elective credit with permission of the program director. (AR)

MUE 6938 Seminar in Music Education (3). Seminar topics concerning historic music education programs in the United States and other countries. as well as current issues and problems facing the music educator. Required for

the Master of Science in Music Education degree. Prerequisites: Undergraduate degree. (S)

MUE 6XXX Thesis in Music Education (1-3). Research and paper for Masters Candidates in Music Education. Prerequisite: MUE 6785 and Permission of Graduate Advisor in Music Education.

PEP 5115 Health/Fitness Instruction (3). Provides the knowledge and skills to evaluate and prescribe health and fitness enhancement programs for healthy adults. Prerequisite: PET 3351.

PEP 5116 Exercise Specialist (3). Provides the knowledge to prescribe exercise for persons with medical limitations, particularly cardiovascular disease. Prerequisites: PET 3351 and PET 5387. (S)

PEP 5117 Fitness for Older Adults (3). The course explores the value of physical activity for improving the physical and mental well being of older adults. Emphasis is placed on exercise prescription and supervision of programs for those working with older adults. Prerequisite: PET 3351. (AR)

PET 5052C Motor Learning for Sport Performance (3). The emphasis in this course is on current and advanced topics related to motor skill acquisition. Laboratory practices and applied techniques related to teaching are examined. (F)

PET 5206 Youth Sports (3). Provides insight into the issues surrounding youth sport programs including: program development and analysis, parental influences, relationship of sport to psycho-socio development. (AR)

PET 5216 Sports Psychology (3). Course includes an analysis of psychological variables that influence physical performance. The course is intended for prospective physical educators, coaches, and others interested in motor performance. (S)

PET 5256 Sociology of Sport (3). Students will be introduced to basic principles of the sociological bases of sport and physical activity. (S)

PET 5426 Curriculum in Physical Education (3). Emphasis on curriculum design and development for grades 6-12 Physical Education. Includes examination of objectives, content, methods of teaching and evaluation.

PET 5436 Physical Education Curriculum: K-8 (3). Examination of objectives, content, methods of teaching, and evaluative techniques in physical education. Emphasis on curriculum design and development.

PET 5447 Curriculum in Physical Education 6-12 (3). To understand the theoretical and practical aspects of designing, developing, and implementing curriculum for the secondary school.

PET 5521 Exercise Test Technology (3). Provides the knowledge and skill required to conduct an EKG monitored graded exercise test. Prerequisite: PET 3351. (F)

PET 5620 Advanced Principles and Practices in Athletic Training (3). Designed to provide the student with advanced knowledge and practical skills related to treatment and rehabilitation of athletic injuries.

PET 5625 Sports Medicine (3). The class includes topics related to the prevention and treatment of non-traumatic athletic injuries. Practical applications in laboratory experiences required. Prerequisite Exercise Physiology. (S)

PET 5693 Exercise Testing and Prescription of Special Populations (3). The course prepares a student to test and prescribes exercise programs for selected special population groups. Prerequisites: PET 3351.

PET 5716 Analysis and Observation of Teaching in Physical Education (3). Analysis of the teaching-learning process in physical education. Emphasis on systematic observation instruments and guidelines for systematic development of instructional skills. (F)

PET 5906 Directed Study in Physical Education (1-3). Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor. (F.S.SS)

PET 5925 Practicum in Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting. (F.S.)

PET 5931 Special Topics in Exercise Physiology (1-3). Designed to present contemporary issues and practices in exercise physiology. Prerequisite: PET 3360. (AR)

PET 5935 Special Topics in Athletic Training (1-3). Designed to present current trends and professional issues in Athletic Training.

PET 5936 Special Topics in Physical Education (1-3). Designed to present contemporary issues and practices in physical education and sport. (AR)

PET 5948 Practicum in Physical Education (3). Production and/or application of materials and techniques for physical education in a classroom and/or field setting.

PET 5XXXC Advanced Personal Training (3). This class is designed to prepare students for the National Strength Professionals Associations Certified Conditioning Specialist Examination. Prerequisite: PET 3351 or equivalent.

PET 5XXXC Comprehensive Conditioning of Elite Athletes (3). The course prepares a student to develop a comprehensive conditioning program including metabolic, speed, flexibility, plyometric and resistance training. Prerequisite: PET 3351.

PET 6405 Health Fitness Director (3). Designed to prepare the student for ACSM's Health Fitness Director certification. Prerequisite: PET 3351, and PEP 5115. (SS)

PET 6597 Survey of Research in Physical Education (3). Methods and techniques used in research in physical education. Emphasis on effective use of resources and writing techniques. (F)

PET 6785 Exercise Program Director (3). Designed to prepare the student for ACSM's Exercise Program Director certification examination. Prerequisite: PET 3351, PET 5387, and PEP 5115. (SS)

PET 6925-27 Practicum in Physical Education (1-3). Production and or application of materials and techniques for physical education in a classroom and or field setting. (F,S)

PET 6932 Seminar in Physical Education (3). Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport. (AR)

PET 6940 Internship in Exercise Physiology: Graduate (3-6). Clinical experience, supervised by physician, designed to provide the student with competence in exercise prescription and leadership in preventive and rehabilitative outpatient exercise programs. Prerequisites: PET 5387, PEP 5115, and PEP 5116. (F.S.,SS)

PET 6944 Supervised Field Experience (3-9). Students may use this course to become involved in an indepth study, research project, or any one of a variety of other activities, under the guidance of a faculty member. (AR)

PET 6971 Thesis in Athletic Training (1-6). Elective in the masters of Science in Athletic Training track. Design and preparation of and original scholarly investigation in Athletic Training. Prerequisite: EDF 5481. Corequisite: PET 6597.

RCS 6031 Rehabilitation Counseling: Principles and Practices (3). An orientation to the rehabilitation process including a survey of the history, principles, philosophy, and legal aspects of rehabilitation counseling and related fields.

RCS 6625 Service Delivery and Case Rehabilitation in Management Counseling (3). Evaluation disability and rehabilitation potential in the context of service delivery and case management in the vocational rehabilitation process. Prerequisite: RCS 6031 Rehabilitation Counseling: Principles and Practices.

RED 5304 Literacy Instruction in the Primary Grades (3). Provides understandings, skills and dispositions needed to teach reading and writing to students who are beginning to become literate. Required for students in VE Modified Masters Program. Prerequisites: EDG 5415 and EDG 5415L. Corequisite: EEX 4940.

RED 5339 Subject – Related Reading (3). Skills, techniques and strategies for scaffolding the reading of struggling students and enhancing the comprehension and learning independence of all students using subject area materials. Prerequisite: EDG 5414.

RED 5447 Analysis and Production Reading Materials (3). Elective in graduate program in Reading Education. Exploration, creation, and evaluation of basic reading materials. Prerequisite: RED 4150 or equivalent. (AR)

RED 5448 Teaching Reading by Computer (3). Elective in graduate

program in Reading Education, Exploring literacy development with technology. Evaluation and creation of computer programs for teaching reading in grades 4-12. No prior computer experience is required. (AR)

RED 5911 Directed Study in Reading (1-3). Elective in Reading Education. Directed study in area of reading instruction. Permission of the instructor required. (AR)

RED 5925 Special Topics in Reading (3). Elective in master's program in Reading Education. Study in a specified area of reading education.

RED 6247 Organization and Supervision of Reading Program (3). Elective in graduate program in Reading Education. Philosophy. design, and operation of public and private reading programs. Prerequisite: RED 6155 or equivalent. (AR)

RED 6305 Instruction in Early Childhood Reading (3). Required in graduate program in early childhood education. Program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood reading education. Prerequisite: RED 4150 or equivalent. (AR)

RED 6314 Instruction in Elementary Reading (3). Required in graduate program in elementary and reading education. Program development, methods of teaching, selection of materials, and review of research in elementary Reading Education. Prerequisite: RED 4150 or equivalent. (AR)

RED 6336 Reading in the Content Areas (3). Required in graduate programs in Elementary and reading education and in secondary Modified Master's Programs. Strategies for developing the reading abilities of students in specific subject areas. Prerequisite: RED 6314 For Reading Education majors. (AR)

RED 6515 Programs of Remediation In Reading (3). Required in graduate program in reading education. Knowledge and strategies necessary to improve students' reading abilities. Prerequisites: RED 6155 or 6305, RED 6546, or their equivalents. (AR)

RED 6546 Diagnosis of Reading Difficulty (3). Required in graduate program in reading education. Knowledge and strategies necessary to assess students' reading abilities. Prerequisite: RED 6155 or 6305, or its equivalent.

RED 6747 Research in Reading (3). Required in doctoral program and thesis track of Reading Education master's program. Elective in standard Master's track, Includes reading research, critique, methodology and planning. Prerequisite: EDF 5481.

RED 6805 Practicum in Reading (3). Elective in graduate program in reading education. Supervised experience as reading professional in teaching, assessing, supervising, or research role. Prerequisites: RED 6314. (F,S)

RED 6845 Clinical Procedures in Reading (3). Elective in graduate program in Reading Education. Reading diagnosis, instruction, and reevaluation in a clinical setting. Prerequisites: RED 6515, RED 6546. (AR)

RED 6931 Seminar in Reading Education (3). Required in doctoral program and thesis track of reading master's program. Elective in standard Master's track. Deals with theory and practice of reading instruction. Prerequisites: Permission of the instructor and RED 6747. (AR)

RED 6932 Critical Issues in Reading Education (3). Elective in Reading Education master's program. Explores topics in specific reading education. (AR)

RED 6971 Thesis in Reading Education (6). Required in thesis track of reading master's program. Design, implementation, and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor. (F.S.,SS)

RED 7912 Doctoral Directed Study In Reading (1-6). An elective course in the reading education doctoral program. Directed research in a specified area of reading education. Repeatable. Prerequisite: Admission to reading education doctoral program. (AR)

RED 7938 Doctoral Seminar in Reading Education (3). Required in Reading Education doctoral track. Advanced study in current theories and research related to reading education. Prerequisites: RED 6747, RED 6931. (AR)

SCE 5905 Directed Study in Science Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

SCE 5930 Special Topics in Elementary Science Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching elementary science. Permission of the instructor required. (AR)

SCE 5945 Supervised Teaching: Science Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area.

SCE 6306 Instruction in Early Childhood Science (3). Required in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. Prerequisite: SCE 4310 or Permission of the instructor.

SCE 6315 Instruction in Elementary Science (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education. Prerequisite: SCE 4310 or Permission of the instructor. (AR)

SCE 6635 Teaching Science in the Secondary School (3). Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills. (F.SS)

SCE 6637 Science Education and Community Resources (3). This course examines the utilization and cultivation of community resources to meet science education goals for various populations. (AR)

SCE 6925-26 Workshop in Science Education (1-3). Production and application of materials and techniques in science education in a laboratory or field setting. (AR)

SCE 6931 Special Topics in Science Education (3). An individual topic or limited number of topics not otherwise offered in the curriculum that facilitate science teaching in the elementary school will be selected. (AR)

SCE 6933 Seminar in Science Education (3). Analysis of research trends and selected topics in science education. Mainly for graduate students in secondary science education. Individual needs and interests will determine the fine structure of the course content

SCE 7165 Curriculum Development in Science Education (3). Analysis of theoretical basis of curriculum development in Science Education Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486. (S)

SCE 7761 Research in Science Education (3). Application of research methodology to Science Education. Analysis of current research. Development of research proposal in Science Education. Conduct field study. Prerequisites: SCE 6933, EDF 6486, SCE 7165. Corequisite SCE 7938. (SS)

SCE 7938 Doctoral Seminar in Science Education (3). Advanced doctoral seminar in current theories and research related to science education. Prerequisites: SCE 6933, EDF 6486. (SS)

SDS 5460 Crisis Counseling and Intervention (3). Prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss. (S,SS)

SDS 6411 Counseling Children and Adolescents (3). Theory and application of counseling elementary age children and adolescents including family issues and interventions, legal and ethical considerations and counseling at-risk and exceptional children. Prerequisite: MHS 5400.

SDS 6700 Organization and Administration of School Counseling (3). Components, elements and interventions of comprehensive, developmental school guidance program models. Emphasis on organization, administration, and evaluation of system, components, and services. (F,SS)

SDS 6784 School Law for Student Service Workers (3). Overview of current legal issues and problems for school counselors, psychologists and social workers, (SS)

SDS 6800 Advanced Practicum in Counseling (3), Advanced competencies in counseling and consultation. Prerequisites: Course work completion. (F.S.SS)

SDS 6820 Supervised Field Experience in Counselor Education (9). Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings. (F,S)

SDS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Special topics in relation to counseling or school psychology. (F,S,SS)

SPS 6191 Psycho-Educational Assessment 1: Intellectual (3). Competencies in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191L for School Psychology majors. No corequisite for other majors. (F)

SPS 6191L Psycho-Educational Assessment 1: Lab (2). Practical skills in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191. Lab fee required.

SPS 6192 Psycho-Educational Assessment II: Process (3). Competencies in the assessment of psychoeducational processes in children and their relationship to intellectual ability. Corequisite SPS 6192L for School Psychology majors. No corequisite for other majors. Prerequisite: SPS 6191.

SPS 6192L Psycho-Educational Assessment II: Lab (2). Practical skills in the assessment of psycho-educational processes in children. Emphasis on assessing disorders in the visual. auditory, haptic, language, and sensory integration areas. Corequisites SPS 6191, SPS 6191L. Lab fee required. (S)

SPS 6193 Psycho-Educational Assessment III: Behavior (3). Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisite: SPS 6193L. Prerequisites: SPS 6191, SPS 6192. (SS)

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites:

SPS 6191, SPS 6192. Lab fee required.

SPS 6199 Family-School Consultation and Collaboration (3). Designed to develop essential communicative/interactive interpersonal skills, as well as collaborative problem-solving skills, in special education, counseling, and school psychology graduate students. Corequisite: Graduate standing. (AR)

SPS 6678 Supervised Field Experience in School Psychology (1-10). Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings. (F.S)

SPS 6805 Professional Problems in School Psychology (3). Competencies in regard to the development, role and function of school psychologists. General orientation and legal and ethical issues included. (F)

SPS 6930 Academic and Behavioral Interventions in the Schools (3). An introduction to effective academic and behavioral school-based interventions including a functional assessment of behavior. (SS)

SSE 5381 Developing a Global Perspective (3). Theory, content, and practice. Introduction and utilization of learning materials and teaching strategies in Global Education for K-

SSE 5908 Directed Study in Social Studies Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F.S.SS)

SSE 5929 Workshop in Elementary Social Studies Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching social studies. Permission of the instructor required. (AR)

SSE 5945 Supervised Teaching: Social Studies Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

SSE 6305 Instruction in Early Childhood Social Studies (3). Required in

masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (AR)

SSE 6355 Instruction in Elementary Social Studies (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary education. (AR)

SSE 6394 Social Studies in Other Nations (3). The course will examine the concept of social studies as a subject area in elementary and secondary schools found in both developed and developing nations. Comparisons and contrasts will be made. Prerequisites: SSE 6633, SSE 6939. (AR)

SSE 6633 Teaching Social Studies in the Secondary School (3). Analysis of methods, programs, and material for teaching social studies in the middle and senior high school, and development of teaching skills. (S,SS)

SSE 6795 Seminar: Research in Social Studies Education (3). The course will examine research in social studies education. The course will serve as a lab for developing a dissertation research design. Prerequisite: EDF 5481. Corequisites: EDF 6486, EDF 6403 or EDF 6475. (AR)

SSE 6924 Workshop in Content, Method, and Materials of Teaching Social Studies (1-3). Focus on content, methods, and materials needed for teaching social studies in the elementary school, K-6. (AR)

SSE 6925-28 Workshop in Social Studies Education (1-3). Production and application of materials and techniques in social studies education in a laboratory or field setting. (AR)

SSE 6939 Seminar in Social Studies Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor, (S)

SSE 7938 Doctoral Seminar in Social Studies Education (3). Advanced doctoral study in current theories and research related to social studies education. Prerequisites: SSE 6939. EDF 6486. (AR)

TSL 5142 Curriculum Development in English as a Second Language (3). Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult), (F.S)

TSL 5245 Developing ESOL Language and Literacy (3). This course examines how linguistic theories are applied in the classroom for the development of language and literacy in language minority students. (F,S)

TSL 5361C TESOL for Secondary Teachers Initial teacher (3). preparation course including analysis, application and adaptation of ESOL methods to enhance instruction for linguistically and culturally diverse students. Fulfills META requirements.

TSL 5371 Special Methods of TESOL (3). Investigation of modern techniques for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to speakers of other languages. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S)

TSL 5372C TESOL Issues and Methodologies I (3). Initial teacher preparation course which introduces issues, principles, and practices for teaching English to non-English speakers. Fulfills META requirements.

TSL 5373C TESOL Issues and Methodologies II (3). Initial teacher preparation course which provides understanding, skills and dispositions needed to select, evaluate, and apply TESOL strategies in classrooms with non-English speakers. Fulfills META requirements. Prerequisites: TSL 5372C.

TSL 5938 Principles of ESOL Testing (3). Advanced study and research on current issues in the field of ESOL testing. Topics include principles and practices of ESOL testing for classroom use, communicative language test development, criteria for evaluating testing instruments, and study of standardized ESOL tests. Prerequisites: TSL 5371 or TSL 4340. (S)

TSL 6350 Troublesome English: Grammar for ESOL Teachers (3). Course is designed to enhance ESOL teachers' ability to understand and explain the operation of American English grammar using an inductive approach of exploration and discovery. (AR)

TSL 6375C Teaching **ESOL** Pronunciation and Accent Reduction (3). A course in the TESOL Master's program investigating the theories and methods of teaching pronunciation skills to ESOL students. Prerequisite: LIN 3010.

TSL 6376C Reading and Writing Strategies for ESOL Students (3). A Master's level course in the TESOL Master's program investigating theories and methods of teaching literacy skills, namely reading and writing, to ESOL students.

TSL 6908 Field Component (3). Provides opportunity to carry out a variety of projects designed to develop critical reflection about teaching beliefs and practices in an ESOL classroom environment. Prerequisites: Admission to MS/TESOL program and completion of required course work. (F,S)

College of Education

Dean Associate Dean

Affairs Mohammed K. Farouk

Associate Dean Research and Grants

Mark Shermis

Linda P. Blanton

Associate Dean Administration

Robert M. Wolff

Assistant Dean
Budget and Grants

Administration Carmen Mendez
Chairpersons

Curriculum and

Instruction Gail P. Gregg

Educational Leadership and Policy Studies Mi

Michael Parsons

Educational and Psychological

Studies Adriana McEachern

Health, Physical Education, and Recreation

Robert M. Wolff

Lynn Ilon

Coordinators/Directors

Coordinator of Doctoral

Programs Frank DiVesta

Director of Internship and
Student Teaching Karyl Boynton
Associate Director of

Associate Dir Student

Services Marta Vazquez-Syms

Director, Office of

Technology Frank Hammons
Director, Institute of

International

Education

Director, Labor Center

and Research Dawn Addy

Faculty

Alacaci, Cengiz, Ph.D. (University of Pittsburgh), Assistant Professor, Mathematics Education, Curriculum and Instruction

Alvarez, Carlos, M., Ph.D.

(University of Florida), Associate Professor, International, Intercultural Development Education, Educational Leadership and Policy Studies

Banya, Kingsley, Ph.D. (University of Toronto), Professor, Curriculum Studies and Comparative International Education, Curriculum and Instruction

Barbetta, Patricia, Ph.D. (Ohio State University), Associate Professor, Special Education for the Emotionally Handicapped, Educational and Psychological Studies Bilbao, Maria A., Ed.D. (Florida International University), Instructor, Curriculum and Instruction Assistant Dean, Student, School, and Community Services

Bicard, David, Ph.D. (Ohio State University) Assistant Professor, Special Education

Bleiker, Charles, Ph.D. (Stanford University), Associate Professor, Early Childhood Education, Curriculum and Instruction

Bliss, Leonard, Ph.D., (Syracuse University), Professor, Statistics and Research Design Educational and Psychological Studies

Blitzer, Laura, Ph.D. (University of Georgia), Associate Professor, Physical Education Health, Physical Education, and Recreation

Boynton, Karyl, M.A. (University of North Florida), Director of Internship and Student Teaching

Blanton, Linda P., Ed.D (Indiana University), Professor and Dean, Special Education Educational and Psychological Studies

Blucker, Judith A., Ph.D. (Florida State University), Professor, Health Physical Education and Recreation and Vice Provost, Budget

Campbell, Richard, Ed.D. (Indiana University), Professor, Science Education, Curriculum and Instruction

Carpenter, John A., Ph.D.
(University of Southern California),
Professor, Educational Foundations,
International Development
Education, Higher Education
Leadership, Educational
Leadership and Policy Studies

Chang, David Y., M.F.A., MS (Florida International University), Professor, Art Education, Curriculum and Instruction

Cheyney, Wendy, Ed.D. (University of Miami), Professor, Special Education for Learning Disabilities, Educational and Psychological Studies

Cistone, Peter J., Ph.D.

(Pennsylvania State University), Professor, Educational Leadership, Educational Leadership and Policy Studies

Cleary, Michelle (Temple University)
Assistant Professor, Sports
Medicine, Athletic Training Health,
Physical Education and Recreation

Cohen, Judy, Ed.D. (Florida International University), Special Education Field Placement Specialis, Educational and Psychological Studies

Cramer, Elizabeth D., Ph.D.

(University of Miami), Assistant Professor, Special Education and Reading, Educational and Psychological Studies

DeFrancesco, Charmaine, Ph.D. (Florida State University), Associate Professor, Movement Science, Sport Psychology, Health, Physical Education, and Recreation

Del Valle, Patricia (University of Miami) Assistant Professor, School Psychology and Counseling, Educational and Psychological Studies

DiVesta, Frank, Ph.D. (Cornell University), Coordinator of Doctoral Programs

Divita, Charles, Jr., Ph.D. (Florida State University), Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies

Dottin, Erskine S., Ph.D. (Miami University, Oxford, OH), Professor, Educational Foundations, Educational Leadershipand Policy Studies

Dustin, Daniel L., Ph.D. (University of Minnesota), Professor, Parks and Recreation Management, Health, Physical Education, and Recreation.

Dubrow, Greg A. (University of Pennsylvannia) Assistant Professor, Higher Education, Educational Leadership and Policy Studies

Dwyer, Eric, Ph.D. (University of Texas), Assistant Professor, TESOL, Modern Language Education, Curriculum and Instruction

Escotet, Miguel Angel A., Ph.D. (University of Nebraska), Professor, Educational Foundations, International and Intercultural Development Education, Educational Leadership and Policy Studies

Fain, Stephen M., Ed.D. (Teachers College, Columbia University), Professor, Curriculum and Instruction, Educational Leadership and Policy Studies

Farouk, Mohammed K., Ed.D. (West Virginia University), Associate Professor, Social Studies/Global Education, Associate Dean for Academic Affairs

Farrell, Robert V., Ph.D. (Teachers College, Columbia University), Associate Professor, Social Foundations of Education, International Development of

- Education, Educational Leadership and Policy Studies
- Fine, Joyce, Ed.D. (Florida International University), Associate Professor, Reading and Language Arts Education, Curriculum and Instruction
- Gallagher, Jo D., Ph.D. (Florida State University), Associate Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies
- Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor, Educational Research, Educational Leadership and Policy Studies, and Executive Vice President, Business and Finance
- Garcia, Delia C., Ed.D. (Florida International Univeristy), Assistant Professor, Urban Education Educational Leadership and Policy Studies
- Gavilan, Marisal, Ed.D. (University of Tennessee), Associate Professor, Educational Psychology and Bilingual Education/TESOL, Educational and Psychological Studies
- Greenberg, Barry, Ph.D. (New York University), Professor, Educational Research and Community College Teaching, Educational and Psychological Studies
- Gregg, Gall, Ph.D., (Florida State University), Associate Professor, English Education, Chairperson, Curriculum and Instruction
- Hammons, Frank T., Ed.D. (Virginia Polytechnic Institute and State University), Associate Professor, Vocational Industrial Education, Educational Leadership and Policy Studies
- Hibbler, Dan, Ph.D. (University of Illinois), Assistant Professor, Parks and Recreation, Health, Physical Education and Recreation
- Hon, Lynn (Florida State University) Assistant Professor, International Development Education Foundation Educational Leadership and Policy Studies
- Jiang, Zhonghong, Ph.D. (University of Georgia), Associate Professor, Mathematics Education and Computer Education, Curriculum and Instruction
- Kenny, Maureen, Ph.D. (Nova-Southeastern University), Assisant Professor, Mental Health Counseling, Educational Psychology and Special Education.

- Kossack, Sharon Wall, Ph.D. (University of Georgia), Professor, Reading and Language Arts Education, Curriculum and Instruction
- Krauss, Lisbeth Dixon, Ph.D. (University of Florida), Associate Professor, Literacy Education, Curriculum and Instruction
- Landorf, Hilary, Ph.D. (New York University), Assistant Professor, Humanities and Social Sciences, Curriculum and Instruction
- Lazarus, Philip J., Ph.D. (University of Florida), Associate Professor, Educational and Psychological Studies
- Lopez, Richard, Ed.D. (Florida Atlantic University), Associate Professor, Exercise Physiology, Health, Physical Education, and Recreation
- Lucky, Luretha, Ed.D. (Arizona State University), Associate Professor, Special Education for Mental Retardation, Educational Leadership and Policy Studies
- Marshall, Nancy, Ph.D. (Cornell University), Associate Professor, Reading and Language Arts Education, Elementary Education, Curriculum and Instruction
- Martinez-Perez, Luis A., Ph.D. (Florida State University), Associate Professor, Science Education, Curriculum and Instruction
- McClintock, C. Edwin, Ph.D. (University of Georgia), Professor, Mathematics Education and Computer Education, Curriculum and Instruction
- McEachern, Adriana, Ph.D.
 (University of Florida), Associate
 Professor, Counselor Education and
 Educational Psychology,
 Chairperson, Educational and
 Psychological Studies
- Mendez, Carmen, MPA (Florida International University), Instructor Assistant Dean for Budget and Administration
- Mendoza, Alicia, Ed.D. (University of Miami), Associate Professor, Elementary Education, Curriculum and Instruction
- Miller, Lynne D., Ph.D. (University of Arizona), Associate Professor Literacy Education, Curriculum and Instruction
- Mohamed, Dominic A., Ph.D. (University of Minnesota), Associate Professor, Vocational Administration and Supervision and Vocational Education, Curriculum

- and Instruction
- Moseley, Bryan, Ph.D. (University of California at Santa Barbara), Assistant Professor, Educational Psychology
- Normore, Anthony H., Ph.D. (University of Toronto), Assistant Professor, Educational Administration, Educational Leadership and Policy Studies
- O'Brien, George E., Ph.D. (University of Iowa), Associate Professor, Science Education, Curriculum and Instruction
- Parsons, Michael (Indiana University) Associate Professor, Higher Education, Chairperson, Educational Leadership and Policy Studies
- Pelaez-Nogueras, Martha, Ph.D. (Florida International University), Associate Professor, Educational Psychology, Educational Psychology and Special Education.
- Perez-Prado, Aixa, Ph.D. (Florida State University), Assistant Professor, Teaching English as a Second Language, Curriculum and Instruction
- Ramos, Francisco, Ph.D. (University of Southern California), Assistant Professor, Teaching English as Second Language, Curriculum and Instruction
- Ritzi, William M., M.S. (Florida International University), Instructor, Art Education, Curriculum and Instruction
- Rocco, Tonette, (Ohio State University), Assistant Professor, Adult Education and Human Resource Development Educational Leadership and Policy Studies
- Rosenberg, Howard, Ed.D. (Teachers College, Columbia University), Associate Professor, Special Education for Mental Retardation, Educational Psychology and Special Education
- Ryan, Colleen A., Ph.D. (Ohio State University), Associate Professor, Educational Psychology, Educational and Psychological Studies
- Sandiford, Janice R., Ph.D. (Ohio State University), Associate Professor, Higher Education, Health Occupations Education, Higher Education, Educational Leadership and Policy Studies.
- Sandler, David, M.S. Ed. (Florida International University),

- Instructor, Exercise Physiology, Health, Physical Education, and Recreation
- Shermis, Mark, Ph.D. (University of Michigan) Professor, Educational Research Methodology, Educational and Psychological Studies Associate Dean Research and Grants
- Slater, Judith J., Ed.D. (University of Florida), Associate Professor, Curriculum and Instruction, Educational Leadership and Policy Studies
- Smith, Douglas H., Ph.D. (Ohio State University), Professor, Adult Education and Human Resource Development, Educational Leadership and Policy Studies
- Spears-Bunton, Linda, Ed.D. (University of Kentucky), Associate Professor, English Education, Curriculum and Instruction
- Taskakkori, Abbas, (University of North Carolina, Chapel Hill), Professor, Educational Research Educational and Psychological Studies
- Thirunarayanan, M.O., Ph.D.,
 (Arizona State University), Associate
 Professor, Learning Technologies,
 Curriculum and Instruction
- Toomer, Jethro, Ph.D. (Temple University), Professor, Educational Psychology and Community Mental Health Counseling, Educational and Psychological Studies
- Trigoboff, Debra, M.S. Ed. (Northwest Missouri State University), Instructor, Sports Medicine, Health Physical Education, and Recreation.
- Vos, Robert. Ed.D. (Rutgers University), Associate Professor, Learning Technologies, Subject Specializations
- Wolff, Robert M., Ph.D. (Ohio State University), Associate Professor, Parks and Recreation, and Sport Management, and Chairperson, Health, Physical Education and Recreation
- Woods, S. Lee, Ed.D. (Rutgers University) Associate Professor, Educational Foundations and General Instructional Strategies, Curriculum and Instruction
- Yongue, Bill Ed.D. (West Virginia University), Associate Professor, Elementary Physical Education, Health Education and Recreation

College of Engineering

College of Engineering

Vish Prasad, Dean
Norman Munroe, Acting Associate
Dean

Gustavo Roig, Associate Dean
L. David Shen, Associate Dean

The College of Engineering is committed to educate professionals who can serve industry and the community at large in a wide variety of fields, as well as conduct innovative basic and applied research that meets the technical needs of industry and government, improves the quality of life, and contributes to the economic viability of Florida, the Nation, and the world

The College of Engineering consits of five academic departments: Civil and Environmental Engineering, Construction Management, Electrical and Computer Engineering, Industrial and Systems Engineering, and Mechanical and Materials Engineering. These academic departments offer programs leading to the Master of Science and Doctor of Philosophy degrees.

The College has two institutes and six centers supporting its academic and research programs. The institutes are the Biomedical Engineering Institute (BEI) and the Telecommunications and Information Technology Institute (IT2). The centers are the Cardio-vascular Engineering Center (CVEC), Center for Advanced Technology and Education (CATE), Center for Diversity in Engineering (CDE), Future Aerospace Center Science and Technology Lehman Center (FAST), Transportation Research (LCTR), and the Manufacturing Research Center.

The programs of the College are directed towards the practical use of scientific, engineering, and technical principles to meet the objectives of industry, business, government and the public.

The College provides each student with the opportunity to develop a high level of technical skills and to obtain an education, which will prepare him or her for a rewarding career and personal growth.

Underlying the programs of the College is a recognition that the growing impact of technology upon the quality of life is increasing and that the proper application of technology is critical to meeting current and

emerging human needs. The College faculty is actively engaged with business, industry and government. Faculty members also participate in a variety of basic and applied research projects in areas such as energy, transportation, solid waste disposal, biomedical devices and instrumentation, computer engineering, artificial intelligence, manufacturing, robotics telecommunications, micro-electronics, structural systems, biotechnology, systems modeling, information technology, environmental sciences and processing engineering. image engineering education, etc.

Doctor of Philosophy

The College offers Doctor of Philosophy degrees in Civil, Electrical and Mechanical Engineering.

Areas of study in Civil Engineering areas include:

- Transportation
- Environmental
- Structural
- Geotechnical
- Construction
- Environmental

Areas of study in Electrical Engineering include:

- Biomedical
- Micro-Electronics
- Communications
- · Computer Engineering
- Systems and Controls
- Electromagnetics
- Power Systems
- Fower Systems
- Telecommunications
- Digital Signal and Image Processing

Areas of study in Mechanical Engineering include:

- Thermo/Fluids
- Biomedical
- Mechanics Materials
- CAD/CAM
- Manufacturing

Programs

** Doctoral degree programs in Industrial and Systems Engineering and Biomedical Engineering are expected to start soon. Please refer to our website for more information:

website for more informati http://www.eng.fiu.edu. Master of Science Degree

The College offers Master of Science degrees in:

Biomedical Engineering

- Civil Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- Industrial Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Technology Management
- Telecommunication and Networking

Corporate and Global Programs

In partnership with national and international corporations and universities and the Division of College of Continuing and Professional Studies, the College of Engineering offers several of its graduate programs off-campus. These programs are offered at the partner's site.

Current partners in these Corporate and Global Programs include Cordis Corporation (Miami, Florida), the Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) Campus Chihuahua (México), and the Universidad Sergio Arboleda (Santa Fé de Bogotá, Columbia). Other partnerships are being established in Chile, Dominican Republic, India, Jamaica, and Venezuela.

Current Global Programs offered include MS in Engineering Management with specializations in Biomedical, Information Systems, and Manufacturing, MS in Computer Engineering, MS in Technology Management, and BS in Industrial and Systems Engineering.

Students enrolled in these programs are considered regular FIU students; hence, they must meet university admission requirements and are given full access to the university's facilities.

Distance Learning Education

Florida Engineering Education Delivery Systems (FEEDS) provides graduate engineering courses to placebound professionals via CD, videotape, ITFS, and web-based asynchronous learning modules.

Research Centers and Institutes

The College of Engineering is home to innovative funded research. Research efforts span from single discipline to multidisciplinary research. Thus, the

College, through its research centers and institutes, has established collaborative and cooperative partnerships with other units in the university as well as with local industry.

The research units involved in these efforts include:

- Biomedical Engineering Institute (BEI)
- Cardiovascular Engineering Center (CVEC)
- Center for Advanced Technology and Education (CATE)
- Center for Diversity in Engineering (CDE)
- Center for the Study of Matter at Extreme Conditions (CeSMEC)
- Future Aerospace Science and Technology Center (FAST)
- Hemispheric Center for Environmental Technologies (HCET)
- Lehman Center for Transportation Research (LCTR)
- Manufacturing Research Center (MRC)
- Telecommunications and Information Technology Institute (IT2).

Academic Support Services

The area of academic support services is responsible for the coordination of academic advising and student service activities for the College of Engineering. This area is also responsible for keeping students informed on educational opportunities such as scholarships, tuition waivers, and campus resources. It also serves as a liaison between the academic departments and the student support services university wide and facilitates the registration process in order to make sure that the students adhere to the College guidelines.

Admission Requirements

Prospective students seeking a graduate degree in the College must satisfy all university admission requirements as well as the specific program requirements. Each department evaluates candidates for admission to its programs. Prospective students should refer to the appropriate section of the catalog for specific admission requirements and for contact information of the Graduate Programs Directors.

Admitted Student Procedures

A student who has been accepted to a degree program in the College must meet with the Department's Graduate Program Director prior to the first class enrollment.

Enrolled students must choose an advisor during their first semester in the program.

Continued contact (at least once per semester) with the advisor is required to review progress and select courses for each succeeding semester.

Courses taken without the required prerequisites and co-requisites, or without the consent of the advisor, will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Scientific Laboratory Fees are assessed for certain courses where laboratory classes are part of the curriculum. Specific information on scientific laboratory fees may be obtained from the University Financial Services.

Fellowships, Assistantships, and Scholarships

The College of Engineering offers a variety of fellowships, assistantships, and scholarships to qualified students. These awards are highly competitive; hence, prospective students are urged to apply and submit all required records and scores as early as possible so they can be considered for these awards.

The amounts of these awards vary depending on the type of the award, but they may provide full tuition and a monthly stipend.

Policies, Requirements, and Regulations

The University, the Graduate School, and the College of Engineering have a set of guidelines to protect the student's rights and to ensure a timely graduation. Students must become familiar with all university, Graduate School, and College's graduate procedures. These procedures are described in the University's Student Handbook.

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

Florida International University and the College adhere to 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 nationality. Additionally, the University is committed to the principle of taking positive steps necessary to achieve the equalization of educational and employment opportunities.

College of Engineering Dismissal Policy

A student who has been dismissed from the University for the first time may see the Graduate Program Director to begin the appeal procedure, the Director will determine if the student is eligible to appeal the dismissal or if there is a way to lift the dismissal. If the student is eligible, he or she must make an appointment to see the chairperson or associate chairperson. The student must bring a letter stating when he or she was dismissed the first time and what he or she is going to do to ensure that he or she is not dismissed a second time. If the chairperson determines that the student is worthy of reinstatement. he or she will prepare and sign a memo for the Dean's consideration stating the conditions for the student to be reinstated (the student will be readmitted on academic, probation). If the student does not meet these conditions, he or she will be dismissed a second and final time from the program. The student must also sign an agreement stating that he or she understands that the department will not allow a second reinstatement if the student is dismissed again.

Any student who is dismissed a second time from FIU will not be readmitted under any circumstances. Only a first dismissal appeal is considered in the College of Engineering, a second dismissal appeal will not be accepted.

Department-Specific Information

For addditional information refer to your selected department in this catalog, or call the graduate program director of each department.

Biomedical: (305) 348-6950

Dr. Richard Schoephoerster Civil and Environmental:

(305) 348-3055

Dr. Irtishad Ahmad Dr. Walter Tang

Dr. Walter rang

Construction Management: (305) 348-3172

Dr. Syed Ahmed

Electrical and Computer:

(305) 348-2807

Dr. Jean Andrian Industrial and Systems:

(305) 348-3491

Dr. Shih-Ming Lee Dr. Marc Resnick

Mechanical and Materials:

(305) 348-2569

Dr. Cesar Levy

Telecommunications: (305) 348-3987 Dr. Nikki Pissinou

Important Contact Information

http://www.eng.fiu.cdu Website: (305) 348-2363 Admissions: College of Engineering-

Graduate Admissions (305) 348-3526

(305) 348-2973 Campus Resources (305) 348-1281 Career Services Financial Aid (305) 348-2489 (305) 348-2455 Graduate School

International Student Services (305) 348-1913

(305) 348-2320 Registrar's Office (305) 348-2713 Scholarships (305) 348-2713

Tuition Waivers

Research and Development Centers

Advanced Materials Engineering Research Institute (AMERI)

W. Kinzy Jones, Professor, Mechanical and Materials Engineering, Director

and Advanced Materials The Research Institute Engineering provides an open access equipment infrastructure to support materials research and engineering over a broad range of technology and capabilities. The Institute provides analytical instrumentation, materials characterization, and process development laboratories to support faculty and industry in the development and characterization of new materials over the continuum from the nanoscale to bulk materials.

Instrumentation The analytical Laboratory contains a field emission microscope electron scanning (FESEM), a 200 kev Transmission Electron Microscope (TEM), Atomic Force Microscope (AFM), X-ray diffraction, thermal (DSC, TGA, DMA, dilatometer flush diffusion. mechanical testing (uniaxial/biaxial Instron, creep). Process Development laboratories for ceramic processing (sol-gel, tape casting, milling), polymer processing, metal processing, and arc melting, thermal processing (air, controlled hydrogen. vacuum. atmosphere furnaces) are available to support faculty and student researchers.

The Institute contains the Center for Nanofabrication and Devices, which is supported by a class 100 clean room capabilities nanofabrication including e-beam lithography and optical photolithography. Fabrication electromechanical nano/micro can he (N/MENS) systems accomplished by a combination of nanolithography, reactive ion etching, and thin film deposition by a variety of techniques (e-beam, stuttering, filament evaporation, cvd).

In addition to supporting research within the graduate program in within the materials science Department of Mechanical and Materials Engineering, the Institute supports faculty across all departments (physics, chemistry, geology, biology) in materials based research.

Research and Support Staff W. Kinzy Jones, Professor, Mechanical and Materials

Engineering, Director

Arvind Agarwal, Assistant Professor, Mechanical and Materials Engineering

Wonhong Choi, Associate Professor, Mechanical and Materials Engineering

Eric Crumpler, Assistant Professor, Biomedical Engineering

Dennis Fan. Assistant Professor. Mechanical and Materials Engineering

Sakhrat Khizroev, Associate Professor, Electrical and Computer Engineering

Norman Munroe, Associate Professor, Mechanical and Materials Engineering

Yuri Vlassov, Assistant Professor, Electrical and Computer Engineering

Kuang-Hsi Wu, Professor, Mechanical and Materials Engineering

Margaret Chadwick, Research Faculty, Mechanical and Materials Engineering

Yanqing Llu, Research Engineer Carolyn Henderson, Program Assistant

Applied Research in Industrial and Systems Engineering (ARISE)

Martha Centeno, Associate Professor, Industrial and Systems Engineering Department, Director

The ARISE Center provides a state-ofthe art environment where industrial engineering students, and students from related disciplines, engage in the design modeling of operational, organizational, and logistics processes for the service and manufacturing industries.

ARISE is involved in the research leading to the formulation and computational mathematical models needed in the design and deployment of effective and efficient systems.

Students also work on projects for local industry, enabling the transfer of technology and providing a feedback channel from industry to academia.

The creative and research work of ARISE associates have contributed to a better understanding of the operational issues in health care systems, intelligent modeling of traffic systems, improved techniques for discrete simulation, integration of information systems and wireless technologies in space shuttle processing, logistics, space shuttle launch operations, and the integration of mathematical models and simulation.

Cardiovascular **Engineering Center** (CVEC)

James E. Moore, Jr., Ph.D. Associate Professor, Biomedical Engineering, Director

Juan Franquiz, Ph.D. Assistant Professor

Anthony J. McGoron, Ph.D. Assistant Professor

Richard T. Schoephoerster, Ph.D. Professor

Ofer Amit, Research Coordinator James D. Byrne, Research Faculty

Cardiovascular Engineering Center (CVEC) unifies the efforts of the academic, industrial and clinical sectors in advancing cardiovascular engineering science and technology. It is specifically planned with and designed to support the biomedical industry in South Florida and the \$3.1 trillion world market for cardiovascular devices and instrumentation. In addition to its research efforts and collaboration with industry and clinical partners, CVEC serves as the research arm of the Biomedical Engineering Institute (BMEI)—an interdisciplinary unit within the College of Engineering that supports the Biomedical Engineering program and the subsequent research activity.

The Cardiovascular Engineering Center aims to accelerate the transfer of research to practical applications. It concentrates on design, development and enhanced implementation of diagnostic, interventional, therapeutic and replacement systems and devices associated with the cardiovascular and blood systems. Faculty from the College of Engineering, the College of Health Sciences, and the Department of Biological Sciences collaborate on research efforts in the Center. Scientists, physicians, and biomedical engineers from industry join FIU faculty in research projects.

The Cardiovascular Engineering Center has the distinct role of educating biomedical engineering professionals and preparing a workforce for the biomedical industry by contributing research opportunities for the students in the academic program. At CVEC students have the opportunity to participate in research assignments within a multidisciplinary environment with faculty, industry engineers, scientists, and clinicians.

The Cardiovascular Engineering Center supports applied research interests of industry and clinical sectors and operates in an industry environment. The students enrolled in the biomedical engineering program are exposed to this environment and are better equipped to succeed as professionals.

The CVEC conducts research in biofluid and biosolid mechanics; experimental, mathematical and computational modeling; biomaterials; artificial heart valves; vascular grafts; stents; cardiovascular devices and instrumentation; bioimaging, signal processing and diagnostic imaging.

The Center for Advanced Technology and Education (CATE)

The vision of the NSF-CATE center at FIU is to foster a cross-disciplinary research and educational program as a catalyst for our undergraduates and graduates alike to train and develop their creative thinking by bringing in

synergy the fields of applied information (signal and image) processing, human/brain-computer interfaces, and neuroscience. The CATE center focuses on the development of new methodologies and scientific discovery that (1) will develop new algorithms in signal and image processing to enhance analysis and interpretation of signals and images in real-world applications; (2) will meet the impending needs in neuroscience as we elicit both the functional mapping of the brain, and the causality of key brain disorders; and (3) will design Human-Computer Interface (HCI) prototypes that address effectively the issue of Universal Accessibility, focusing on visual impairment and motor disability. Experimental results, as observed through clinical means or through system design evaluations and feasibility studies serve as means to redefine or re-evaluate our theoretical premises. The strong collaboration we have secured with our industry partners entails student internships, clinical rotations, joint faculty appointments, shared use of modern equipment and infrastructure, all serving in an integrated environment apt to secure the success of our students' educational and research careers all the way to the Ph.D. level.

Research Areas

- Image and Signal Processing and Computer Vision
- Real-Time Assistive Systems and Human-Computer Interfaces
- Neuroscience: EEG Brain Research - Functional Brain Mapping and Neurorehabilitation
- Biomedical Applications in Flow Cytometry and Confocal Microscopy
- Robotics for Motion Planning and Automated Guidance
- Parallel and Distributed
 Processing

Sponsors

- National Science Foundation (NSF)
- Office of Naval Research (ONR)
- Miami Children's Hospital
- Beckman-Coulter Inc.

Research and Support Staff Malek Adjouadi, Director Melvin Ayala, Laboratory Manager Eduardo Caballero, CATE Center Michael Valdes, CATE Center Amado Gonzalez, WEB Design Lab Oscar Silveira, Interactive Design Lab Sheldon Silveira, Computer Networking

Faculty

Malek Adjouadi, Associate Professor and Director of the NSF-Center for Advanced Technology and Education, Department of Electrical and Computer Engineering

Armando Barreto, Associate Professor and Director of the Digital Signal Processing Laboratory, Department of Electrical and Computer Engineering

Ana Pasztor, Professor, School of Computer Science

Mark Weiss, Professor, School of Computer Science

Gustavo Roig, Director, Center for Diversity in Engineering

Bob Coatie, Director of FIU Office of Multicultural Services, (Former Office of Minority Serives)

Faculty Research Associates: Melvin Ayala, Ilker Yaylali

Research Partners

Prasanna Jayakar, Director, Neuroscience Center, Miami Children's Hospital

Gualberto Cremades, Assistant Professor at Barry University

Rafael Delgado, Executive Vice President and Director of Software Systems, Intelligent Hearing Systems, Miami, Florida

Julie Jacko, Director, Laboratory for Human-Computer Interaction, Georgia Tech University

Clinical Support

Eva Capote, Registered EEG Technologist, MCH

Coordinator, Student Recruitment Stephanie Strange, College of Engineering, Assistant Director of Recruitment and Retention

Industry Partners

- The Neuroscience Center at Miami Children's Hospital
- Beckman-Coulter Inc.
- Intelligent Hearing Systems

Related Laboratories and Facilities of the CATE Infrastructure

With the NSF and ONR continued support, the CATE center has helped in establishing the following laboratories: Interactive Design Laboratory for Undergraduates. Funded by NSF-MII and Matching funds from the FIU Division of Sponsored Research and Training (DSRT) — Housed with the ECE department facilities.

Human-Computer and Brain-Computer Interface Research
 Laboratory. Funded by NSF MRI – Housed within the
 Neuroscience Center at Miami
 Children's Hospital.

Web-Design Laboratory.
 Funded jointly by ONR and
 NSF-MII – Housed within the
 Engineering Information Center
 Facility.

The Computer Training
 Laboratory – Housed in Graham
 Center with the Office of
 Multicultural Services.

Center for Diversity in Engineering

Gustavo Rolg, Associate Professor, Associate Dean, Electrical and Computer Engineering, Director

South Florida's distinction as a multicultured, multi-lingual region has long been a diverse source of talent for FIU, particularly in the College of Engineering. In response to the challenge of attracting this diverse community to science and engineering, the College of Engineering has created a special center for Diversity in Engineering.

By building sound foundations in sciences and mathematics, the Center helps to prepare young students to deal with the rigors of higher-level education. and Engineering in particular. Currently the Center has several on-going programs targeting Elementary, Middle, and High School level students. These programs are offered throughout the school year and during the summer. GEAR UP! (Gaining Early Awareness and Undergraduate Readiness for Programs), ENLACE MIAMI (Engaging Latino Communities for Education), FLAME (Florida Action Minorities in Engineering), Provecto Access/Miami PREP (Prefreshman Engineering Program), and Tele-MAESTRO (Mathematics, Arts, Engineering, Science, and Technology Reach Out) are all efforts to encourage higher-education in our community and provide opportunities to students in Miami Dade County Public Schools, from elementary to high school level.

The Center also provides job and scholarship opportunities for FIU students. FGLSAMP (Florida-Georgia Louis Stokes' Alliance for Minority Participation) and SHPE Honores (Society for Hispanic Professional

Engineers) provide many students with financial assistance. FGLSAMP and SHPE Honores scholarship recipients are assisted in acquiring internships. Many are offered Summer Research Internships at NASA Centers around the country.

The purpose of the Center is to recruit, retain, and graduate ethnically diverse student body that will increase the representation of traditionally underrepresented ethnic and gender groups in the field of engineering and will enrich the College of Engineering and the university as a whole.

Center for the Study of Matters at Extreme Conditions (CeSMEC)

Surendra Saxena, Director

The mission of CeSMEC is to study the behavior of materials at high pressures and temperatures. The range of activities includes study of the cores of planets and study of matter at extremes of industrial conditions.

CeSMEC is one of few facilities in the country where pressures are created to many million atmospheres and temperatures to several thousand degrees; the material is studied under such condition with x-ray and spectroscopic techniques.

All materials are subject to three fundamental variables – the variables of temperatures, chemical composition, and pressure. Modern science has vigorously used only the first two variables in exploring nature and creating several amenities of modern civilization. Pressure, the third fundamental variable altering all states of matter, has been for years a relatively minor esoteric sub-field.

The creating of this center is providing FIU's graduate students and faculty the opportunity to perform fundamental and applied research in high-pressure physics, high-pressure chemistry, and materials science. The center is raising the infrastructure at FIU to the level required to initiate world-class research in an emerging area of science and engineering.

Division of Corporate and Global Programs

Sushil Gupta, Professor, Industrial and Systems Engineering, Director Linda Trujillo, Coordinator

The Division of Corporate and Global Programs (D-CGP) develops,

promotes and manages academic programs offered under the rubric of Executive Engineering Education in the College of Engineering. These programs fall in the following categories:

- Global Programs
- Corporate Programs
- Certificate Programs
- Weekend Programs
- International Student Transfer Programs

GLOBAL PROGRAMS

Global programs are offered in a foreign country and focus on demonstrated education and training needs of selected industrial sector(s) in the host country. The programs are offered in collaboration with a local institution that supports the delivery of the program by providing appropriate infrastructure facilities like classrooms, library and computer laboratories.

All participants in the program proceed as a cohort through a lock-step curriculum of the selected courses. The local faculty from the host country are also involved in teaching to enrich the program by integrating the economic, cultural, social, political and legal issues of the host country in the curriculum.

CORPORATE PROGRAMS

The Corporate Programs are designed for an individual corporation leading to an academic degree, certificate or short-term executive development program. The programs are delivered on site and the program delivery is supported by providing infrastructure facilities. Corporate programs are designed to meet the specific educational and training needs of the corporate clients.

Engineering Information Center (EIC)

Hernan Bormey, Acting Director

Create a technology that will help save lives or create your own website, simulate an electronic circuit, design a bridge, or just browse the Internet. Possibilities are endless at Engineering Information Center

EIC helps faculty, scientists, researchers, and students to conduct cutting edge research and work on system designs, networking, scientific visualization, 3D Modeling, simulations, virtual reality, computer animation, and other computer and software applications.

The Center manages an array of Novell, Windows, and UNIX network servers that provide faculty, staff and students with the capacity to share valuable resources; therefore, fostering an atmosphere where collaboration and instruction grow with a synergy that is unique. Beyond the college community, EIC participates in sponsoring special outreach programs for the Miami-Dade County Public Schools by exposing young minds to latest technologies.

EIC is also home to The Graphic Simulation Laboratory with focus on Scientific Visualization, 3D Computer Modeling, and Virtual Reality, which have helped researchers to develop a wide array of technologies, strategies, and information designs. GSL has collaborated with NASA, The Center for Super Computing Applications, National Science Foundation. Computational Science Institute. Shodor Organization, Macromedia, and Kellogg Foundation, just to mention a few. From hardware to software support to 3D modeling of a heart valve, EIC delivers exceptional services with a personal touch.

FEEDS External Programs

Mercy Rueda, Director, Academic Support Services

Engineering Education Delivery System is a statewide system whereby graduate and undergraduate level engineering courses are delivered to industrial sites and cooperating centers via distance learning. Students with work and family responsibilities are offered the flexibility to take courses around their busy schedules. Courses are delivered through one or more of the following four methods: CD-Rom (traditional FEEDS program); ITFS (live interactive TV that is oneway video and two-way audio); videoconferencing (live interactive TV that is two-way video and two-way audio): and web-based asynchronous networks.

Currently, students can select the necessary courses from FIU via distance learning to obtain a Master's degree in Electrical Enrineering, Computer Engineering, Civil Engineering, Environmental Engineering, Construction Management and Engineering Management.

A student taking a course through FEEDS must meet the same requirements as the student on campus and will earn the same credit as if he/she were to attend classes on campus. A student need not be enrolled in a graduate or undergraduate degree program in order to take a course. However, a student who intends to seek admission to a program should be aware that no more than six (6) graduate or fifteen (15) undergraduate credits are allowed to be transferred into a program.

Future Aerospace Science and Technology Center for Space Cryoelectronics (FAST)

Grover Larkins, Associate Professor, Electrical and Computer Engineering Department, and Director

FAST-SC is one of six centers created by the Air Force as part of its minority university enhancement program, providing research experience opportunities for undergraduate and graduate students.

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

Current research is focused on issues relating to: Superconducting Micro-Electro-Mechanically switched filters and phase shifters.

Lehman Center for Transportation Research (LCTR)

L. David Shen, Professor, Civil and Environmental Engineering and Director

Fang Zhao, Associate Professor, Civil and Environmental Engineering and Associate Director

Sylvan C. Jolibois, Jr., Associate Professor, Civil and Environmental Engineering, and Associate Director Albert Gan, Assistant Professor, Civil and Environmental Engineering and Assistant Director

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

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

Manufacturing Research Center (MRC)

Chin-Sheng Chen, Professor, Industrial Engineering, and Director Mario Sanchez, Senior Engineer and Manager

The objective of the Manufacturing Research Center (MRC) is to prepare manufacturing engineers for an era where enterprises will be mostly information-based and international in nature. Its resources and equipment are available to any company in need of knowledge and/or expertise in its speciality areas, primarily rapid product design/development and manııfacturing. It is divided into major labs and built to provide a seamless integration of computerized engineering tools for design (CAD), manufacturing (CAM), inspection and rapid prototyping (RP) for mechanical and electronic product design and fabrication.

Its two main laboratories include the Rapid Product Realization Laboratory, consisting of a design front end, an RP center for mechanical/electrical com-

ponents, and computer manufacturing and inspection systems. The design center allows design intent to be modeled via Pro/Engineer and analyzed with finite element packages. Its RP facility includes three different techniques: stereolithography, fused deposition modeling and laminated object manufacturing. Mechanical parts are fabricated with a Vertical Machining Center, a CNC turning center, an EDM machine and a traveling wire EDM. Production capabilities are enhanced by an injection molding machine. coordinate measuring machine provides dimensional analysis, verification and reverse engineering capabilities. The Process Characterization Laboratory includes process development furnaces, electron microscopes, X-ray diffractometers, thermal analysis, mechanical testing, and sample preparation and inspection capabilities.

The MRC regularly schedules training courses in Pro/Engineer and other industry-specific software at substantial discounts. Course instructors typically come from industry, bringing real-life hands-on experiences to the class. Companies served by the MRC range from entrepreneurial to well-established, and include aerospace, automotive, marine, medical and consumer product manufacturers. For more information, call the MRC at (305) 348-6557, Dr. Chin-Sheng Chen (chenc@fiu.edu), Mario Sanchez (sanchem@fiu.edu), or refer to our website at www.eng.fiu.edu/MRC.

Telecommunications and Information Technology Institute

....A Partnership in Innovation, Educational Excellence, Workplace Development and Workforce Economic Growth.

Niki Pissinou, Professor, Telecommunications and Information Technology Institute, Director

Florida International University (FIU) recognizes the need to nutrure highly trained personnel for the nation's industry and business, develop research to support the rapidly expanding high-tech industry and become proactive in technology transfer. Thus, ensuring continued economic growth and prosperity in the region. In order to fully meet today's technological demands, FIU has established the

Telecommunications and Information Technology Institute (IT²). IT² promotes advanced multidisciplinary education and research focused on telecommunications and information technologies. IT²'s triission is to:

- Deliver high quality telecommunications and information technology education and training.
- Conduct and promote research to enhance Florida's role as a leader in telecommunications and information technology.
- Offer training that is needed to foster business development and workforce preparedness.
- Promote technology transfer to enhance the enabling technologies of the telecommunication and information technology industries.

 In fulfilling its mission, IT² promotes multidisciplinary collaboration and

In fulfilling its mission, IT2 promotes multidisciplinary collaboration and serves as the catalyst to promote intellectual cross-fertilization among disciplines. This effort results in the synergistic enhancement of teaching and research, so critical in the telecommunications and information technology fields, where disciplinary barriers are falling and lines are blurred. An objective of the Institute is to infuse telecommunications and information technology content into the curriculum at all appropriate levels. To fill the urgent demand of industry, the institute is developing interdisciplinary telecommunication programs that provide programs. certificate Bachelors, Masters and Ph.D. degrees.

1T2 constitutes an infrastructure that is viable for cutting edge research activities. Researchers at the institute conduct funded research and development targeted at solving complex problems conducive to the early identification of high impact opportunities. Of particular importance to the institute's research efforts is the emerging global wireless, optical and personal communications infrastructure and the ability to represent, store and access information to perform a variety of information related tasks. provide an effective forum for original research results and to foster communication among researchers, industry leaders can collaborate on education, training, and re-engineering the telecommunications workforce of the future. The alliance provides effective ways to educate the workforce of the 21st century. In accordance, the institute provides technical assistance and applied research services to

transfer acquired knowledge and technologies to the commercial sector. The 1T² team can work with industrial organizations to tap into some technological innovations that drive the industry to its strategic advantage.

For more information, contact Dr. Niki Pissinou, the director of the Telecommunications and Information Technology Institute, at (305) 348-3987 or visit our Website at www.it2.eng.fiu.edu.

Core Faculty Niki Pissinou, Professor/Director Kia Makki, Professor/Co-Director Chi Zhou, Assistant Professor Jian Wang, Assistant Professor

Affiliated Faculty Kang Yen, Chair/Professor Wannava Subbarao, Professor Tadeuz Babii, Professor Jean Andrian, Associate Professor Shih-Ming Lee, Chair/Asscociate Professor Ronald Giachetti, Ph.D. Marc Resnick, Ph.D. Chin-Sheng Chen, Ph.D. Osama Mohammed, Ph.D. Sabri Tosunoglu, Ph.D. Gordon Hopkins, Ph.D. Eric Crumpler, Ph.D. Zhonghong Tang, Ph.D. Raimund Ege, Ph.D. Shu-Ching Chen, Ph.D.

Biomedical Engineering

Richard Schoephoerster, Professor and Director

Malek Adjouadi, Associate Professor Ofer Amit, Director/Advisor Armando Barreto, Associate

Professor

James Byrne, Laboratory Instructor Eric Crumpler, Assistant Professor Juan Franquiz, Assistant Professor Anthony McGoron, Assistant Professor

James E. Moore, Jr., Associate Professor

V. Renugopalakrishnan, Professor and Wallace H. Coulter Eminent Scholars Chair in Biomedical Engineering

Ilker Yaylali, Research Assistant Professor

The mission of the Biomedical Engineering Institute is to integrate academia, clinical medicine, and the biomedical industry

- In the education and training of the next generation of biomedical engineers;
- In research and development activities activities leading to innovations in medical technology;
- In transfer of that medical technology to commercialization and clinical implementation; and
- In the continuing development of biomedical engineering as a profession, its impact on the delivery of health care, and its role in the sustainability and growth of the local and national economics.

The goal of the Biomedical Engineering Graduate Program is to provide students with an outstanding education with the following objectives:

- An ability to conduct independent research development activities in the areas of Biomedical Engineering.
- An ability to promote and disseminate knowledge based on research and development activities in Biomedical Engineering.
- An understanding of the methods and resources required to transfer biomedical engineering technology to commercialization and' clinical implementation.
- An ability to design, analyze, and optimize the performance of a medical system or device.
- An ability to research and develop methods to better understand,

- modify, or control biological systems.
- An ability to provide leadership in multi-functional project teams.
- An ability to provide vision and guidelines for biomedical systems and device development.
- An understanding of professional and ethical responsibility.
- An understanding of the impact of engineering solutions in a global and societal context.
- A recognition of the need, and an ability to engage in, life-long learning.

Master of Science in Biomedical Engineering

The Biomedical Engineering Institute at Florida International University offers Research and Professional tracks for the Master's Degree. In addition, the Institute offers accelerated combined BS/MS and certificate programs. These programs provide an interdisciplinary education intended to prepare the student for professional practice in Biomedical Engineering.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission to the graduate program.

Admission Requirements

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

- 1. A student seeking admission into the program must have a bachelor's degree in engineering, the sciences, computer science, or mathematics from an accredited institution, or in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.
- 2. An applicant must have achieved a "B" average in upper level undergraduate work and a combined score of 1000 on the Graduate Record Examination with the following minimum scores on the individual components: verbal ≥ 350, and quantitative ≥ 650.
- 3. Applicants who have not satisfied the above will be evaluated for probationary or waiver admission.
- 4. In addition to the above criteria, foreign students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

5. The GPA, GRE, and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science areas other than biomedical engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission into the graduate program requires the completion of these background courses with no grades below "C" and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

- Recommendation of the advisor and faculty of the Institute.
- 2. Certification provided by the Institute Director, College Dean, and University Graduate School that all degree requirements have been met.
- 3. Meet the undergraduate deficiencies, if any existed in the student's program, as additional courses toward the degree.
- 4. Complete the required semester hours of graduate level credit (not more than six graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
- 5. Successful defense of an acceptable graduate thesis if required of the program.
- 6. Students must maintain an overall GPA of 3.0. No grade below a "C" will be accepted in a graduate program. In the event that a student is placed on probationary status, he or she must obtain a directed program from his or her advisor and approved by the Director prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.
- Comply with all University policies and regulations.

Combined BS/MS Program

This five year program seamlessly combines a baccalaureate degree in electrical, or mechanical engineering with the Master's in biomedical engineering. The program integrates biological sciences and biomedical engineering courses within the undergraduate degree to prepare the student for the graduate program. See the Undergraduate Catalog for the full program requirements.

Professional Track

This track is tailored for the engineer currently practicing in the biomedical industry. A student shall complete 27 credit hours of course work and a 3 credit hour capstone project. The courses are organized into three core areas: Life Sciences, Engineering Management, and Biomedical Engineering. The student will choose three courses from the Engineering Management core based on personal training requirements. The biomedical engineering core includes a two course sequence in one of the three primary technical areas for industry: manufacturing, instrumentation, or materials. While the degree is structured as a nonthesis program, students will be required to conduct an industrial project (3 credit hours). The project will include contemporary topics and trends in biomedical engineering technology development and will require a formal report and presentation upon completion.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. A maximum of three credits of independent study beyond the MS project may be included in a study plan.

Professional track students are required to take an oral final examination dealing with the objectives of their study plan. The student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least two of whom have appointments in the Institute.

Course Requirements

PCB 4524	Molecular Biology	3
PCB 6025	Molecular and Cellular	
	Biology I	7

Engineering Management Core Select three of the following courses

with advisor	approval:	
STA 5676	Reliability	
	Engineering	3
EIN 5226	Total Quality	
	Management for	
	Engineers	3
EIN 5322	Engineering	
	Management	3
ACG 6026	Accounting for	
	Managers	3
MAN 6245	Organizational	

Behavior

3

MAR 6805	Marketing Management	3
D:	d	

Biomedical Engineering Core		
Biomedical E	ingineering Electives	6
BME 6xxx	Professional Master's	
	Project	3

An additional six credit hours of core courses must be taken depending on the area of interest

	•••
Design and N	/lanufacturing
EML 4584	Design of Biomedical
	Systems and Devices
Manufacturin	g Elective
Instrumenta	tion
ELR 4202C	Medical
	Instrumentation

3

3

Materials		
EMA 5584	Biomaterials	
	Science	3
Materials Elective		3

Research Track

Instrumentation Elective

The research track is a more traditional program geared to prepare the graduate for further graduate study or a career in biomedical research. A student shall complete a minimum of 24 semester credit hours of course work, a minimum of 6 semester credit hours of Master's Thesis, and one semester of the Biomedical Engineering Seminar. Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. A maximum of three credits of independent study other than the MS thesis may be included in a study plan.

All students in the research track are required to complete a thesis research project under the supervision of an advisor and committee. When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of at least three faculty members (at least two of whom have appointments in the Institute). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than ten days before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree upon the outcome pass or fail and report the

results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form bound in the final document. Hard cover bound copies of the approved thesis must be provided to the advisor, Institute, and the library.

Course Requirements

Biomedical Engineering Core

All students in the Research Track must take two courses in one specialty area. and one course in each of two other specialty areas. The current specialty areas are: 1) biomechanics. biomaterials, and medical devices: 2) bioinstrumentation and biomedical image/signal processing; 3) drug delivery/tissue engineering; 4) medical physics/nuclear medicine; and 5) bionanotechnology. BME 6970 Master's Thesis BME 6936 Biomedical Engineering Seminar

Mathematics Core STA 5206 Design of Experiments 3 STA 6176 3

Biostatistics BME 5xxx Nonlinear Systems Applications in Life Science

3

PCB 6025 Molecular and Cellular Biology I PCB 6027 Molecular and Cellular Biology II 3

Course Descriptions

Life Sceince Core

Definition of Prefixes

BME-Biomedical Engineering; EEL-Electrical Engineering; EGM-Engineering Mechanics: EMA-Engineering Materials: EML-Mechanical Engineer-

BME 5005 Applied Biomedical Engineering Principles Biomedical engineering applications to instrumentation, transport phenomena. mechanics, materials and imaging. Prerequisite: Permission of instructor.

BME 5340 Introduction Cardiovascular Engineering Quantitative cardiovascular physiology, engineering applied to cardiovascular system: mechanics, materials, transport, and design.

BME 5350 Radiological Engineering and Clinical Dosimetry (3), Quantities for describing the interaction of radiation fields with biological systems.

Absorption of radiant energy by biological systems. Applications to clinical dosimetry and radiation safety procedures. Prerequisite: Permission of the instructor.

BME 5560 Biomedical Engineering Optics (3). Introduction to physical and geometrical optics of biomedical optical devices. Design of optical microscopes, endoscopes, fiber optic delivery systems, spectrometers, fluorometers. and cytometers. Prerequisites: Calculus, Differential Equations, Chemistry, and Physics.

BME 5702 Engineering Analysis of Biological Systems (3). Quantitative description of physiological systems, from cells to organs. Includes engineering analysis relating design to function. Prerequisite: BSC 1010 or Graduate standing.

BME 5XXXL Clinical Rotation in Radiation Oncology (3). Practical calibration of radiation therapy instruments, dose calculation and planning of radiation treatment under supervision of certified medical physicist. Prerequisites: BME 5XXX Engineering Foundation of Radiation Therapy and BME 6405C Engineering Foundation of Medical Imaging Instruments

BME 6019 Clinical Research Experience (1). Students are matched with and then "shadow" a clinician during procedures (diagnostic and interventional), and research and development activitites. Prerequisite: Permission of instrcutor.

BME 6035 Drug Tansport Modeling (3). Theoretical and experimental models of drug transport systems, computer simulations of fluid and mass transport in biomedical systems. pharmacokinetics modeling molecular imaging. Prerequisite: EGM 5585 Biotransport Phenomenon.

BME 6345 Advanced Cardiovascular Engineering (3). Engineering modeling, design, and measurements related to Cardiovascular system, disease and diagnosis. Prerequisite: BME 5340 Introduction to Cardiovascular Engineering.

BME 6405C Engineering Foundation of Medical Imaging Instrument (3). Engineering basis of medical imaging systems, including radiology, X-Ray CT, SPECT, PET, MRI, and laser and ultrasound based imaging, as well as instrument quality assurance procedures. Prerequisite: Permission of the instructor.

BME 6408 Molecular Imaging (3). Production of PET and SPECT isotopes and radiopharmaceuticals. pharmacokinetics and experimental models of nuclear medicine tracer kinetics. imaging of molecular processes and function. Prerequisites: BME 6035 Drug Transport Modeling, BME 5XXX Medical Imaging Instruments.

BME 6565 Quatitative Microscopy and Visualization (3). Practical and useful projects in optical, confocal, near field, scanning probe and other advanced microscopy and cytometry. Spatial and spectral quantitation of physiologic measures in living tissue. Prerequisite: Permission of instructor. Corequisite: BME 6XXX Biomedical Engineering Optics.

BME 6715 Mathematical Modeling Physiological Systems (3). Engineering Modeling, design, and measurements related to Cardiovascular system, disease and diagnosis. Prerequisite: Permission of instructor.

BME 6723 Bioinformatics in Cytomics (3), Biomedical data archiving, analysis and visualization. Medical imaging, microscopy imaging, multiparameter cytometry sensors, protein and gene sequencing data processing are emphasized. Prerequisite: BME 5XXX.

BME 6725 Cytomic and Proteomic Measurement Techniques Principles and methods of cytomic, proteomic and genomic technology. Cellular probes, variance of protein expression. Description of the genome. Cytometry assays, protein structure, microarrays. Prerequisite: BME 5XXX.

BME 6750 Artificial Organs (3). Theoretical and experimental models of artificial organs for drug delivery, extracorporeal devices, oxygenators, models of tissue engineered organs, computer simulations of fluid and mass transport. Prerequisites: EGM 5585 Biotransport Phenomenon, EMA 5584 Biomaterials Science, BME 6035 Drug Transport Modeling.

BME 6905 Independent Studies (1-3). Individual research studies for qualified biomedical engineering graduate students. Work is to be performed under the supervision of an advisor.

BME 6910 Supervised Research (1-Graduate level biomedical engineering research carried out under the supervision of a faculty member.

BME 6936 Biomedical Engineering Seminar (1). Problems in Biomedical Engineering and results of ongoing research will be presented and discussed by invited experts. Prereqisite: Permission of the instructor.

BME 6970 Master's Thesis (1-6). Master's thesis on Biomedical Engineering is to be submitted and an oral presentation is to be made. Thesis should contain aspects of design to fulfill requirements for combined BS/MS program. Prerequisite: Advisor's permission.

BME 6XXX Cell/Tissue Engineering: Theory and Methodology (3). Overview of tissue engineering theory and practice with emphasis on cell behavior and morphology. Prerequisites: EMA 5584 Biomaterials Science, BME 3700/5702 Engineering Analysis of Biological Systems.

BME 6XXX Controlled Delivery in Biomedicine (3). Overview of methods of controlled drug delivery and their applications in biomedical engineering. Oral, pulmonary, transdermal, and polymeric delivery/devices. Prerequisites: EMA 5584 Biomaterials Science, EGM 5585 Biotransport Phenomenon.

BME 6XXXC Advanced Radiation Dosimetry (3). Stat of the art of radiation treatment planning in radiation oncology. Intensity modulated radiation treatment methods and instruments. Prerequisite: BME 5XXX Engineering Foundation of Radiation Therapy.

BME 6XXXC Radiation Safety in Biomedicine (3). Theory engineering basis of radiation safety in diagnostic and therapeutic radiology. Regulatory issues for the safe use of radiations in medicine. Prerequisite: BME 5XXX Radiological Engineering and Clinical Dosimetry.

BME 6XXXL Clinical Rotation in Diagnostic Radiology (3). Measuring of radiation fields for quality assurance of diagnostic radiology and nuclear medicine instruments under supervision of a certified medical physicist. Prerequisite: BME 6405C Engineering Foundation of Medical Imaging Instruments.

BME 7XXX Cell/Tissue Engineering:
Methods and Applications (4).
Overview of tissue engineering theory
and practice with emphasis on cell
behavior and morphology. Prerequisite: BME 6XXX Cell/Tissue
Engineering: Theory and Methodology.

EEL 5071 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network. Prerequisite: ELR 4202 or Permission of the instructor. (F)

EEL 5085 Bioradiation Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or Permission of the instructor. (S)

EEL 6075 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Perequisites: ELR 4202 and EEL 6505 or Permission of the instructor. (F)

EEL 6076 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075 or Permission of the instructor. (5)

EEL 6816 Electronic Neural Systems (3). This course bridges electronics to the understanding of neurobiologically inspired models. Biological tasks and neural computations are studied in the context of networks and processing elements. Prerequisites: Permission of Instructor.

EEL 6836 Computer Visualization of Brain Electrical Activity (3). Computer techniques for the visualization of brain electrical activity. Analysis of the origin of this activity as it relates to its measurement and visualization through computerized systems. Prerequisites: EEL 4510 or permission of instructor.

EGM 5585 Biotransport Processes (3). Transport of fluid, heat, and mass

in the human body. Application to dialyzers and heart-lung devices. Prerequisites: EML 3126L and EML 4140.

EGM 6586 Fluid Mechanics Applications in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machines, dialysis units, and heart valves will be discussed. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of biomeasurement systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging techniques, and electrical 'safety. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6588 Solid Mechanics Applications in Physiological Systems (3). Solid mechanics and numerical methods as applied to analysis of the musculoskeletal system and trauma. Design application in orthotics and prosthesis and heart valves. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6589 Advanced Biofluid Mechanics (3). Applications of fluid mechanics principles to human circulatory systems. Unsteady blood flow and wave propagation in elastic tubes. Influence of fluid dynamics on thrombosis and atherosclerosis. Prerequisite: EGM 6586.

EGM 6593 Advanced Cardiac Mechanics (3). Applications of principles of solid mechanics to the human cardiovascular system. 3-D reconstruction of the left ventricle, contractile properties and stress distribution in the myocardium. Prerequisite: EGM 6588.

Civil and Environmental Engineering

Wolfgang F. Rogge, P.E., Associate Professor and Acting Chairperson Irtishad Ahmad, P.E., Associate Professor

Hector R. Fuentes, P.E., D.E.E.,

Professor Albert Gan, Assistant Professor Nestor Gomez, P.E., Instructor Sylvan C. Jolibois, Jr., Associate

Professor Shonali Laha, P.E., Associate

Professor

Charles Nunoo, P. Eng., Instructor, Undergraduate Advisor

Luis A. Prieto-Portar, P.E., Professor L. David Sheu, P.E., T.E., Professor Walter Z. Tang, P.E., Associate Professor

Berrin Tansel, P.E., Associate

Professor
LeRoy E. Thompson, P.E., Professor
Emeritus

Ton-Lo Wang, P.E., Professor Fang Zhao, P.E., Associate Professor

Lehman Center for Transportation Research

L. David Shen, Director

The Department of Civil and Environmental Engineering offers advanced study for the degree of Master of Science and Doctor of Philosophy. The areas of specialty are Structures, Mechanics, Geotechnical, Construction, Transportation, Water Resources, and Environmental Engineering. Degrees offered include: Master of Science in Civil Engineering, Master of Science in Environmental and Urban Systems, and Doctor of Philosophy in Civil Engineering.

Master of Science in Civil Engineering

Irtishad Ahmad, Coordinator, Graduate Program Director, 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 may also find it desirable to pursue a more general program of studies combining subject material from different areas of specialization and interdisciplinary related courses.

The graduate degree is offered to prepare qualified students for the professional practice of civil engineering. The degree is available in a thesis or non-thesis program. The thesis program entails a minimum of six credits for the successful completion of the research and thesis. The non-thesis program must be supported by the successful completion of a project and a report of substantial engineering content for a minimum of three credits. A student must satis-factorily complete a minimum of 30 semester credits of acceptable graduate course work. which includes a minimum of 12 credits of graduate courses in the specialty area.

Master of Science in Environmental Engineering

Walter Z. Tang, Graduate Program Director, Environmental Engineering

A Master of Science in Environmental Engineering is available to people interested in graduate work in Environmental Engineering. program is designed to expose graduate students to a wide range of knowledge on environmental engineering and on problem solving while encouraging them to pursue individual research interests. Thus, the curriculum has a common core of courses but is flexible enough to permit an interdisciplinary approach, if so desired, and allows the student to pursue his or her career goals. A proposed program of studies will be developed by the advisory committee together with the student.

The applicant should hold a Bachelor's degree in engineering, the natural sciences, or a related field. Students who do not meet the stated criteria may be considered for admission if they complete the required prerequisites and satisfy any deficiencies. A student must satisfactorily complete a minimum of 30 semester credits of acceptable graduate courses, including either a master thesis or an engineering project.

Master of Science in Environmental and Urban Systems

Walter Z. Tang, Graduate Program Director, Environmental & Urban Systems

The Master of Environmental and Urban Systems (MEUS) is an interdisciplinary program designed for

planning professionals and graduate students in urban issues. The purpose of the MEUS degree is to provide a multi-disciplinary education to men and women interested in the practice of urban and environmental planning. Graduates of the program may eventually apply their skills in various government agencies or private enterprises within a variety of subject areas. Particular emphasis may be placed on issues related to tropical and subtropical areas. The degree requires completion of 30 graduate semester credits.

Admission Policies for all Master of Science Programs

A student seeking admission into Civil Engineering or Environmental Engineering graduate program must have a bachelor's degree in Civil Engineering. Environmental Engineering, or related engineering or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level. In the case of a student seeking admission into Environmental and Urban Systems graduate program, the bachelor's degree must be in environmental or urban systems, environmental studies, engineering, architecture, sciences, natural sciences, or a related

- 1. At least a "B" average in upper level undergraduate work, or
- 2. A bachelor's degree in engineering, science, or a related field from an accredited institution and
- 3. If applicable, a TOEFL score of 550 (paper-based) or at least 213 (computer-based).
- 4. Three letters of recommendation or the forms provided by the department.
- A statement of objective in which, in addition to other information the intended concentration must be clearly stated.

Students who meet all criteria, except for requirements 1 and 2 above, may be evaluated for admission under a waiver.

Grades earned at an institution with non-traditional grading systems will be given every consideration and applicants will be treated equally with students from institutions with traditional grading systems.

Combined BS/MS Program

Students who have completed a minimum of 90 hours towards their BS degree and have earned at least a 3.3 GPA on both overall and upper division courses may, upon recommendation from three CEE faculty members, apply to the department to enroll in the combined BS/MS program. Students enrolled in the program may count up to 9 hours of CEE graduate courses as credits for both the BS CEE electives and the MS degree. The BS/MS (3 +2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student's advisor will insure that appropriate forms are completed, and that students do not apply for BS degree graduation until both BS and MS requirements are finished. Upon the completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

Admission into the combined program does not automatically qualify the students for admission into the MS degree program. To enroll in the MS degree program, the students must apply (in their senior year) to the graduate school and meet all graduate admission requirements.

Undergraduate students enrolled in the program are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon admission into the graduate school.

For each of the graduate courses counted as credits for both BS and MS degrees, a minimum grade of B is required. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the undergraduate advisor.

Students interested in the program should consult with the undergraduate advisor on their eligibility for the program. The students should also set up an appointment with the graduate

coordinator to learn about the graduate program and available courses before completing the application form and submitting it to the undergraduate advisor. Applicants will be notified by the department on the decision of their application.

Application Procedures for Master of Science Programs

A student planning to enroll in the graduate program must complete the following:

- 1. Submit a Graduate Application for Admission to the Graduate 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. Send three letters of recommendation and statement of objectives directly to the graduate coordinator of the appropriate program.
- 4. Foreign students must submit TOEFL scores (550 minimum score).
- It should be emphasized that the admission cannot be acted upon until all of the documents and credentials have been received.

Students seeking a waiver to normal admissions standards must contact the departmental main office for filing instructions and deadlines.

Degree Requirements

To be eligible for a Master's degree a student must:

- 1. Satisfy all University requirements for a Master's degree.
- 2. Meet all undergraduate deficiencies, and requirements as specified by the students' advisory committee.
- 3. Complete 30 semester hours of acceptable graduate level courses.
- 4. Earn a minimum average of 3.0 in all approved courses in the student's program of study.
- 5. Complete an acceptable thesis or graduate project.
- 6. Pass an oral examination that includes an oral defense of the thesis or graduate project.
- 7. Master's degree students in Environmental Engineering must in addition register for one credit of the Graduate Environmental Seminar (ENV 6935) and are encouraged to participate in it each year.

Grades and Credits

No course in which a grade below a 'C' is earned may be counted toward the Master of Science in Civil Engineering or in Environmental Engineering.

Transfer Credit

The student may receive permission to transfer up to a maximum of six semester hours of graduate credit earned from another insitution or up to 12 semester hours of graduate credit earned at FIU after admitted into one of the graduate programs in the Civil and Environmental Engineering Department. Such credits are transferrable provided that: (1) the course(s) were taken at the graduate level at an accredited college or university; (2) grade(s) of 'B' or higher were earned for the courses; (3) the course(s) are judged relevant by the student's advisory committee; (4) the credits were not used toward another degree; and (5) the credit(s) were completed within six 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 six years immediately preceding the awarding of the degree.

Doctor of Philosophy in Civil Engineering

Irtishad Ahmad, Graduate Program Director

Admission Requirements

The requirements for admission to the doctoral program in civil engineering

- Applicants having a Master's degree in Civil Engineering or Environmental Engineering from a U.S. institution must satisfy the following requirements for admission to the doctoral program:
- a. GPA of at least 3.3/4.0 in the master's program
- b. GRE verbal plus quantitative of at least 1120 points
- c. Three letters of recommendation or the forms provided by the department
- d. A statement of objectives in which, in addition to other information. the intended research area must be clearly stated. (see identification of Research Area)

Credentials of all other applicants including those with foreign degrees and those with B.S. degrees in other disciplines will be examined by the Graduate Committee on a case by case basis

Non-English speaking natives should have a TOEFL score of at least 550 points, or 213 computer based exam.

In addition to the departmental requirements, all students must satisfy the University's Admission and Graduate Policies and Procedures.

Degree Requirements Maximum Length of Study

The maximum length of study should be 7 years for students admitted with a B.S. degree and 6 years for students with an M.S. degree. For those students who have not completed their studies within these limits, the length of study may be extended on a yearly basis after petition by the student and approval by the student's supervisory committee. Any extension beyond nine years must be approved by the University Graduate School.

Identification of Research Area

There are currently three main areas of research or specialization: (1) Structural and Geotechnical Engineering; (2) Environmental and Water Resources Engineering; and (3) Transportation Engineering. The student must contact the Department for a list of all faculty members, visit them, and be accepted by one professor to guide the dissertation research. If no such professor can be found, within 15 months of admission, the student will be dismissed from the Ph.D. program.

Course Requirement

The program will consist of at least 90 semester credit hours beyond the baccalaureate degree, 66 hours of which are course work and 24 hours dissertation, or at least 60 semester credit hours beyond the M.S. degree, 36 hours of which are course work and 24 hours dissertation. A central requirement is the completion and oral defense of a dissertation based upon original research. The selection of courses must be structured based on the rules that follow. A list of core and elective courses also follows:

- Minimum credits in Mathematics
 Minimum 6000 or higher level credits in Civil & Environmental
- Engineering 23
 3. Minimum total credits in Civil &
- Environmental Engineering
 4. Minimum core credits in each of the three major areas in Civil & Environmental Engineering (core

courses follow)

5. Maximum credits outside Civil & Environmental Engineering and Mathematics (with advisor's approval)

18

18

6. Minimum dissertation credits 24
6. Minimum total credits beyond the B.S. degree 90

7. Total minimum credits beyond the M.S. degree 60

Additional engineering courses (3000 and 4000 level) may be required as deficiencies for students coming from non-engineering majors.

All courses and dissertation topics must be approved by the student's supervisory committee.

Supervisory Committee

The student's supervisory committee should be appointed as soon as possible within the 15-month period after the student has been admitted to the Ph.D. program. The committee should have a minimum five members, at least three from the Department of Civil & Environmental Engineering, and at least one from outside the department, but within FIU. All committee members should have a Ph.D. degree.

Residency Requirements

The Ph.D. student should spend at least one academic year in full residency, after successfully passing his/her Comprehensive Examination (see the following description).

Examinations

Students must demonstrate graduate knowledge acquisition in three incremental stages to be awarded a Ph.D. degree in Civil Engineering:

Stage 1 - Qualifying Examinations: the student must successfully pass a Qualifying Examination based on the work. student's course examination will take place at a time determined by the student's graduate advisor and supervisory committee. The research committee must certify that the student is capable of completing all required course work for the degree by the end of the semester in which the examination is given. This exam cannot be taken later than the semester in which the student has completed 66 credits of course work. The Department will announce each semester the dates of the Qualifying Exams and the students who are candidates to take it. The exam will have two parts. Part A applies to all students within each major area and contains 8 to 10 problems from the

core courses. Student may select 6 problems to solve. The exam will be given in one designated room and will last 8 hours and will be open-book. Part B is specific to each student's area of specialization, will be prepared by the advisor and supervisory committee, and will contain problems within each student's main area of research. The examination will last one weekend (i.e., problems will be given to the student at 5:00 pm on a Friday and returned by 9:00 am on the following Monday) and will also be open-book. All exams will be graded within a month from the date of the examination. Each student will be informed in writing about his/her overall performance. A student can only fail this exam once. If the student fails the exam, the student will have to take it again the following semester. Stage II - Comprehensive Examination

(Proposal Presentation): the student successfully complete Comprehensive Examination. examination will be in a format of a graduate seminar. It will consist of presenting a dissertation proposal in front of the supervisory committee, other faculty members, students, and visitors. The proposal must be prepared based on the guidelines for dissertation preparation and have the approval of the advisor and the supervisory committee. In the proposal the student has to demonstrate that the work is original and of practical significance to the profession, and that he/she has adequately been prepared to undertake it as determined by the majority of the committee. Preliminary results of the work in progress should also be presented (i.e., the proposal must be presented at least one year before the expected graduation, but not later than the end of the fourth year). A student can fail the Comprehensive Exam only once (i.e., a student can take this exam a total of two times).

Stage III — Final Oral Defense: the student must conduct the proposed research, write a dissertation, and successfully complete the oral defense of the work as determined by the majority of the supervisory committee. The defense will be in the format of a graduate seminar. Final defense should take place no later than the end of the seventh year after admission with BS degree or the sixth year after admission with an MS degree unless an extention has been granted (see previous description for length of study). A student can fail the Final Oral Defense

only once. Following a successful defense of the dissertation, as determined by a majority vote of the student's supervisory committee, the dissertation must be forwarded to the Dean of the College of Engineering and the Dean of the University Graduate School for their approvals. All disserations should also conform to the Unversity guidelines (see "Regulations for the Thesis and Dissertation Preparation"). One final approved bound copy of the dissertation should be delivered to the Chairperson of the Department of Civil and Environmental Engineering, one to the advisor, and one to each member of the supervisory committee. Additional copies must be given to the University Graduate School as specified by the University guidelines.

Graduate Certificate in Information Technology in Civil Engineering (ITCE)

The ITCE program brings information, computing communication and technology to the civil and environmental engineering professionals, who otherwise have little opportunity to be exposed to the rapidly changing technologies and techniques in these areas. The proposed program will provide the opportunity to learn the basics and application techniques of these technologies in an organized, systematic, and formal setting. The program offers a set of carefully selected courses on computing and information technologies tailored to the needs of engineers in the fields of civil environmental engineering, including structural, transportation, geotechnical, construction, and water The ITCE resources engineering. program will also provide specialization opportunites for professionals interested in developing computer and information technology applications in the civil and environmental engineering This program will help professional engineers (PE's) eam continuing education credits required to retain their registration. Interested students will be able to continue to earn a Masters in Civil Engineering degree if the admission requirements for the Masters program are met.

A minimum undergraduate GPA of 2.75 is required for admission. Intermational students must have a minimum score of 550 in the TOEFL before entering the program. To earn a gradaute certificate in ITCE, the students must successfully complete the program's core and elective courses.

The 1TCE curriculum consits of 18 credit hours - 6 courses (3 core + 3 elective) of 3 credit hours each as shown.

Core (Required) Courses:

CCE 5505

Advanced Computing in CGN 6424 Civil Engineering Intelligent Civil CGN 6308 Engineering Systems Computer Integrated

> Construction Engineering

Electives: GIS Applications for CGN 5321 Civil and Environmental

Engineering Computer Applications CES 5565

in Structures Advanced GIS for Civil CGN 6325

and Environmental Engineering Civil Engineering

CGN 5315 Systems

Construction BCN 5784 Information Systems

Advanced Industrial EIN 6117 Information Systems

Telecommunications ISM 6222 Network

Organization MAN 6830 Information Systems

Additional information about this program can be found at: URL: www.eng.fiu.edu/ce Tel: (305) 348-3055 Fax: (305) 348-2802

Academic Standard

The Department of Civil and Environmental Engineering requires that students receive no grade less than a "C" with an overall GPA of 3.0 in order to be awarded the graduate certificate.

Course Descriptions

Definition of Prefixes

CES-Civil Engineering Structures; CEG-Engineering General, Civil; CGN-Civil Engineering; CWR-Civil Water Resources; EES-Environmental Engineering Science; EGM-Engineering, Mechanics; EGN-Engineering, General; ENV-Engineering, Environmental; TTE-Transportation and Traffic Engineering

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: CCE 4001.

CCE 5036 Advanced Project Planning for Civil Engineers (3). Advanced techniques and methods for planning activities, operations, finance, budget, workforce, quality, safety. Utilize case studies as learning tools for students aspiring to management positions. Prerequisite: Permission of instructor.

Advanced CCE 5405 Construction Techniques (3). Heavy construction methods and procedures involved in large construction projects such as bridges, cofferdams, tunnels, and other structures. Selection of equipment based on productivity and economics. Prerequisite: Permission of instructor.

CCE 5505 Computer Integrated Construction Engineering (3). Course covers the discussion of available software related to Construction Engineering topics; knowledge based expert systems and their relevance to construction engineering planning and management. Prerequisite: CCE 4001.

CEG 5065C Geotechnical Dynamics (4). Analytical, field, and laboratory techniques related to vibration problems of foundations, wave propagations, behavior of soils and rocks, earth dams, shallow and deep foundations. Earthquake engineering. Prerequisite: CEG 4011.

CEG 6017 Theoretical Geotechnical Mechanics (3). A continuum mechanics interpretation of geotechnical engineering: soil rheology: theories of yielding: failure and plastic stability. Analytical and numerical modeling of non-linear properties. Prerequisites: CEG 4012C and MAP 2302. Suggested corequisite: MAP 4401.

CEG 6105 Advanced Foundations Engineering (3). Computer applications involving the numerical analysis and design of complex soil-structure interactions: highway and airfield pavements, deep foundation groups and techniques. tunnelling NATM Prerequisite: CEG 4012.

CES 5106 Advanced Structural Analysis (3). Extension of the fundamental topics of structural analysis with emphasis on energy methods and methods best suited for nonprismatic members. Prerequisite: CES 4101.

CES 5325 Design of Highway Bridges (3). Structural analysis and design for highway bridge systems which includes design criteria, standards of practice and AASHTO specifications for designing super-structures and substructure elements of various types of bridges. Prerequisites: CES 4605, CES 4702, CEG 4011.

CES 5565 Computer Applications in Structures (3). Discussion and application of available computer programs. techniques and equipment for the analysis, design and drafting of structures. Graduate students have to do a project. Prerequisites: CES 4605 and CES 4702.

CES 5606 Advanced Structural Steel Design (3). Extension of the analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Prerequisites: CES 4101. CES 4605.

CES 5715 Prestressed Concrete Design (3). The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and posttensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: CES 4702.

CES 5800 Timber Design (3). The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fasteners and their significance in design. Prerequisite: CES 4101.

CES 6209 Advanced Structural Dvnamics in Civil Engineering (3). Response of structures subjected to arbitrary forms of deterministic dynamic loading; formulation of methods to evaluate stresses and deflections due to vibrations. Prerequisite: EGM 5421.

CES 6706 Advanced Reinforced Concrete Design (3). The analysis and design of reinforced concrete and masonry structural systems to formalize the student's knowledge of the behavior of structural components into final integrated structure. Prerequisites: CES 4101, CES 4702, CEG 4011.

CGN 5315 Civil Engineering Systems (3). Application of systems analysis techniques to large scale civil engieering problems. Prerequisite: ESI 3314 or equivalent.

CGN 5320 GIS Applications in Civil and Environmental Engineering (3). Introduction to the basics of geographic information systems, their software and hardware, and their applications in Civil and Environmental Engineering, landscape architecture, and other related fields. Prerequisites: CGS 3420, SUR 3101C and consent of instructor.

CGN 5930 Special Topics in Civil Engineering (1-3), A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Prerequisite: Permission of the instructor.

CGN 5935 Professional Engineering (Civil) Review (4). Prepares qualified candidates to take the P.E. written examination in the field of Civil Engineering, Reviews hydraulics, hydrology, water supply and wastewater. geotechnics, structures, concrete and steel design, etc.

CGN 6308 Intelligent Civil Engineering System (3). Application of artificial intelligence and other techniques to build intelligent civil and environmental engineering systems. Develop planning, design, analysis, diagnosis, control, monitoring applications through projects. Prerequisite: Permission of the instructor.

CGN 6325 Advanced GIS for Civil and Environmental Engineering (3). Advanced GIS concepts and techniques for civil and environmental engineering applications including LRS, temporal GIS, 3D modeling, GIS data accuracy and standards, spatial statistical analysis, and others. Prerequisite: CGN 5930 or permission of the instructor.

CGN 6426 Advanced Computing in Civil Engineering (3). Advanced computer modeling and programming techniques for civil and environmental engineering applications including bata modeling, engineering database design, object-oriented programming, and user interface design. Prerequisite: Permission of the instructor.

CGN 6905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

CGN 6910 Supervised Researcg (1-6). Graduate level research carried out under the supervision of a faculty member.

CGN 6916 Engineering Project (1-3). Independent research work culminating in a professional practice oriented report for the requirements of the nonthesis option of the M.S. degree. Prerequisites: Fifteen graduate credits and approved project plan.

CGN 6930 Advanced Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Civil Engineering not otherwise offered. Prerequisite: Permission of the instructor.

CGN 6939 Graduate Seminar (1-3). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Permission of graduate's advisor.

CGN 6971 Thesis (1-6). The student following the thesis option of the Master's degree will pursue research through this course. The research work will culminate with an acceptable thesis. Prerequisite: Permission of graduate's thesis advisor.

CGN 7980 Ph.D. Dissertation (1-12). Doctoral research leading to Ph.D. civil engineering dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

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 iump, and wave formation, Prerequisites: CWR 3103.

CWR 5251 Environmental Hydraulics (3). Application of fluid mechanics in the study of physical mixing in surface water bodies, dispersion of materials, and design of hydraulic systems. Prerequisite: Permission of the instructor.

CWR 6117 Statistical Hydrology (3). Quantitative determination of surface water run-off from a statistical approach. Prerequisites: CWR 3201 and CWR 3103.

CWR 6125 Groundwater Hydrology (3). Physical properties, equations of flow/mass transport, saturated/unsaturated zone, wells, pumping tests, quality/contamination control, analytical solutions, introduction to numerical

models/computer codes. Prerequisite: Permission of the instructor.

CWR 6126 Advanced Groundwater Hydrology.(3). Finite difference/finite element/boundary integral methods, transport and fate of chemically and biologically reacting solutes, tracer tests, hydrological approaches to remedial action and monitoring. Prerequisites: CWR 6125, or Permission of the instructor.

CWR 6236 Engineering Sediment Transport (3). Physical processes of sediment transport and deposition, land erosion, river morphology applied to engineering design, design of stable channels, scour, transport of sedimentattached pollutants.

EES 5135 Water Quality Indicators (3). Ecological studies of micro and macro organisms which are indicators of water quality. Emphasis of bioassays and early warning systems. Prerequisite: Permission of the instructor.

EES 5137 Biological Monitoring of Freshwater Ecosystems (3). The use aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisite: EES 5135 or Permission of the instructor.

EES 5506 Occupational Health (3). Effects, assessments, and control of physical and chemical factors in man's environment, including chemical agents. electromagnetic radiation, humidity, pressures, temperature, illumination, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5605 Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 6506 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electromagnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6508 Occupational Health and Toxicology (3), A continuation of EES 6506. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 6506.

EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photoelasticity and Moire. Prerequisites: EGM 3520, EGM 5653.

EGM 5351 Finite Element Methods in Mechanics (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydro-elasticity, etc. Prerequisite: EGM 3520.

EGM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of singles and multidegree of freedom structures, including damping of lumped and distributed parameters systems. Graduate students have to do a project. Prerequisite: MAP

EGM 6425 Structural Reliability (3). Fundamentals of probability theory and stochastic processes; probabilistic modeling of structural loads and material properties; reliability analysis and design of structures; reliabilitybased design criteria. Prerequisite: STA 3033.

EGM 6533 Advanced Mechanics of Materials (3). Extension of the fundamental principles of engineering mechanics to include curved beams. warping, stability, etc. Prerequisites: CES 4101, MAP 3302.

EGM 6653 Theory of Elasticity (3). An advanced course covering the concepts of stress and strain tensors, indicia notation, transformation of stresses, compatibility equations, the stress function and the closed form solution of some important continuum mechanics problems. Prerequisites: EGM 3520, MAP 3302.

EGM 6675 Advanced Plasticity (3). Formulation of the plastic stress-strain relationships; Prandtl-Reuss equations; vield 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 beamcolumn 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 permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Graduate students have to do a project. Prerequisite: CES 4101.

5990 **Fundamentals** Engineering (FE) Review (4). Prepares upper level engineering students to take the Fundamentals of Engineering (FE) State Board examinations. Reviews chemistry. computers, statics, dynamics, electrical circuits, fluid mechanics, mechanic of materials. material science and thermodynamics.

ENV 5002C Fundamentals for Environmental Engineers (3). Laws and principles of the physical, chemical and biological phenomena that define and control the fate of chemical species in natural and engineered systems. Prerequisite: Permission of the instructor.

ENV 5007 Environmental Planning (3). Environmental laws and regulations, ecological principles, planning policies and processes, risk assessment, environmental impact due to growth. and environmental indicators.

ENV 5008 Appropriate Technology Developing Countries (3). Appropriate environmental technologies and associated factors. Topics include water, air, soil and waste management. Low cost and energy alternatives are emphasized. Prerequisite: Permission of the instructor.

ENV 5027 Bioremediation Processes (3). Biotransformation of subsurface contaminants is gaining recognition as a viable treatment tool. This course provides students with quantitative methods required to design bioremediation systems. Project required. Prerequisite: Permission of the instructor.

ENV 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. Percequisite: Permission of the instructor.

ENV 5065 Vector and Pest Control (3). Effects and management of public health vectors and communicable diseases. Prerequisite: ENV 5500 or Permission of the instructor.

ENV 5104 Indoor Air Quality (3). Assessment of sources of indoor air pollutants and human exposure. Remediation of unhealthy conditions by source control.

ENV 5105 Air Quality Management (3). The air pollution problem, principal types, sources and dispersion of pollutants. Physical, economic, and legal aspects of control of atmospheric pollutants.

ENV 5116 Air Sampling Analysis (3). Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation. Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisite: ENV 5105 or ENV 4101.

ENV 5126 Particulate Air Pollution Control (3). Particulate pollution control devices, principles, design, costs. Cyclones, electrostatic precipitators, filters, bag houses, scrubbers, noval control devices

ENV 5127 Gaseous Air Pollution Control (3). Gaseous pollution control devices, principles, design, costs. Gaseous pollutants control using adsorption, absorption, incineration, and other novel control systems.

ENV 5334 Spill Response and Hazardous Materials Transport (3). Consequence analysis of accident scenarios covering the release and dispersion of toxic substances during transport into air, soil, or aquifer and fast response to spills and toxics recovery. Perequisite: Permission of the instructor.

ENV 5335 Advanced Hazardous
Waste Treatment Processes (3).
Theory and principles of technologies
of treatment and disposal of hazardous
waste. Procedures for remedial
investigations and feasibility studies.
Prerequisite: Hazardous Waste Assessment and Remediation or permission of
the instructor.

ENV 5347 Waste Incineration (3).

Domestic and industrial waste incineration and pollutant stream control of aqueous and airborne pollutants. Design of incinerations.

ENV 5356 Solid Wastes (3). In-depth study of the solid waste problem. Topics include municipal, industrial, and agricultural generation of wastes; municipal collection systems; methods of disposal, hazardous wastes, and energetic considerations in the recovery and recycle of wastes.

ENV 5406 Water Treatment Systems and Design (3). Course emphasizes water quality, quantities, treatment addistribution systems particularly as relates to municipal water supply. Requires laboratory project. Prerequisite: Permission of the instructor.

ENV 5512 Water and Wastewater Analysis (3). Relevance of the main quality parameters and their measurements by wet chemistry and analytical equipment. Includes BOD, COD, TOC, CO, TSS, VSS, alkalinity, acidity, PH hardness, ammonia, 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 5512.

ENV 5517 Design of Wastewater Treatment Plants (3). Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of the instructor.

ENV 5519 Reactions in Environmental Engineering (3). Basis for applying microbial and physicochemical principles to understand reactions occuring in natural and engineered systems including water/wastewater treatment processes. Includes laboratory project. Prerequisite: Permission of the instructor.

ENV 5559 Reactor Design (3). A theoretical and practical basis for reaction kinetics to understand multiphase reactions, analysis and design of batch and continuous flow reactors. Projects on analysis of reactor design and operating data.

ENV 5659 Regional Planning Engineering (3). Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting; economic base analysis. Prerequisite: Computer Programming or Permission of the instructor.

ENV 5666 Water Quality Management (3). Predicting and evaluating the effect of human activities on streams, lakes, estuaries, and ground waters; and the relation of human activities to water quality and protection of water resources. Prerequisite: Permission of the instructor.

ENV 5905 Independent Study (1-3). Individual research studies available to academically qualified students on graduate status.

ENV 5930 Special Topics in Environmental Engineering (1-3). Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

ENV 6045 Environmental Modeling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Pereequisite: Computer programming or permission of the instructor.

ENV 6056 Engineering Assessment of Metal Contaminants & Colloidal

Transport (3). Kinetics of metal sorption reactions, colloidal transport, assessment of metal contaminants in soil. Prerequisite: Permission of the instructor.

ENV 6070C Pollution Prevention (3).
Pollution prevention guidelines.
Characterization, assessments and audits of processes in the energy and industrial sectors. Minimization

approaches. Feasibility, cost analysis and implementation. Prerequisite: Permission of the instructor.

ENV 6337 Hazardous Waste Site Assessment (3). Phase I and Phase II Investigations, Environmental Testing, Assessment, Monitoring Design. Prerequisite: ENV 5335 or permission of the instructor.

ENV 6435 Design of Drinking Water Treatment Plants (3). Drinking water treatment plant design, including unit operations from coagulation, sedimentation, filtration to disinfection, together with advanced treatment technologies.

ENV 6510 Advanced Unit Operations I (3). Theory and design of physical and chemical processes for treatment of contaminated media. Application of fluid mechanics, heat and mass transfer to design and operation of physical/chemical systems. Prerequisite: Permission of the instructor.

ENV 6511C Advanced Unit Operations II (3). Theory and design of biological processes for treatment of contaminated media. Application of biochemical reaction kinetics theory to design and operation of biological treatment systems. Prerequisite: Permission of the instructor.

ENV 6511L Advanced Unit Operations Il Lab (1). Bench scale experiments for scaling-up designing the following water and wastewater processes: sedimentation, coagulation, filtration, adsorption, oxidation and gas transfer. Prerequisite: ENV 6510. Corequisite: ENV 6511.

ENV 6516 Advanced Treatment Systems (3). Integration of unit operations into advanced treatment systems for contaminated media. Applications may include either conventional or innovative/emerging technologies. Prerequisite: Permission of the instructor.

ENV 6558 Industrial Wastewater Treatment (3). Characteristics and composition of industrial wastewaters. Sampling techniques and analyses. Water conservation and re-use. Joint industrial-commercial collection and treatment of wastewaters. Prerequisite: ENV 6516.

ENV 6614 Environmental Risk Assessment (3). Characteristics of risk analysis, hazard identification, exposure assessment, consequence analysis, dose-response analysis. Prerequisite: Permission of the instructor.

ENV 6615 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Environmental impact assessment methodologies are emphasized.

ENV 6916 Engineering Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the M.S. degree-project option. Only three credits are applicable towards degree. Prerequisites: Completion of 20 graduate credits and approved proposal.

ENV 6934 Advanced Special Topics in Environmental Engineering (1-3). Specific aspects of Environmental Engineering requiring engineering and research skills. A maximum of three credits are applicable towards degree. Prerequisite: Permission of the instructor.

ENV 6935 Graduate Environmental Seminar (1-3). The course consists of oral presentations made by students. guests, and faculty members on current topics and research activities in environmental systems.

ENV 6971 Thesis (1-6). Research for Master's thesis.

TTE 5007 Transportation Systems in Developing Nations (3). Transportation systems in the Developing Nations. Role of international organizations, technology transfer/choices, orientation of transport networks, socio-economic and environmental impacts. Prerequisite: Graduate standing or Permission of the instructor.

TTE 5015 Applied Statistics in Traffic and Transportation (3), Civil Environmental Engineering statistics methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prerequisite: Graduate standing.

TTE 5100 Transportation and Growth Management (3). Theory and principles of transportation and growth management, including the growth phenomena and regional impact planning. Design projects required. Prerequisite: TTE 4201.

TTE 5107 Highway Safety Analysis (3). Accident reconstruction, intersection analysis, highway safety standards, speed estimations from skidding, momentum/energy relationships, human factors. Prerequisites: STA 3033, TTE 4201.

TTE 5205 Advanced Highway Capacity Analysis (3). Parameters involved in calculating highway capacity and level of service on different highway and transportation facilities. Computer application will be also discussed. Prerequisite: TTE 4201.

TTE 5215 Fundamentals of Traffic Engineering (3). Speed and volume studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: TTE 4201.

TTE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in transportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: TTE 4201.

TTE 5607 Transportation Demand Analysis (3). Travel demand analysis and forecasting. Modeling techniques including trip generation and distribution, mode split, and trip assignment. Practical applications. Prerequisite: TTE 4201.

TTE 5805 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of curve super-elevation: highways; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisite: SUR 3101C and TTE 4201.

TTE 5835 Pavement Design (3). Analysis and design of sub-base, base, and pavement of a roadway. Discussions of flexible pavement and rigid pavement as structural Boussinesq's approach. Westergaard's theory. Beams on Elastic Foundations. Prerequisites: CEG 4011 and CES 4702.

TTE 5925C Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: TTE 4201.

TTE 5930 Transportation Seminar (1-3). Oral presentations made by students, guests, and faculty members on current topics and research activities

301

in traffic and transportation engineering. Prerequisite: TTE 4201.

TTE 6257 Traffic Control Systems Design (3). Theory and principles of traffic control systems design, including both freeway and urban streets. Design projects required. Prerequisite: TTE 4201.

TTE 6267 Traffic Simulation Models (3). Traffic simulation modeling and analysis. Application of microscopic and macroscopic traffic simulation models to evaluate and optimize traffic control systems. Prerequisites: TTE 6257 or equivalent.

TTE 6506 Mass Transit Planning (3). Theories and principles of mass transit planning, include highway transit, rail transit and new transit modes. Design projects required. Prerequisite: TTE 5930.

TTE 6525 Bearing Capacity of Roads and Airfields (3). Advanced study of bearing capacity principles and theory; stress-strain behavior of pavements; constitutive modeling; and failure histories of pavement. Prereq-uisite: Permission of the instructor.

TTE 6526 Airport Planning and Design (3). Theory and principles of airport planning and design, include both general aviation and major commercial airports. Design projects required. Prerequisite: Permission of the instructor.

TTE 6528 Airport Terminal Design and Operations (3). Theory and operations including passenger terminal complex, cargo terminal complex, and ground transportation. Design projects required. Prerequisite: Permission of the instructor.

TTE 6605 Planning and Design of Intermodal Facilities (3). Theory and practice of intermodal facility planning and design, including facility location, site design and access, and intermodal considerations. Design projects required. Prerequisite: TTE 5930 or permission of the instructor.

TTE 6650 Transportation and Land Development (3). Theory and principles of transportation and land development, including site planning, traffic analysis, and access and site circulation. Design projects required. Prerequisite: TTE 4201.

TTE 6755 Port Planning and Development (3). Theory and practice

of port planning and development, including demand analysis, capacity evaluation, ground access, and port development strategy. Design projects required. Prerequisite: TTE 5930 or permission of the instructor.

TTE 6833 Superpave Asphalt Mixture Design and Analysis (3). Materials characterization and testing; elastic, visco-elastic and plastic behavior; fracture and fatigue, rutting and design of bituminous mixtures. Prerequisite: Permission of the instructor.

TTE 6834 Pavement Maintenance and Rehabilitation (3). Pavement performance assessment; criteria for pavement evaluation, measurement of pavement distress. Analysis and interpretation of pavement condition data. Formulation and evaluation of maintenance and rehabilitation alternative. Prerequisite: Permission of the instructor.

TTE 6837 Pavement Management Systems (3). Theory and principles of pavement management systems (PMS), including PMS at network and project level, PMS strategies, and PMS software packages used for decision making process. Prerequisites: TTE 5835 or permission of the instructor.

URP 5312 Urban Land Use Planning
(3). Elements of the general land use
plan, location and space requirements;
the use of models in planning;
development of the land use plan;
policy plan, implementation. Prerequisite: Consent of instructor.

URP 5316 Environmental and Urban Systems (3). Overview of basic issues and principles of environmental and urban planning/design systems. Emphasis will be placed on multidisciplinary linkages.

URP 5912 Research Methods (3). Methods of information search, data interpretation, and hypotheses formulation used in the field.

URP 6222 Urban Regional Analysis (3). The urban areas as a complex system; modeling the urban growth processes; statistical decision making games; modeling and simulation; cost effectiveness; application of the theory; a system-wide view of the Miami area. Prerequisite: Consent of instructor.

URP 6317 Advanced Environmental and Urban Systems (3). To study the application of physical planning and design concepts and their environmental, infrastructural and social impacts.

URP 6906 Independent Study (1-3). Specialized individual studies in Environmental and Urban Systems. Prerequisite: Consent of instructor.

URP 6935 Special Topics (3). Intensive treatment of specific subjects in the field of environmental and urban systems. Topics will vary depending upon the interest of students and faculty.

URP 6937 Final Project (1-3). Individual work culminating towards professional practice that also meets a degree requirement of the Master of Environmental and Urban Systems program. Prerequisite: Permission of instructor.

Construction Management

John M. Dye, Chairperson Syed M. Ahmed, Assistant Professor and Graduate Program Director

Ronald A. Baier, Instructor and Undergraduate Advisor

Amaury A. Caballero, P.E. Assistant Professor

Kenneth H. Carpenter, Associate Professor

Bhaskar Chaudhari, P.E., Professor Eugene D. Farmer, A.I.A., Associate Professor and Undergraduate Coordinator

Jose D. Mitrani, P.E., Associate Professor

Zeljko M. Torbica, Assistant Professor

Master of Science in Construction Management

The masters degree is rapidly becoming the entry level requirement for middle and upper level managerial positions in the construction industry. The primary goal of this program is to provide the knowledge and advanced skills essential for success in these positions. The program is flexible enough to accommodate graduates from other disciplines who may lack an undergraduate background in construction management.

Students who hold four year undergraduate degrees in construction management may complete the masters degree in one academic year as fulltime students. Equivalent degree related fields would include studies in construction drawings, construction materials and methods, construction accounting and finance, economic planning, structures, sitework, legal aspects of construction, cost estimating, construction scheduling and business management/finance. Students with deficiencies in these fields may need longer residence for the masters degree, as they will be required to take specified basic courses.

Admission Application

Students desiring to enter the Contstruction Management graduate program must formally apply to the University for acceptance. See the 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. Students with baccalaureate degrees in other fields may be accepted with the understanding that they will be required to take specified basic courses to provide an adequate background for more advanced courses. In addition, applicants must have earned a minimum grade point average (GPA) of \$3.0\$ in the upper division course work related to their undergraduate degree.

In addition to the GPA requirement, the eligibility of an applicant will be determined on the basis of:

- letters of reference (minimum of three);
- work experience
 GRE or GMAT scores
- Other relevant factors, including but not limited to, awards, recognitions, published journal articles,

conference presentation, etc.
Applicants, who do not satisfy the GPA requirement will be evaluated by the Department's Graduate Program Director and may be recommended for admission on a probationary status.

TOEFI.

In addition to the above criteria, foreign students must take the TOEFL (Test of English as a Foreign Language) exam and obtain a score of 550 or better on a paper based exam or 213 or better on a computer based exam.

Curriculum

Students seeking to obtain a Master of Science Degree in Construction Management have a choice of either a thesis or a non-thesis option. The 36 semester hour thesis option consists of a minimum of 30 semester hours of course work and up to six semester hours of thesis. The non-thesis option consists of 36 semester hours of course work and may include up to six semester hours of independent studies. A student shall not register for masters thesis without first having received the approval from his/her advisor, his/her supervisory committee, and the Chairperson of the Department. A student may not register for independent studies without first having received the approval of his/her advisor, and the Chairperson of the Department. Students granted tuition waivers are expected to complete the thesis option.

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, up to two courses numbered 4000-4999 may be taken provided they are part of a plan of study approved by the student's supervisory committee or the Department Graduate Committee, whichever is applicable, and prior approval is obtained from the Chairperson of the Department. Approval must be obtained in writing prior to the student registering for such a course.

Students with deficiencies in the areas designated as equivalent related fields will be required to take 3000 and 4000 level courses in Construction Management in order to provide the proper foundation for advanced courses. Students required to take these prerequisite courses are advised to register them for the 'P' or 'F'(Pass or Fail) grade. All grades other than "P" grades (regardless of course level) will be counted when calculating the student's graduate grade point average.

The program of course work for a masters degree must be approved by the student's advisor, supervisory committee (if thesis option), and Department Chairperson. No more than six credits from a previous masters degree program may be applied toward a second masters degree. These credits are applied only with the written approval of the Department Chairperson and the Dean of the College of Engineering.

Transfer of Credit

Only graduate (5000 - 7999) level work to the extent of two courses, totaling not more than six semester hours. earned with a grade of 'B' or better may be transferred from another institution, or from postbaccalaureate work at the University except as noted otherwise in this catalog. Credits transferred from other universities may be applied toward meeting the degree requirements but the grades earned will not be computed in the student's grade point average. Acceptance of transfer of credit requires approval of the student's advisor, supervisory committee (if thesis option) and the Department Chairperson. Petitions for transfer of credit for a masters degree should be made during the student's first term of enrollment in the masters

program. No courses taken by correspondence or as part of a baccalaureate degree may be used toward a graduate degree.

Supervisory Committee

Students who choose the thesis option should request the appointment of a supervisory committee as soon as possible after admission into the program, but in no case later than the second semester of graduate study. Supervisory committees for graduate degree programs are nominated by the student's graduate advisor approved by the Department Chairperson, College Dean, and University Graduate School. student's proposed plan of study must be approved, in writing, by student's graduate advisor, the supervisory committee and the Department Chairperson.

Masters Thesis

A student choosing the thesis option must, as part of his/her plan of study, prepare a written proposal of the thesis work planned. 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, the Department Chairperson, College Dean, and the University Graduate School, the student will be permitted to register for masters thesis.

Examination

A final comprehensive examination is required for thesis masters candidates and may be required for non-thesis masters candidates. A passing grade must be obtained in order to qualify for graduation. This examination will cover at least the candidate's field of concentration and may include any other topics of general construction knowledge. For a candidate who elected the thesis option. examination will be administered by his/her supervisory committee. For a candidate who elected the non-thesis option, the examination will be administered by an examination committee comprised of three faculty appointed by the Deaprtment Chairperson. The final comprehensive examination may be waived at the option of the Department Chairperson for candidates selecting the non-thesis, non-project, coursework only option. Candidates desiring a waiver must

petition their request no later than the second week of their last semester prior to graduating.

Time Limitation

All work, including transferred credit, counted toward the masters degree must be completed during the six years immediately preceding the date on which the degree is awarded.

Special Student

Students wishing to enroll in courses during the application process may do so as a special student. Students must consult an advisor for approval and complete a special student enrollment waiver. Without this waiver and advisor approval, there is no guarantee that the courses taken will be accepted for graduation. No more than 15 semester credits of work taken as a special student can be applied towards graduation. Students taking courses under the special student designation should consult other sections of this catalog for pertinent regulations covering the special student status.

General Regulations Normal Loads

Students taking a minimum of 9 semester credit hours per semester are considered full time students at the graduate level. Students taking under 9 hours are considered part time and should be aware that certain university privileges and benefits may not be applicable to part time students. 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, wishing to take over 12 semester credit hours. This requires the approval of both the Chairperson of the Department and the Dean of the College of Engineering.

Grades

The Department of Construction Management requires a minimum grade point average of 3.0 in all courses taken towards a masters degree. The minimum acceptable grade for any work attempted as a graduate student is a "C." Students required to take 3000 and 4000 level prerequisite courses shall take them until they complete them with a grade of "P" or better (or "C" or better). All grades other than "P" grades (regardless of course levei) will be counted when calculating the student's graduate grade point average.

Grade of Incomplete

A grade of "I" (Incomplete) may be granted, at the option of the Instructor, to a student who, due to serious, documented, and verifiable extenuating circumstances beyond his/her control is unable to complete the work required to obtain a grade for a course.

A student granted a grade of "I" must complete the work deemed necessary by the instructor as quickly as possible. Work must be completed within two semesters after the grade was assigned to the student, or the grade will automatically revert to a grade of "F" (failing grade).

Distance learning (FEEDS) students who have not completed the required work, assignments, or tests at the time grades are reported for a term will receive an automatic extension and their transcripts will reflect a NR (not reported) marking. It is the policy of the Department that all work for distance learning students must be completed not later than 30 days after the end of the term in which the course was taken.

Credit By Examination

The Department does not generally offer graduate credit by examination. 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 and the student's average for the preceeding term was not below 3.0.

Distance Learning

Graduate courses are available through distance learning (FEEDS). Students desiring to pursue their course work in this mode should contact the Graduate

Program Director for information and procedures.

Course Sequence and Prerequisites

It is the student's responsibility 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 a class.

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 (if applicable), and the Department Chairperson. This includes completion of all applicable graduate course work with an overall minimum grade point average of 3.0. A student choosing the thesis option must also have submitted a complete masters thesis, whose format, content, and presentation must be acceptable to and approved by his/her graduate advisor, supervisory committee, Department Chairperson, College Dean, and University Graduate School. Students must additionally have successfully passed his/her final examination if one is required. (See Examination, above).

Students should contact an advisor at least one semester prior to their projected graduation and request a review of their file. At the start of the final semester the student is required to complete an Application for Graduation. If for any reason a student fails to graduate in the semester after applying for graduation, the student must reapply for graduation.

It is the student's responsibility to ascertain that all requirements for graduation, as stated in the University Catalog and in the Department Program sheets, have been met.

Core Curriculum

The core curriculum is required of students lacking appropriate and acknowledged (by advisor) course work in the topics below. Students

register for 3 count toward complete the of core cre degree: I2. S course work i	take a core course w. 3 credits of which 2 w s the 36 credits needed degree. Maximum numb dits applicable towars tudents with prior specif n these areas may not take for credit towards degree Fundamentals of Construction Estimatin	ill er is ic ic
BCN 5645	Construction Economic	
BCN 5766	Codes and Regulations	-
BCN 5728	Principles of	
	Construction	
	Scheduling	3
BCN 5746	Construction Legal	-
	Environment	3
BCN 5406	Principle of Building	
	Structures for	
	Construction	
	Management	3
Construction	n Management	
Electives	n Management	
	credits to be taken from	
	courses marked with a	
	Thesis students may tak	
	ts of BCN 6971, and a	
	take up to 6 credits of	
BCN 5905 (se		•
BCN 5022	Housing for	
	Developing Countries	3
BCN 5588	Vulnerability Analysis	3
BCN 5589	Hazard Mitigation	3

	Thesis students may take
up to 6 cred	its of BCN 6971, and all
students may	take up to 6 credits of
	ee note below).
BCN 5022	Housing for
	Developing Countries
BCN 5588	Vulnerability Analysis
BCN 5589	Developing Countries Vulnerability Analysis Hazard Mitigation
*BCN 5626	Construction Cost
	Analysis & Control
BCN 5706	Interdisciplinary
	Aspects of Housing
*BCN 5716	Productivity in
	Construction
BCN 5735	Hazardous Materials &
	Waste in Construction
BCN 5738	Construction Safety
	Management
BCN 5749	Advanced Construction
	Documentation
*BCN 5755	Construction Financial
	Management
*BCN 5771	Management &
	Marketing of Const.
	Services
BCN 5772	Management of
	Construction
	Organizations 3
BCN 5784	Construction
	Information Services 3
BCN 5905	Directed Independent
	Studies ¹ 3-6
BCN 5906	Special Topics 3-6
BCN 6473	Systems Approach for
	Housing Planning 3
*BCN 6642	Value Engineering in

	Graduate Cata	log
BCN 6775	Construction Decision & Risk Analysis in	3
*BCN 6785	Construction Advanced Estimating	3
	and Bidding Strategy	3
BCN 6788	Artificial Intelligence	in
	Construction	
	Management	3
BCN 6916	Developments in	
	Construction	
	Technologies	3
BCN 6935	Graduate Seminar	3
BCN 6971	Thesis ¹	3-6
Note: A stud	ent shall not register for	
	BCN 6971, without the	
approval of hi	s/her advisor, and the	
Department C		
Graduate	Certificate in	

Graduate Certificate in Construction Engineering & Management (CEM)

This certificate program is open to students with a Bachelor's Degree in civil engineering, construction management, construction engineering, architecture, architectural engineering and other closely related fields of study from an accredited institution. The CEM program develops construction management techniques related to the technological environment of the construction industry. The program blends a carefully chosen mix of civil engineering and construction management courses designed to provide specialization opportunities in Construction Engineering & Construction Management. The skills, concepts and techniques learned will be related to, but not dependent upon, a knowledge of construction and engineering with an emphasis on constrcution manage-ment and organizational skills appropriate for the professional construction manager.

Applicants for the program will be required to meet the same entrance standards as those applying to the Master of Science program. Credits earned in the program with a BCN prefix and up to 3 courses with a CCE or CGN prefix with a grade of "B" or better are fully transferable towards a Masters of Science in Construction Management.

To earn a Graduate Certificate in CEM, the students must successfully complete the program's core and elective courses with a minimum grade point average of 3.0, and have no grade lower than "C". The program consists of 18 credit hours – 6 courses (3 core courses + 3 electives) of 3 credit hours

each. These courses cover functional areas of construction management and specialized technical and engineering functions.

Required CEM Courses:

BCN 5645 Construction Economic Analysis CCE 5035 Construction

Engineering Management

> Principles of Construction Scheduling

Electives CEM Courses:

BCN 5728

BCN 5626 Construction Cost Analysis & Control BCN 6775 Decision & Risk

Analysis in Construction

BCN 6916 Developments in Construction Technology

BCN 5774 Topics in International

CCE 5505 Computer Integrated
Construction

CGN 5315 Civl Engineering Systems

BCN 5716 Productivity in Construction

Additional information about this program can be found at: URL: www.flu.edu/cm
E-mail: ahmeds@flu.edu
Tel: (305) 348-3172
Fax: (305) 348-6255

Course Descriptions

Definition of Prefixes BCN-Building Construction

individual needs.

Student programs of study in the graduate level program are carefully designed and sequenced following consultation with a graduate faculty advisor. Appropriate prerequisite course work is assigned on the basis of

BCN 5022 Housing for Developing Countries (3). Problems faced by developing countries in housing their population. Political, economic, social, and technical considerations in decision process.

BCN 5406 Principles of Building Structures for Construction Management (3). Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Core curriculum course. See discussion, above.

BCN 5588 Vulnerability Analysis (3). Assessment of risk and potential for

damage to a community or facility from the impact of natural or anthropogenic hazards. Physical and construction related issues.

BCN 5589 Hazard Mitigation (3). Reducing potential damage to the built environment from natural hazards, including hurricanes, floods, earthquakes, explosions. Benefit-cost analysis. Regulatory problems.

BCN 5618 Fundamentals of Construction Estimating (3). Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes. Core curriculum course. See discussion, above.

BCN 5622 Advance Planning and Simulation for Construction (3). The application of advanced planning, scheduling, and simulation techniques and concepts to construction processes and operations.

BCN 5626 Construction Cost Analysis and Control (3). Description of different types of estimating techniques in relation to different stages in a construction project. Pro-ductivity analysis, measurement of progress, and techniques of cost control are covered.

BCN 5645 Construction Economic Analysis (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Core curriculum course. See discussion, above.

BCN 5706 Interdisciplinary Aspects of Housing (3). Recognition and definition of those factors which affect the planning, financing, and construction of housing projects. The operations and responsibilities of a multidisciplinary team dealing with decision process. This course takes a critical look at the housing delivery system to include: how the housing industry operates, various technologies prevalent in housing construction, and constraints to housing. The course will also look at the future, examining problems and forces that will shape opportunities.

BCN 5716 Productivity in Construction (3). An in-depth study of common issues relating to productivity improvements in construction.

BCN 5728 Principles of Construction Scheduling (3). The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduling vs. actual job expenditures. Cost foreasting development of unit prices from field data. Laboratory is included which consists of computer applications. Core curriculum course. See discussion, above.

BCN 5735 Hazardous Materials and Waste in construction (3). Discussion of the common hazardous materials and waste regulations found in construction activities.

BCN 5738 Construction Safety
Management (3). Introduce the
graduate student in Construction
Management to the important elements
essential in managing the safety
function of a construction company.

BCN 5741 Construction Claims (3). Construction claims administration and avoidance. Covers the importance of construction contact errors, unforseen and changed conditions, disruptions, acceleration, termination, and proving of claims.

BCN 5746 Construction Legal Environment (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Core curriculum course. See discussion, above.

BCN 5747 Construction Law Case Studies (3). Case study and analysis of reported appellate decisions on common construction law issues; licensing; bid disputes; contract issues; construction lien law; surety problems; and unresolved claims.

BCN 5749 Advanced Construction
Documentation (3). Construction
related documentation requirements for
avoidance of litigation before, during,
and after completion of construction
projects; dispute resolution processes
for construction operations. Prerequisites: BCN 5746.

BCN 5755 Construction Financial Management (3). Money management

in construction operations: financing, funding, sources of money, cash flow, disbursement, liability and bonding, cost and managerial accounting, and profit analysis.

BCN 5766 Codes and Regulations (3). Study of building codes required by local, county, and state levels and their relation to quality control. Core curriculum course. See discussion, above.

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.

BCN 5774 Topics in International Construction (3). Introduction to procurement, financing and management of international construction projects with emphasis on international economics, contracts, trade agreements and specifications.

BCN 5784 Construction Information Systems (3). The application of information management techniques, including computer hardware and software systems, to the analysis and solution of typical problems in the practice of construction management.

BCN 5905 Directed Independent Studies (VAR). Individual studies under supervision of faculty, tutor, or advisor. Requires prior approval of advisor and Chairperson.

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.

BCN 6785 Advanced Estimating and Bidding Strategy (3). Application of computer software to rigorous exercises in construction estimating. Cost information related to con-struction with applications in current practice.

BCN 6788 Artificial Intelligence Applications in Construction Management (3). The course presents a study of the concepts, techniques, and applications of AI technology in the construction management domain.

BCN 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

BCN 6916 Developments in Construction Technologies (3). Study of advanced field techniques and emerging uses worldwide. Information flow and creativity are highlighted as crucial elements which stimulate new developments. This course prepares the students to understand and deal with concepts of change. Prerequisite: BCN 5716.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (3-6). Students develop a thesis under the direction of a senior faculty mentor, and their supervisory committee, and advance and defend their propositions before an audience of peers, scholars, and their supervisory committee. Requires approval of advisor, committee, and Department Chairperson.

Electrical and Computer Engineering

Malek Adjouadi, Associate Professor Jean Andrian, Associate Professor, and Graduate Program Director

Tadeusz Babij, Professor Armando Barreto, Associate

Professor Frank Candocia, Assistant Professor Thomas Gilbar, Instructor and

Undergraduate Advisor Malcolm Heimer, Associate Professor

W. Kinzy Jones, Professor Sakhrat Khizroev, Associate Professor

Grover Larkins, Associate Professor Osama Mohammed, Professor and Associate Chair

Malathi Palaniappa, Visiting Instructor

Niki Pissinou, Professor Gustavo Roig, Associate Professor and Associate Dean

James Story, Professor and Associate Dean

Frank Urban, Associate Professor Yuriy A. Vlasov, Assistant Professor Jian Wang, Assistant Professor Subbarao Wunnava, Professor Kang Yen, Professor and Chairperson

Chi Zhou, Assistant 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 5 years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies of areas of interest. Multi-disciplinary programs such as Computer Engineering, Systems Engineering, and Biomedical Engineering are also available.

Admission Requirements

The following is in addition to the University Graduate School admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution. or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.

2. The GPA, GRE and TOEFL scores above are to be considered minimum requirements for admissions. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

- 1. Recommendation of the advisor and faculty of the Department.
- 2. Certification by the Dean of the School that all requirements of the degree being sought have been completed.
- 3. A GPA of at least 3.0 has been earned for certain courses required by the program.
- 4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.
- 5. Completed the required semester hours of graduate level credit (not more than 6 graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
- 6. Successful defense of an acceptable graduate thesis if required by the program.
- Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.

8. Complied with all University policies and regulations.

Thesis Option

A student must complete 24 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master's Thesis. The candidate's supervisory committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000 level course credit and a minimum of 9 hours at the 5000-6000 level in Electrical Engineering.

Upon the successful completion of all course work, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research.

Non-Thesis Option

Distance learning students and oncampus students may choose the nonthesis option for their master's degree. The degree requirements differ from the thesis option in two respects. First, the student can petition to be exempt from the thesis requirement, including the 6 credits it entails by substitution of graduate project. Second, the candidate will be required to pass a comprehensive final examination. This exam will be given by a committee selected by the department. membership of this committee may include faculty and engineers from industry. The exam is intended to test the candidate's general ability in the areas of study and it will be given near the end of the candidate's final semester. A student who fails the exam may not attempt it agian until one semester has elapsed or upon the completion of additional course work examining prescribed by the committee. The exam may be retaken only once.

Math Electives:

Select 2 courses with advisor approval

Select 2 cours	es with advisor approval.	
EEL 5171	Advanced System	
	Theory	3
EEL 5543	Random Signal	
	Principles	3
EEL 6020	Numerical Analysis of	
	Electrical Devices	3
MAA 4211	Advanced Calculus	3
MAA 4402	Complex Variables	3
MAD 3401	Numerical Analysis	3
MAP 4401	Advanced Differential	
	Equations	3
MAP 5117	Mathematics and	
	Statistics Modeling	3
STA 5446	Probability Theory 1	3
STA 5447	Probability Theory II	3
STA 5800	Stochastic Processes fo	r
	Engineering	3
The above !	ist may be changed o	г

expanded by the committee.

Remaining course work will be selected by the student and his advisor based on the student's career objectives.

Any course taken without the proper prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Students who are dismissed from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

Master of Science in Computer Engineering

The Department of Electrical 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 5 years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies of areas of interest. Multi-disciplinary programs such as Systems Engineering, and Biomedical Engineering are also available.

Admission Requirements

The following is in addition to the University Graduate School admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.

2. The GPA, GRE and TOEFL scores above are to be considered minimum requirements for admissions. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

- Recommendation of the advisor and faculty of the Department.
- 2. Certification by the Dean of the School that all requirements of the degree being sought have been completed.

- 3. A GPA of at least 3.0 has been earned for certain courses required by the program.
- 4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.
- Completed the required semester hours of graduate level credit (not more than 6 graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
- Successful defense of an acceptable graduate thesis if required by the program.
- 7. Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.
- 8. Complied with all University policies and regulations.

Thesis Option

A student must complete 24 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master's Thesis. The candidate's supervisory committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000 level course credit and a minimum of 9 hours at the 5000-6000 level in Computer Engineering.

Upon the successful completion of all course work, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research.

Non-Thesis Option

Distance learning students and oncampus students may choose the nonthesis option for their master's degree. The degree requirements differ from the thesis option in two respects. First, the student can petition to be exempt from the thesis requirement, including the 6 credits it entails by substitution of graduate project. Second, the candidate will be required to pass a comprehensive final examination. This

exam will be given by a committee selected by the department. membership of this committee may include faculty and engineers from industry. The exam is intended to test the candidate's general ability in the areas of study and it will be given near the end of the candidate's final semester. A student who fails the exam may not attempt it agian until one semester has elapsed or upon the completion of additional course work prescribed by the examining committee. The exam may be retaken only once.

Computer Engineering Courses

	Engineering Courses
EEL 5718	Computer
	Communication
	Network Engineering
EEL 5725	Digital Systems
	Engineering 1
EEL 5741	Advanced
	Microprocessor
	Systems
EEL 6167	VLSI Design
EEL 6726	Digital Systems
	Engineering Il
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 6681	Fuzzy System Design
EEL 6758	Engineering Design of
	Microprocessor Based
	Operating Systems
EEL 6821	Computer Vision
EEL 5757	Real-Time DSP
	Implementations
EEL 6812	Advances in Neural
	Networks
EEL 6870	Intelligent Computer
	Design
EEL 6751	Wavelet Theory Applied
	, , , ,

Electives Computer Science: (3)
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

to Signal Processing

committee.

Master of Science in Telecommunications and Networking

Master of Science The Telecommunications and Networking degree program is designed to prepare individuals for careers in telecommunications industry. It provides the necessary education of individuals involved with hardware and software network providers, service providers. organizations user government regulators. The Engineering Telecommunications Concentration is appropriate students who want to focus on technical aspects of designing data network software and hardware projects. It also prepares K-12 educators to act as manager/coordinators of telecommunications activities for their school. IT2 offers thesis and non-thesis options for the Master's Degree. The Master is a multidisciplinary program that offers two tracks:

- Systems and Networks: Focuses on technical aspects of the design of data netwroks, software, and hardware. A student must have a bachelor's in computer science, computer, electrical. telecommunications engineering, mathematics, physics or related field.
- Management and Policy: It provides the necessary education for individuals involved with service providers, large user organizations and government regulators. A student must have a hachelor's degree in engineering, information systems, technology or sciences. The Doctoral Program is in Electrical Engineering and Industrial and Systems.

Admissions Requirements

- In addition to the FIU graduate requirements, a student admitted to the program must have a bachelor's degree in a related field from an accredited institution, in the case of foreign students, from an institution recognized in its own country as preparing students to continue studies at the graduate level.
- In addition, foreign students whose native language is not English, must have taken the Test of English as a Second Language

(TOEFL) and obtain a score of at least 550 or better.

3. The GPA, GRE and TOEFL scores above are to be considered minimum requirements admissions.

Graduate Requirements

The degree will be granted when the following criteria has been met:

1. Recommendation of Advisor and faculty of the Department.

Certification by the Dean of the School that all requirements have been met.

3. A GPA of a least 3.0 has been earned for certain courses required in the program. Maintain an overall GPA of at least 3.0. No grade below "C" will be accepted in any course taken to satisfy graduate program requirements.

Completion of all graduate required semester hours of graduate level (not more than 6 with a grade of "B" or better can transferred from other institution).

5. Successfully defense of an acceptable thesis, or individual project required by the program.

Telecommunications and Networking Courses

Network Area:

Telecommunications TCN 6210 Network Analysis and Design

Mobile and Wireless TCN 6270

Networks Mobile Computing

TCN 6275 Engineering Area:

TCN 5xxx

Multimedia Computer Communications Optical Networks TCN 6230

Software Area:

Software Development TCN 5440 for Telecommunications Networks

Modeling and TCN 6420

Performance Evaluation of Telecommunications Networks

Networks Management TCN 6430 and Control Standards

Wireless Information TCN 6450 Systems

Technology Area:

TCN 5010 Telecommunications Technology

Applications TCN 5030 Computer

Communications and Networking

Technologies Telecommunications TCN 5060 Software and

Methodologies TCN 5080 Secure

Telecommunications Transactions

Management Area:

Telecommunications TCN 5640 Enterprise Planning and

Strategy Economics of

TCN 6xxx Telecommunications

Systems

Policy Area: TCN 6820

Telecommunications Industry Developmet

TCN 6880 Telecommunications Public Policy

Development and Standards

Doctor of Philosophy in **Electrical Engineering**

Admission Requirements

The requirements for admission to the doctoral program in Electrical Engineering are:

1. Applicants having a Master's degree in Electrical Engineering from an accredited institution must satisfy the following requirements for admission to the doctoral program:

a. GPA of at least 3.3/4.0 in the master's program

b. GRE verbal plus quantitative of at least 1000 points

c. Three letters of recommendation in the forms provided by the department

d. TOEFL score of at least 550 points for non-English speaking natives.

2. Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

Identification of Research Area

Within 15 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no such professor can be found, the student will be dismissed from the Ph.D. program. Contact the Department for a list of the graduate faculty members and their research interests.

Course Requirements

At least 90 credit hours beyond the bachelor's degree, including a maximum of 30 credit hours of course work, with a minimum grade of "B" in each course, earned in a Master's degree in Electrical Engineering received at FIU or another accredited institution. The credit hours earned towards the Ph.D. program have the following requirements and restrictions:

- 1. At least 12 credits of Ph.D. Course Breadth Requirements.
- At least 12 credits of course work at 6000 level of major field of interest.
- 3. Registration for Advanced Research is allowed only after successfully having passed the written comprehensive examination.
- 4. Registration for EEL 7980 (Research for Doctoral Dissertation) is allowed only after the student is admitted to candidacy. Twenty-four dissertation hours are required.
- 5. At least 30 credit hours of 5000 or 6000 level electrical engineering courses are required. EEL 5935, 6905, 6916, 6932, 6971, 6977, and 7980 are not considered course work for the purpose of this 30 credit hours requirement.
- 6. Fifty percent of the hours accumulated have to be at the 6000 and 7000 level (including EEL 7980).

Residency Requirements

The Ph.D. student must spend at least one academic year in full-time residency. Usually, this will be after being admitted to candidacy: To satisfy the residency requirement for a Ph.D. E.E. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months in residency at the University.

Graduate Supervisory and Research Committee

The student's Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and not later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Guidelines in the Department for more details on how to select the committee members.

Ph.D. Course Breadth Requirements

All potential Ph.D. candidates are required to take two two-course sequences for a total of 12 credits outside of their major area and receive

a grade of "B" or better in each course. The appropriate areas of study are determined by the dissertation advisor. The student must submit to the Graduate Coordinator the sequences selected when he or she signs up for the written part of the Ph.D. E.E. Comprehensive Examination.

Written Comprehensive Examination

To be eligible for the written comprehensive examination, the student must have satisfied the Ph.D. course breadth requirements in his or her area of specialization and in two other areas. The students can take the candidacy examination no earlier than the semester in which all the required coursework for the degree is completed. Failure to do this is causation for dismissal from the Ph.D. program.

The student must pass all three areas of the examination. Failing one area implies failure of the entire examination. The exam must be retaken the next time it is offered. Failing a second time is causation for dismissal from the Ph.D. program.

Consult the Graduate Guidelines available in the department for details on examination procedures, dates, duration, application and grading criteria.

Oral Candidacy Examination

To take the oral part of the candidacy examination, a student must be in good academic standing at the University. The Research Committee must certify that the student is capable of completing all required course work for the degree by the end of the semester in which the candidacy examination is taken and must have passed the written comprehensive examination.

This exam is usually taken within one year after the satisfactory completion of the written comprehensive examination and consists on the presentation and defense of the student's written research proposal.

Admission to Candidacy

Candidacy status indicates that a doctoral student is ready to commence writing the dissertation. A student is admitted to candidacy upon successfully completing all required course work and passing the candidacy examination.

Oral Defense and Submission of Doctoral Dissertation

A dissertation is required of all candidates for the doctoral degree. A proposal must be submitted to the student's Research Committee for approval, following the general guidelines in the "Regulations for Thesis and Dissertation Preparation". A student must enroll for dissertation credits in the semester in which he or she expects to be admitted to candidacy, and must maintain continuous enrollment for not less than 3 credits of EEL 7980 every semester, including Summers, until the semester in which the doctoral degree is awarded. Upon completion of the dissertation, the degree candidate will submit to the Dean of the Graduate School an application for dissertation defense signed by the student's Advisory Committee with sufficient time to allow for publishing a notice in the monthly calendar of dissertation and theses defenses to invite members of the university community to observe the defense.

Following the successful defense of the dissertation, as determined by a majority vote of the student's research committee, the dissertation must be forwarded to the Dean of the College of Engineering and the Dean of the Graduate School for their approval.

All dissertations submitted in fulfillment of requirements for graduate degrees must conform to University guidelines (see "Regulations for Thesis and Dissertation Preparation"). One final, approved copy of the dissertation must be delivered to the Chairperson of the Department of Electrical & Computer Engineering. Library copies must conform to University guidelines, also published in "Regulations for Thesis and Dissertation Preparation".

Financial Aid

Consult the Department for information on research and teaching assistantships available for doctoral students.

Graduate Certificate in Electric Power Engineering and Management (EPEM)

This graduate certificate program is open to all students with a Bachelor's Degrée in electrical engineering, computer engineering, and other closely related fields of study from an accredited institution. The EPEM

program plans to develop managerial talents for a technological environment in the electrical energy industry. The program blends a mix of electrical engineering and management courses. The EPEM program is designed to provide specialization opportunities in Energy Electrical area and Management. The skills, concepts and techniques learned will be related to, but not dependent upon, knowledge of power engineering. The emphasis will be on management and organizational skills appropriate for the electrical energy industry.

To earn a graduate certificate in EPEM, the students must successfully complete the program's core and

elective courses.

The EPEM curriculum consits of 18 credit hours - 6 courses. These courses cover functional areas of electrical power engineering, management and specialized technical and engineering functions

Courses:

EIN 5322 Engineering

Management

ESI 6455 Advanced Engineering Project Management

EIN 5xxx Logistics Engineering

EEL 5270 Electrical Transients in Power Systems

EEL 6261 Power Systems Engineering

EEL 6273 Power Systems Stability and Control

Additional information about this program can be found at: URL: www.eng.fiu.edu/ece E-mail: mohammed@fiu.edu Tel: (305) 348-3040

Fax: (303) 348-3707 Academic Standard

The Department of Electrical and Computer Engineering requires that students receive no grade less than a "C", with an overall GPA of 3.0 in order to be awarded the graduate certificate.

Course Descriptions

Definition of Prefixes

EEL - Engineering: Electrical

EEL 5071 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network. Prerequisite: ELR 4202 or Permission of the instructor. (F)

EEL 5085 Bioradiation Engineering: Detection and Measurement (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Application in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or Permission of the instructor, (S)

EEL 5145 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140 or Permission of the instructor. (S, alternating years).

EEL 5171 Advanced Systems Theory (3). State-space representations for continuous and discrete-time systems, controllability and observability, polezero allocation, Lyapunov stability theorem, state observers. Prerequisites: EEL 3657 and graduate level or advanced senior standing or Permission of the instructor. (S)

EEL 5270 Electrical Transients in Power Systems (3). Traveling waves on transmission and multi-conductor systems, successive reflections, distributed parameter systems, transients on integrated power systems. Prereqnisite: EEL 4213 or Permission of the 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 the instructor. (F)

EEL 5348 Digital Electronics (3). Analysis and design of logic gates using saturated and non-saturating elements, transmission gates, interfacing of logic families, bistable circuits, A/D and D/A converters. Prerequisite: EEL 4304.

EEL 5352 Bipolar Junction Transistors (3). Bipolar junction transistor physics. Semiconductor bulk properties at equilibrium and nonequilibrium. PN junction theory. Theory of the bipolar junction transistor. Prerequisite: EEL 3396 or Permission of the 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 the 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 the instructor. (F, every third year)

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 the instructor. (F, every third year)

EEL 5437 Microwave Engineering (3). Microwave guides. Microwave tubes. Microwave solid state devices. Microwave integrated circuits, Microwave enclosures. Prerequisite: EEL 4410 or Permission of the instructor. (S, every third year)

EEL 5482 Fields and Waves Engineering (3). Concepts and theorems in fields and waves, analytic techniques for guided waves, radiation and scattering, numerical techniques for analysis of electrical devices using digital computers. Prerequisite: EEL 4410 or Permission of the instructor.

EEL 5500 Digital Communication Systems I (3). This course will consider most important aspects of digital communication systems such as noise related subjects, random signals, linear systems, and baseband digital modulation and multiplexing. Prerequisites: EEL 3135, EEL 3514, EEL 3112 or Permission of the instructor.

EEL 5501 Digital Communication Systems I1 (3). This course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisite: EEL 5500 or Permission of the instructor. (F)

EEL 5543 Random Signal Principles (3). Noise, random processes, correlation, spectral analysis in the analysis and design of communication systems. Optimization techniques; min-imum

- EEL 5563 Introduction to Optical Fibers (3). Use of fiber optics as a communication medium. Principles of fiber optics; mode theory; transmitters, modulators, sensors, detectors and demodulators; fiber data links. Prerequisites: EEL 3514, EEL 4314 and EEL 4410 or Permission of the instructor. (F, alternating years)
- EEL 5653 Digital Control Systems (3). Analysis and design of digital control systems. Z-transforms, analysis and control of discrete-time systems, digital control of analog systems. Several digital controller design methods. Computer simulation and microprocessor implementation. Prerequisite: EEL 3657. Corequisite: EEL 4611 or Permission of the instructor. (SS)
- EEL 5718 Computer-Communication Network Engineering (3). System engineering synthesis, analysis, and evaluation of computer-communication networks. Network design, routing and flow control, telecommunication traffic engineering, transmission, switching, etc. Prerequisite: EEL 5501 or Permission of the instructor. (SS)
- EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4709 or Permission of the instructor.
- EEL 5725 Digital Systems Engineering 1 (3). This course involves systematic studies of Fault Tolerant Digital Systems, VHDL and VERILOG based dynamic digital system designs, and system implementations with CPLDS, FPGAS, ASICS. Prerequisites: EEL 4304, EEL 4746 or equivalent or Permission of the instructor. (F)
- EEL 5741 Advanced Microprocessor Systems (3). Interfacing of various microprocessors together. Concepts of master-slave systems, virtual memory and I/O control techniques. Digital system evaluation and optimization. Pererequisite: EEL 4746 or Permission of the instructor. (SS, alternating years)
- EEL 5757 Real-Time Digital Signal Processing Implementations (3). Techniques for the implementation of Digial Signal Processing (DSP) algorithms in dedicated processors, for

- assessing real-time performance of audio, control, and communication systems. Prerequisite: EEL 3135 or equivalent.
- EEL 5810 Neural Networks-Algorithms and Applications (3). Various artificial neural networks and their training algorithms will be introduced. Their applications to electrical and computer engineering fields will be also covered. Prerequisite: MAC 3312. (SS)
- EEL 5820 Digital Image Processing (3). Image Fundamentals, Image Transforms, Image Enhancement, Edge Detection, Image Segmentation, Texture Analysis, Image Restoration, and Image Compression. Prerequisite: EEL 3135 and knowledge of any programming language (FORTRAN, Pascal, C).
- EEL 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of instructor.
- EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and diffusion eddy current type field problems and associated phenomena in electrical devices. Emphasis on implementation and applications to practical problems. Prerequisites: EEL 4213, MAP 3302 or equivalent or Permission of the instructor. (SS)
- EEL 6075 Biosignal Processing 1 (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: ELR 4202 and EEL 6505 or Permission of the instructor. (F)
- EEL 6076 Blosignal Processing II (3). Engineering design of advances systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisite: EEL 6075 or Permission of the instructor. (S)
- EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop eqs and node pair

- eqs., state space networks, computer solutions. Prerequisite: EEL 3112 and FORTRAN or Permission of the instructor. (S, every third year)
- EEL 6167 VLSI Design (3). Study of VLSI Design concepts in MOS/CMOS environment, CAD techniques, VLSI array processors and wavefront array processors, and implementation of array processors. Prerequisites: EEL 5741, EEL 4314. (SS, alternating years)
- EEL 6216 Application of Intelligent Systems to Power System Operations (3). Power system security assessment using intelligence systems techniques such as pattern recognition, expert systems, and neural networks. Class projects include applying 1S to load forecasting, alarm processing. Perequisites: EEL 4214, EEL 6273. (SS. alternating years)
- EEL 6219 Electric Power Quality (3). Modeling of networks under non-sinusodial conditions, loads which may cause power quality problems, analysis of harmonics, flickers, impulses, standards, power quality improvement methods. Prerequisite: EEL 4213 or permission of the instructor.
- EEL 6235 Motor Drives Control (3). Switched, resonant and bidirectional power supplies, DC motors: single, three phase and chopper drives. AC motors: voltage, current and frequency control. Closed loop control. Prerequisites: EEL 4213, EEL 3303, EEL 3657. (SS, alternating years)
- 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 the instructor. (F, every third year)
- EEL 6254 Power Systems Reliability (3). Expansion planning, load forecasting, reliability and availability application to generation planning, bulk power supply systems, generation system operation and production costing analysis. Prerequisite: EEL 4215 or Permission of the instructor.(S)
- EEL 6261 Power Systems Engineerlng (3). Steady-state analysis, fault studies, load flow, dynamic and transient performance, on-line control, practical applications. Prerequisite: EEL 4215 or Permission of the instructor. (SS, every third year)

EEL 6273 Power System Stability and Control (3). Direct methods for system stability, computer analysis of large scale models, Lyapunov stability, longer term stability, security analysis, MW-frequency control, isolated and multiple area control. Prerequisites: EEL 4215 and FORTRAN or Permission of the instructor. (S)

EEL 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics network. Advanced analysis, modeling and computer simulation of op amps. Analog design techniques and practical examples are covered. Prerequisite: EEL 4314 or Permission of the instructor. (F, alternating years)

EEL 6312 Advanced Electronic Systems II (3). Study of linear properties of electronic systems and design of fault tolerant systems using A/D and D/A and control algorithms. Prerequisite: EEL 6311 or Permission of the instructor. (S, alternating years)

EEL 6315 Advanced Solid State Electronics (3). IC technologies, properties and fabrication concepts. Bipolar, MOS, 12L, CCD, bubble technologies. lon implantation characteristics. Lithography techniques. Prerequisite: EEL 3396, EEL 4304 or Permission of the instructor. (SS, every third year)

EEL 6332 Thin Film Engineering (3). Thin films used in microelectronics and optoelectronics; deposition methods; evolution of film microstructure; film growth modeling; introduction to film analysis. Prerequisite: EEL 3396. (SS, alternating years)

EEL 6335 Electrical Transport in Semiconductors I (3). This course focuses on carrier transport fundamentals, beginning at the microscopic level and progressing to the macroscopic effects relevant to semiconductor devices. Prerequisites: EEL 5352, PHY 4604. (F. alternating years)

EEL 6337 Electrical Transport In Semiconductors II (3). This course focuses on quantum phenomena occurring in carrier transport in modern small-size semiconductor devices. Prerequisite: EEL 6335 (Note: PHY 4604 is a prerequisite for EEL 6335).

EEL 6395 Applied Superconductivity (3). Covers the basic physical properties of superconductors. Superconducting devices: sauids, memory & logic elements. Emphasis is placed on applications of superconductors. Prerequisites: EEL 3396 and EEL 4410. Corequisite: EEL 6315, EEL 6397 or Permission of the instructor.(S)

EEL 6397 Semiconductor Device Theory (3). Device physics and modeling of GaAs FETS. GaAs analog and digital integrated circuits. Modulation doped field effect transistors. Heterojunction bipolar transistor theory. Prerequisite: EEL 3396. (S)

EEL 6399C Electronic Properties of Materials (3). Properties of materials from which electronic components and structures are fabricated; electrical conduction in metals, semiconductors and insulators; thermal; magnetic; optical. Prerequisite: EEL 3396. (F, alternating years)

EEL 6443 Electro-Optical Devices and Systems (3). Introduction to optical devices and systems such as solid state laser systems, their applications in industry. Also holography, linear and non-linear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEL 4314. Corequisite: EEL 5563 or Permission of the instructor, (S. every third year)

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic wave guide. optical device sources, photo-detector, receiver and transmitter designs. Prerequisite: EEL 5501 or Permission of the instructor. (S, every third year)

EEL 6463 Antenna Theory and Design (3). Radiation patterns of dipoles and loops, array analysis and synthesis, self-impedance and mutual impedance, frequency independent antennas and antenna miniaturization, and reflectors and lens antenna. Prerequisite: EEL 4410. (S, alternating years)

EEL 6505C Digital Signal Processing (3). Treatment of digital signal and system characteristics: Z transforms and FFT theory. Real time and correlation functions. Multidimensional signal processing and digital filtering. Prerequisites: EEL 4510, EEL 4314, EEL 5653 or Permission of the instructor. (F)

EEL 6509 Digital Communications by Satellite (3). This course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisite: EEL 5501 or Permission of the instructor. (S)

EEL 6572 Pictorial Information Systems Design (3). Picture input device design, pictorial information systems hardware, picture processor design, picture storage system design, pictorial database system design, picture communication interface design, and engineering applications. Prerequisites: EEL 4709 or CDA 4400. (SS)

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDLC. Real time switching techniques. Microprocessor based network topologies. Busing schemes such as VME, MULTIB, RS232. Prerequisites: EEL 4746 and EEL 4314 or Permission of the instructor. (F)

EEL 6614 Modern Control Theory I (3). Graduate level treatment of modem control systems. Optimal control of feedback systems. Performance measures, Pontryagin's minimum principle, dynamic programming, numerical techniques. Prerequisite: EEL 5171 or Permission of the instructor. (F, alternating years)

EEL 6615 Modern Control Theory II (3). Graduate level course in Stochastic control. Stochastic processes, linear estimation, Kalman filtering techniques in state estimation. Design of feedback control in the presence of noise. Prerequisite: EEL 6614 or Permission of the instructor. (S, alternating years)

EEL 6673 Identification Theory (3). System modeling, off-line methods, online methods, order and structure determination, diagnostic tests and model validation. Prerequisite: EEL 5171. (F, alternating years)

EEL 6681 Fuzzy Systems Design (3). Applications of fuzzy theory to develop design methodologies for various engineering systems. Emphasis will be on systems for pattern recognition, model identification, and automatic control. Prerequisite: Permis-sion of the instructor.

EEL 6726 Digital Systems Engineering II (3). Analysis and design of time shared digital electronic systems. Artificial intelligence and automation. Robotics and remote control systems. Advanced digital instrumentation and testing. Prerequisite: EEL 5725 or

Permission of the instructor. (S, every third year)

EEL 6751 Wavelet Theory Applied to Signal Processing (3). Application of wavelet theory to transient and nonstationary signal processing; compression and noise reduction of signals, singularity and edge detection, and time-frequency analysis. Prerequisiste: EEL 3135 or equivalent.

EEL 6758 Engineering Design of Microprocessor Based Operating Systems (3). Hardware microprocessor based systems, BIOS (basic input and output), Kernel partitions, memory, stack organization and physical design of operating systems. Prerequisites: EEL 4709 and EEL 4746 or Permission of the instructor. (S. every third year)

EEL 6787 Network Security (3). Security Requirements, Network Number Theory, Steganogrpahy. Encryption Design Principles and Algorithms, Message Authentication and Digital Signature Principle and Designs, Network System Security Design. Prerequisite: Permission of Instructor.

EEL 6812 Advances in Neural Networks (3). Latest concepts in artificial neural networks research and newly developed applications. Implementation, convergence in learning algorithms, accuracy refinement, and optimal structure of neural networks. Engineering applications. Prerequisite: EEL 5810. (F, alternating years)

EEL 6816 Electronic Neural Systems (3). This course bridges electronics to the understanding of neurobiologically inspired models. Biological tasks and neural computations are studied in the context of networks and processing elements. Prerequisites: Permission of Instructor.

EEL 6821 Computer Vision (3). Image formation and image properties, Radiance and irradiance, introduction to Brain Topography, Color Vision, visual machinery of the brain, statistical pattern classification and decision functions, the eigensystem and its computational aspects, stereo vision, motion vision, size and orientation independence Prerequisite: EEL 5820. (S)

EEL 6825 Patten Recognition (3). Pattern recognition techniques via computer: decision functions, optimum decision criteria, training algorithms, unsupervised learning. feature

extraction, data reduction, machine intelligence. Prerequisites: EEL 5543 or Permission of Instructor.

EEL 6836 Computer Visualization of Brain Electrical Activity techniques for visualization of brain electrical activity. Analysis of the origin of this activity as it relates to its measurement and visualization through computerized systems. Prerequisites: EEL 4510 or permission of instructor.

EEL 6870 Intelligent Computer Design (3). The course involves self testing and correcting type of modular computer system development. Also relating to Artificial concepts Intelligence and Expert systems will be intergrated into the computer system design. Prerequisite: EEL 4709. (F, alternating years)

EEL 6905 Individual Work (1-4). Special problems or projects selected by the students and a faculty member. The student conducts the project with a minimum of supervision. Consent of Department Chairperson and Faculty Advisor.

EEL 6916 Graduate Project (1-3). Independent research work culminating in a professional practice-oriented report for the requirements of the nonthesis option of the M.S. degree project. Prerequisites: Fifteen graduate credits and approved project plan.

EEL 6931 Special Topics in Electrical and Computer Engineering (1-3). Course covers advanced topics not in existing graduate courses in electrical and computer engineering. Prerequisite: Permission of the instructor.

EEL 6932 Graduate Seminar (1). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Consent of graduate advisor.

EEL 6971 Research Master's Thesis (1-6). The student, following the option of the Master's Degree with thesis, should work for his/her thesis through this course. Prerequisite: Graduate standing.

EEL 6977 Extended Thesis Research (0). For Graduate research students who have completed their sequence of thesis credits, but must register for a

course to remain on graduate student status.

EEL 7910 Advanced Research (1-6). Advanced research credits under the supervision of the disseration advisor. Prerequisite: Completion of the written comprehensive examination.

EEL 7980 Ph.D. Dissertation (1-12). Doctoral research leading to Ph.D. Electrical Engineering Dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

TCN 5010 Telecommunications Technology and Applications (3). An in-depth introduction to voice and data networks, signaling and modulation, multiplexing, frequency band and propagation characteristics, special analysis of signals, and traffic analysis. Prerequisite: Permission of the instructor.

TCN 5030 Computer Communications and Networking Technologies (3). Teaches the dynamics related to computer communications, how computers are grouped together to form networks, various networking implementation strategies, and current technologies. Prerequisite: Permission of the instructor.

5060 Telecommunications TCN Software and Methodologies (3). A high-level look into network architectures and distributed client-server models, applications. network software platforms and advanced techniques for programs specifications through implementation. Prerequisites: TCN 5030 or permission of the instructor.

TCN 5080 Secure Telecommunications Transactions (3). Telecom and information security issues such as: digital signatures, cryptography as applied to telecom transactions. network policing, nested authentication, and improving system trust. Prerequisites: TCN 5030 of permission of the instructor.

TCN 5155 Wireless Communications with Multimedia Applications (3). Overview of wireless communications systems; interference, blocking, spectral effeciency: performance of digital modulation in presence of fading; diversity techniques; and multimedia applications. Prerequisite: EEL 3514

TCN 5440 Software Development for Telecommunication Networks (3). Focuses on the aspects, tools, and techniques of developing software applications for telecommunications networks. Prerequisites: TCN 5030 or equivalent.

TCN 5640 Telecommunications Enterprise Planning and Strategy (3). Methodologies for re-engineering, project management, strateetic planning, change management, RFPs, and life-cycle management within the telecommunications and IT arena. Perrequisite: Permission of the instructor.

TCN 6210 Telecommunications
Network Analysis and Design (3). Asystematic, analytic and descriptive
approach to the evaluation of
telecommunications networks, networking principles, and control and quality
of service. Prerequisite: Permission of
the instructor.

TCN 6230 Optical Networks (3). Enabling technologies, multiplexing techniques, WDM, broadcast networks, wavelength-routed networks, network architectures, protocols, network algorithms, and device-network interfaces. Prerequisites: TCN 5030 or equivalent.

TCN 6270 Mobile and Wireless Networks (3). Techniques in the design and operation of wireless networks; LANs, MANs, and WANs; analytical models; application of traffic and mobility models; mobility control, and wireless ATM. Prerequisites: TCN 5030 or equivalent.

TCN 6275 Mobile Computing (3). Enabling technologies and impediments of mobile computing. It includes mobile architectural design, mobile-aware and transparent adaptation, mobile data access and file systems, and ad-hoc networks. Prerequisite: Permission of the instructor.

TCN 6420 Modeling and Performance Evaluation of Telecommunications Networks (3). Covers methods and research issues in the models and performance evaluation of high-speed and cellular networks. Focuses on the tools from Markov queues, queuing networks theory and applications. Prerequisites: TCN 5030 or equivalent.

TCN 6430 Networks Management and Control Standards (3). Protocols for management of telecom networks, including Simple Network Management Protocol and Common

Management Information Protocol. Extension of protocols to optimize network performance. Prerequisites: TCN 5030 or equivalent.

TCN 6450 Wireless Information
Systems (3). Enabling technologies and
impediments of wireless information
systems. Focuses on software
architectures, and information and
location management in the wireless
environment. Prerequisite: Permission
of the instructor.

TCN 6820 Industrial Development of Telecommunications (3). This course, from a management perspective, addresses the evolution of the telecom industry, the impact it has on reshaping our world, and the importance of management decisions in telecom.

TCN 6880 Telecommunications
Public Policy
Standards (3). A concept-oriented
examination of the domestic and
international relecommunications
policy processes and standards setting
environment. Prerequisite: Permission
of the instructor.

TCN 6XXX Multimedia Computer Communications (3). Covers multimedia computer communications technologies including, multimedia over networks, videoconferencing, telephone, compression algorithms and techniques for transmitting data efficiently. Perequisites: TCN 6210 or Permission of the instructor.

TPA 5213 Performing Arts Technology (2). Applications of structural, mechanical, electrical and electronic technologies to prepare performing arts students for management and production roles. Includes basic circuits and NEC codes, control systems. Prerequisite: Permission of graduate advisor.

Industrial and Systems Engineering

Shih-Ming Lee, Associate Professor, Chairperson

Alan L. Carsrud, Clinical Professor Martha A. Centeno, Associate Professor

Chin-Sheng Chen, Professor Joe Chow, Associate Professor Ronald Giachetti, Assistant Professor Sushil Gupta, Professor Gordon R. Hopkins, Professor

Khokiat Kengskool, Associate Professor

Richard Linn, Associate Professor Kia Makki, Professor Marc L. Resnick, Associate Professor Mario Sanchez, Lecturer and Advisor

Master of Science in Industrial Engineering

Marc Resnick, Program Director

The Master of Science program in Industrial Engineering emphasizes research, as well as course work, and the graduate degree is intended to prepare students for the professional practice of Industrial Engineering.

Admission Requirements

The applicant must meet all University Graduate School admission requirements including:

- 1. Have a "B" average in upper level undergraduate work.
- 2. Have a score of 1,000 on the Graduate Record Examination (verbal and quantitative combined).
- 3. Foreign students must take the test of English as a foreign language (TOEFL) and obtain a score of 550 or better.

In addition, the applicant must have a BS in engineering from an accredited institution.

Applicants not meeting the above requirements may be considered under the following circumstances:

- 1. Applicants with degrees from disciplines other than engineering may be required to take remedial courses.
- 2. Waiver under the 10% rule may be requested if the minimum GPA or GRE are not met. Applicants admitted under the 10% exception rule will be placed on probation and will be evaluated at the end of 9 credit hours for continuation.

Available Areas of Concentration

Human Factors/Ergonomics Integrated Manufacturing Operations Research/Systems Engineering

Course Requirements

Each MSIE student is required to take a minimum of 30 graduate credit hours to complete the degree program. All students must take the Graduate Seminar in their first semester. Each student is required to select a concentration area as part of the seminar course. Prerequisite and graduate core courses for each concentration area are specified in the following sections. Elective graduate courses are selected by the student with the approval of the thesis advisory committee to support thesis work.

Human Factors/Ergonomics Area

Human Factors is concerned with the design of jobs, consumer products, computer interfaces, machines, machine operations, and work environments, so that they are fully compatible with human characteristics, capacities, limitations and idiosyncrasies. Human Factors practitioners, operating within industrial, commercial, governmental and health organizations are called upon to apply existing human performance knowledge to the design or modification of equipment, and also to generate new experimental data equipment required for design. Accordingly, the MSIE concentration in Human Factors emphasizes both existing content areas and detailed experimental research methodology. Students in this area must have the following prerequisite courses:

EGN 3123 CAD or equivalent EIN 3235 Evaluation of **Engineering Data** or equivalent EIN 4243 **Human Factors** EIN 4314 Work Design and

and must take the following core courses:

EIN 6248 Advanced Ergonomics 3 Usability Engineering EIN 5256 3 One advanced statistics course 3 6 EIN 6971 Master's Thesis Elective graduate courses 15

Ergonomics

Integrated Manufacturing Area

The Integrated Manufacturing area reflects a broad interpretation of the role of a manufacturing engineer. This concentration is developed to include product and process design, production planning and scheduling, material flows control, product quality, facilities planning, materials handling, material selection, and manufacturing processes. It emphasizes manufacturing automation, information modeling, and computer based integration of the above manufacturing functions design, planning, and control modern manufacturing systems. Students in this area must have the following prerequisite courses: EIN 3390 Manufacturing

Processes EGN 3123 CAD ESI 3314 Generic Models I or equivalent EGN 3365 Materials in Engineering and must take the following core courses: EIN 6398 ·Advanced Manufacturing Process Engineering 3 EIN 6392 Product Design for Manufacturability and Automation 3 ESI 6316 Applications of OR in Manufacturing EIN 6971 Master's Thesis 6 Elective graduate courses 15

Operations Research/Systems **Engineering Area**

Operations Research deals with the development and application quantitative techniques to model, analyze, and design complex systems. Students in this area must have the following prerequisite courses: EIN 3235 Evaluation of

Engineering Data or equivalent EIN 3354 Engineering Economy

ESI 3523

Simulation Models of Industrial Systems or equivalent

3

3

3

and must take the following core courses:

ESI 6316 Applications of OR in Manufacturing ESI 6524 Applied Industrial Systems Simulation One advanced statistics course

EIN 6971 Master's Thesis Elective graduate courses

Information Systems **Engineering Track**

Ronald Giachetti, Program Director

The Information Systems Engineering track is tailored for systems engineers in both manufacturing and service industries. It is an interdisciplinary and terminal degree program with emphasis on information systems analysis, design and implementation for various organizations by applying integrating information technologies. Students will be exposed to a full range of systems engineering functions and will be equipped with the knowledge and skills required to design, operate, and improve the information systems of today and tomorrow.

Admission Requirements

Admission to the Information Systems Track is highly competitive. student must meet all University Graduate School admission requirements. In addition, he or she must have a Bachelor of Science degree in engineering or a closely related field from an accredited institution.

Applicants who do not meet the above criteria may be evaluated for provisional admission. Applicants may also be evaluated for admission under the 10% policy waiver.

Program Requirements

Prior to the required graduate curriculum, students in the Information Systems Engineering track must have adequate knowledge in the following subjects:

- Programming
- HTML

Application Tools (e.g. spreadsheets, database management systmes)

Students without proper background will be required to take courses as needed.

Program of Study

The Information Systems Engineering track requires 30 credit hours. The program of study for each student will be tailored to fit the student's goal, and it must be approved by the program coordinator and the student's advisory committee. The student must elect either a Thesis Option or a Project Option. The Thesis Option requires 24 credits of course work and 6 credits of EIN 6971. The Project Option requires 27 credits of course work and 3 credits of EIN 6916.

Students in both options must take at least one course from each of the following subject areas:

- System Analysis & Design Programming Techniques
- Database Design
- Enterprise Systems Engineering
- Network & Communications

Usability

By taking one course from each of the above subject areas, the student is expected to have the breadth of exposure to all information systems engineering activities and to acquire a set of solution techniques for modeling, evaluation. implementation. operations of an information system. The remaining credit hours are reserved for the student to build an in-depth understanding of a selected subject area by taking technical elective courses.

Listings of Recommended Courses

The courses listed below for each of the subject areas represent recom-mended courses only. Other graduate courses within each subject area may be taken to meet the program requirements upon approval of the student's advisory committee. Any elective course must fulfill the purpose of the Information Systems Enginee-ring track, which is designed to ensure a breadth of information systems engineering knowledge as well as an in-depth exposure to a selected area.

System Analysis & Design

Advanced Industrial EIN 6117 Information Systems

Programming Techniques

ESI 5603 Advanced Software Tools for ISE COP 6556 Semantics of Programming Languages

Database Design

Engineering Data ESI 5602 Representation and Modeling ESI 6601 Data Warehousing and Mining Advanced Topics in COP 6545 Database

Usability Engineering

Usability Engineering EIN 5256 Usability Engineering EIN 6259 for E-commerce

Management

Enterprise Systems Engineering

EIN 5346	Logistic Engineering
EIN 6133	Enterprise Engineering
EIN 6132	Collaborative
	Engineering
EGN 5435	Product Modeling
EIN 6392	Product Design for

Manufacturability and

Automation Advanced Topics in EIN 6397 Manufacturing

Automation

ESI 6524 Applied Industrial System Simulation

Network and Communications EEL 5524 Stat. Comm. Theory EEL 5718 Comp. Comm. Network

Engineering EEL 6141 Advanced Network Analysis

EEL 6444 Optical Fiber Communications Systems

Data Communications EEL 6575 Engineering

TCN 6450 Wireless Information Systems

Manufacturing Engineering Track

Chin-Sheng Chen, Program Director

The track is tailored for engineers in the manufacturing industry or those entering the industry. It is an interdisciplinary and terminal degree program with emphasis on practices and hands-on experience. Students will be exposed to a full range of manufacturing engineering functions and will be equipped with the knowledge and skills required to design, operate, and improve manufacturing systems of today and tomorrow.

Admission requirements

The student must meet all University Graduate School admission requirements. In addition, he or she must have a Bachelor of Science degree in engineering or a closely related field from an accredited institution.

Applicants who do not meet the above criteria, may be evaluated for provisional admission. Applicants may also be evaluated for admission under the 10% policy waiver.

Program requirements

The Manufacturing Engineering Program requires 27 credit hours of course work plus a 3 credit Master's Project (EGN 6971). The program of study must include Graduate Seminar (0 credit hour), EGN 6437 Manufacturing Systems Design (3 credit hours) and 24 additional credit hours of graduatelevel courses. The program of study for each student will be tailored to fit the student's goals and approved by the program coordinator and the student's project advisory committee. However, it must consist of at least one course taken from each of the following subject areas:

1) product design,

- industrial materials and manufacturing processes,
- 3) production planning and control,
- 4) quality,
- manufacturing systems techniques, and
- manufacturing operations management

By taking one course from each of the above subject areas, the student is expected to have the breadth of exposure to all manufacturing engineering activities and to acquire set of solution techniques for modeling, evaluation, implementation, and operations of a manufacturing system. The remaining two courses are elective and reserved for the student to build an indepth understanding of a selected engineering subject area.

Listings of recommended courses

The courses listed below for each of the subject areas represent recommended courses only. The student may elect other non-listed graduate courses within each subject area to meet the program requirements. However, he/she must first consult with the academic advisor concerning deviations from these recommendations. Any elective course must fulfill the purpose of the Manufacturing Engineering Program, which is designed to ensure a breadth of manufacturing knowledge as well as an in-depth exposure to the fundamentals of manufacturing engineering in a selected area.

Product Design

EIN	0392

Product Design for Manufacturability and Automation

EGN 5435 Product Modeling

Industrial Materials and Manufacturing Process

Manufacturing Process		
EGN 5367	Industrial Materials	
FIN 6398	Advanced Manufact	

EIN 6398 Advanced Manufacturing Process Engineering EIN 6436 Manufacturing Process

Design

Production Planning and Control

EIN 6336 Advanced Production Planning & Scheduling

Quality FIN 5332

EIN 5332 Quality Engineering STA 5676 Reliability Engineering

Management

Manufacturing Operations Management

ACG 6026 Accounting for Managers EIN 5322 Engineering

counting for Test (GMAT); and work expanses 4. In addition to the above the state of the state o

EIN 5359 Industrial Financial Decisions
FIN 6428 Corporate Finance

MAN 6245 Organizational Behavior
MAN 6805 Entrepreneurship

Manufacturing Systems Techniques

EIN 6117 Advanced Industrial Information Systems

ESI 6316 Application of OR in Manufacturing

ESI 6524 Applied Industrial Systems Simulation

Engineering Management

Shih-Ming Lee, Program Director

Master of Science in Engineering Management

The Master of Science program in Engineering Management (MSEM) develops future leaders of business and industry for a technological environment. The program blends a carefully chosen mix of engineering courses offered by the College of Engineering and business courses offered by the College of Business Administration.

The MSEM program is designed to offer one of the most appropriate management degrees for individuals who would like to advance to managerial positions and wish to acquire the necessary knowledge and skills for success. The MSEM curriculum integrates theoretical concepts, case studies and computer software in a simulated business environment where students are challenged to make decisions that have organizational wide impact. Students in the program will have the opportunity to use and learn contemporary software and specialize in a chosen filed of study.

Admission Policies

 Prospective students are expected to meet all admission requirements of the University Graduate School.

2. The applicant to the MSEM program must have a bachelor's degree in engineering or a closely related field from an accredited institution.

3. The admissions committee, in making the admission decision, will consider the undergraduate GPA in upper division coursework; score on Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT); and work experience.

4. In addition to the above criteria, foreign students whose native language is not English must take the Test of

English as a Foreign Language (TOEFL) and obtain a score of 550 or better.

The GRE/GMAT, TOEFL, and GPA are considered as minimum requirements for admissions. Students' backgrounds shall be analyzed to determine if there is a need for remedial courses in addition to the required curriculum. Students are also expected to comply with all course prerequisites.

Degree Requirements

The basic program will consist of 36 credit hours as follows: 9 credit hours of engineering management, 9 credit hours of business, 15 credit hours of advised electives and a Master's project (3 credit hours).

Engineering Management Core

Students in the Engineering Management program are required to take three courses (9 credit hours) to build engineering/technology foundation that includes topics in quality management, project management, information systems, logistics, entrepreneurship, optimization, manufacturing, and engineering economy. The suggested list of courses is given below:

EIN 5322 Engineering 3 Management EIN 5226 Total Quality Management For 3 Engineers EIN 6117 Advanced Industrial 3 Information Systems ESI 6455 Advanced Engineering Project Management EGN 6437 Manufacturing Systems 3 Design Advanced Engineering EIN 6357 3 Economy Applications of OR in ESI 6316 3 Manufacturing Logistics Engineering 3 EIN 5346 EIN 5xxx Engineering Entrepreneurship 3

Enterprise Engineering 3

Telecommunications

Management

Business Core Courses

EIN 6133

EIN 6xxx

Students in the program are required to take three courses (9 credit hours) to gain fundamental knowledge about management functions that includes topics in accounting, finance, organizational behavior, marketing, and production. The suggested list of courses is given below:

ACG 6026 Accounting for Managers

3

3

FIN 6428	Corporate Finance 3	
MAN 6209	Organization Design	
	and Behavior 3	
MAR 6805	Marketing Management 3	
ISM 6205	Database Management 3	
MAN 6830	Organization	
	Information Systems 3	
QMB 6357C	Business Analysis for	
	Decision Making 3	
MAN 6501	Operations Management 3	
EIN 5359	Industrial Financial	
	Decisions 3	

Engineering Electives

Students in the program are required to take five courses (15 credit hours) from engineering or closely related subjects of interest, for example, 'telecommunications', 'biomedical', 'manufacturing', etc. These engineering elective courses will broaden and deepen the student's understanding of technology development. The elective courses require approval from the student's advisory committee.

Master's Project

Students in the program are required to conduct a Master's project (3 credit hours) to complete the degree program. Students with extensive industrial project experience may request to replace the project requirement with an additional elective course.

Grades and Credits

Students are required to maintain a GPA of 3.0. Courses with a grade below 'C' will not be counted toward the Master of Science degree in Engineering Management.

Transfer Credit

Students may receive permission to transfer up to a maximum of six semester credits provided that: (1) the courses were taken at the graduate level at an accredited college or university: (2) with a grade of 'B' or better; (3) the courses were judged relevant by the student's advisory committee; (4) the credits were not used toward another degree; and (5) the credits were completed within seven years immediately preceding the awarding of the degree. Credits are transferable until the student has earned 12 semester hours in the Engineering Management program.

Time Limit

All works applicable to the Master of Science degree in Engineering Management, including transfer credits, must be completed within seven years immediately preceding the awarding of the degree.

NOTE: Please see the section of the College of Business Administration for description of the Business core courses.

Technology Management

Shih-Ming Lee, Program Director

Master of Science in Technology Management

The Master of Science in Technology Management (MSTM) is interdisciplinary program emphasizing partnership between industry and academia. It provides an integrated curriculum in technology and business administration. High-tech companies face significant challenges as they try to maintain an advantage in a global economy that offers great business opportunities. Achieving and managing the continuous growth of their core technology competencies and product lines are among the challenges that these companies face. To meet these challenges, managers must possess two sets of competencies: technical knowledge and management

The MSTM program can greatly help the engineers and scientists who are moving into management positions and recognize that advanced technical knowledge must be coupled with strong communication and administrative skills. It also provides useful tools for managers and business leaders who recognize that an understanding of issues in specific technology fields is critical in maintaining a competitive advantage in a global market.

Admission Requirements

The student admitted to this program must meet all University graduate admission requirements. In addition:

- A student seeking admission into the graduate program must have a bachelor's degree in engineering, technology, sciences, or a closely related field from an accredited institution.
- . The admissions committee, in making the admission decision, will consider the undergraduate GPA in upper division coursework; score on Graduate Record Examination (GRE), or Graduate Management Admission.

sion Test (GMAT); and work experience.

 In addition to the above criteria, foreign students whose native language is not English must score at least 550 (or 213 on computerized exam) in the Test of English as a Foreign Language (TOEFL).

The GRE/GMAT, TOEFL, and GPA are considered as minimum requirements for admissions. Students' academic backgrounds shall be analyzed to determine if there is a need for remedial courses in addition to the required curriculum. Students are also expected to comply with all course prerequisites.

Degree Requirements

Students in MSTM program are required to take 33 credits of graduate level courses and successfully complete a comprehensive project (3 credits). Included in the program are 9 credits of Technology Management core courses; 9 credits of Management Function courses; 12 credits in the technology concentration; 3 credits in a technology elective course; and a Master's project, which requires a comprehensive study on a critical issue in Technology Management. All technology concentration courses should be selected from one area, such as Information Technology, Telecommunications, and Biomedical Technology.

Technology Management Core Courses: (9 credits, select 3 courses)

EIN 5xxx Management of Innovation and Technology EIN 6xxx Technology Policies and Strategies Technology EIN 6xxx Entrepreneurship EIN 5106 Regulatory Aspects of Engineering EIN 6133 Enterprise Engineering EIN 6357 Advanced Engineering Economy ESI 6455 Advanced Engineering Project Management

Management Function Courses: (9 credits, select 3 courses)

Accounting for

FIN 6428 Corporate Finance
MAN 6209 Organization Design
and Behavior

ACG 6026

MAN 6501 Operations Management MAN 6830 Organization

Information Systems

MAR 6805 Marketing Management in Global Environment

Master's Project (3 credits)

Students in the proposed program are required to conduct a Master's project (3 credit hours) to complete the degree Students with extensive industrial project experience may request to replace the project requirement with an additional elective course.

Technology Concentration: (12 credits, select 4 courses within the

,		
Information Technology		
COP 6545	Advanced Topics in	
	Database Management	
ESI 5602	Engineering Data	
	Representation and	
	Modeling	
EIN 5603	Advanced Software	
	Tools for ISE	
EIN 6117	Advanced Industrial	
	Information Systems	
ESI 6546	Network Flow Analysis	
ESI 6601	Data Warehousing and	
	Mining	
ISM 6155	Information Systems	
	Development	
ISM 6225	Global Applications of	
	Information Technology	
MAN 6830	Organization	
	Information Systems	

Industrial Development

Telecommunications
Telecommunications

TCN 6820

r crecommu	areacions
TCN 5010	Telecommunications
	Technology and
	Applications
TCN 5030	Computer
	Communications
	and Networking
	Technologies
TCN 5060	Telecommunications
	Software and
	Methodologies
TCN 5xxx	Multimedia Computer
	Communications
TCN 5xxx	Telecommunications
	Enterprise Planning and
	Strategy
TCN 6210	Telecommunications
	Network Analysis and

	Design
TCN 6430	Network Management
	and Control Standards
TCN 6450	Wireless Information

Systems TCN 6880 Telecommunications Public Policy

> Development and Standards

EEL 5500	Digital Communications
	I
DEL COL	District Communications

Digital Communications 11

Biomedical T	echnology
BME 5xxx	Engineering Analysis of
	Biological Systems
EEL 5071	Bioelectrical Models
EEL 5085	Bioradiation
	Engineering
EEL 6075	Biosignal Processing I
EEL 6076	Biosignal Processing II
EGM 5585	Biotransport Processes
EGM 6586	Fluid Mechanics

Applications in Physiological Systems

EMA 5584 Biomaterials Science Technology advances.

technology tracks and courses in each track will be inevitably expanded to reflect the latest developments. The final selection of the Technology Track courses and the Technology Elective course requires approval from the student's advisory committee.

Doctor of Philosophy in Industrial and Systems Engineering

Chin-Sheng Chen, Program Director

The doctoral program provides integrated research and education in the area of enterprise systems engineering. The curriculum combines elements of systems engineering, manufacturing engineering, information technology, industrial engineering, and engineering management.

The globalization of the markets has given rise to new entrepreneurial challenges and research inquiries. Engineering systems can no longer be designed and analyzed as isolated islands within a corporation. They must be treated holistic and as a vital part of the entire enterprise. These systems require an entrepreneurial approach to the design, analysis, and development. The doctoral degree provides its students with the necessary tools and methodologies to achieve such an approach.

Admission Requirements

A prospective student must meet all admission requirements stipulated in the University's Graduate Policies and Procedures. In addition, the requirements for admission to the doctoral program in Industrial and Systems Engineering are stated as follows:

a) A student seeking admission to the doctoral program must have a Bachelor's or Master's degree in Industrial Engineering, Systems Engineering, or related field from an accredited institution.

b) A GPA of at least 3.0/4.0 in the upper division coursework applicant's Bachelor's degree and a GPA of at least 3.3/4.0 in the applicant's Master's degree required.

c) GRE of at least 1120 points on verbal plus quantitative.

d) Three letters of recommendation.

e) For students whose native language is not English, a TOEFL score of at least 550 on the written exam or 213 on the computerized exam is required.

The Graduate Admission Committee will examine credentials of all applicants. Students, who do not meet the above requirements, may be evaluated for admission under the "DCU10% Policy" waiver.

Degree Requirements

1. Course Requirements

Applicants having a Bachelor's Degree in Industrial Engineering are required to complete at least 90 credit hours in the Ph.D. program, which should include:

- . At most 36 credits at the 5000 level.
- · At least 30 credits at the 6000 level higher, (not to dissertation).
- · Maximum 18 credits outside the areas of Industrial and Systems Engineering
- Minimum 24 credits of dissertation. Applicants having a Master's Degree in Industrial Engineering from an accredited program are given a maximum of 30 transferred semester hours of coursework.

II. Qualifying Examination and Candidacy Requirements

- · Students must demonstrate graduate knowledge acquisition in three incremental stages in order to be awarded a Ph.D. in Industrial and Systems Engineering:
- · Stage I Qualifying Exam (QE)
- · Stage 11 Proposal and Candidacy Defense
- · Stage III Final Defense

The Qualifying Exam is generally taken during the second year and must be taken no later than the end of the second year. In the semester prior to his/her taking the Qualifying Exam, student must declare intention to take

the exam and must declare a major area. In the event a student failed the Oualifying Exam, the student can retake it one more time in the subsequent semester.

The formal admission to Ph.D. candidacy occurs when the student successfully passes the Qualifying Exam, prepares a formal dissertation proposal, and successfully defends the content of the proposal before his/her advisory committee. Immediately following the proposal defense, the student's dissertation committee will vote to admit the student to candidacy, to have the student resubmit the proposal within six months, or to dimiss the student from the Ph.D. program. A student can only resubmit his/her proposal once.

III. Program of Study

Each student in the proposed program must submit a program of study to his/her adivsory committee before the beginning of the second year. The advisory committee and Graduate Program Director must approve the program of study. A program of study must include the following 12 core courses or equivalent for all students in the proposed program. These courses provide fundamental knowledge in enterprise systems engineering.

Ontimization/Modeling:

ESI 6316	Applications of OR in
	Manufacturing
ESI 6524	Applied Industrial

Systems Simulation ESI 6547 Stochastic Models of

Ind. Systems

Systems Design:

EIN 5346	Logistics Engineering
EIN 6117	Advanced Industrial
	Information Systems
EIN 6133	Enterprise Engineering

Information

Systems/Communications:

L31 3002	Liig. Data
	Representation &
	Modeling
ESI 5603	Advanced Software

Tools for ISE Ind. Development of

TCN 6820 Telecommunications

Engineering Management: Adv. Production EIN 6336

Planning and Control EIN 6357 Advanced Engineering Economy

Human Factors:

EIN 5256 Usability Engineering The remaining credits of coursework are electives courses to provide the student with a focus research data area. The student's advisory committee must approve these electives.

Course Description

Description of Prefixes EGN-Engineering, General EIN-Engineering, Industrial; ESI-Engineering Systems Industrial. F-Fall semester offering: S-Spring

semester offering; SS-Summer semester offering.

EGN 5435 Product Modeling (3). Life cycle product data, geometry and form features, product information models and modeling techniques, product modeling systems, and product data standards. Prerequisites: EGN 3123 or equivalent.

EGN 6436 Manufacturing Process Design (3). Resources modeling, process plan modeling, and planning methodologies for process selection, operations selection, machining parameters selection, setup planning, and inspection planning. Prerequisites: EGN 5842.

EGN 6437 Manufacturing Systems Design (3). System design for production and process planning, resource management, material handling, process control, and quality control. Prerequisite: Permission of the instructor.

EGN 6438 Manufacturing Engineering (3). Manufacturing functions, product and process design, material processing and control, systems design and operations, resource and technology management, and analytical tools for manufacturing. Prerequisites: EIN 3390 or equivalent. (F)

EGN 6971 Master's Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Manufacturing Engineering program.

EIN 5106 Regulatory Aspects of Engineering (3). A survey of the legal and regulatory requirements encountered by engineers. Included will be OSH Act, NIOSH, ADA, EEOC, Worker's Compensation and Product Liability. Prerequisite: Senior standing.

EIN 5226 Total Quality Management for Engineers (3). Fundamentals of TOM and its historical development.

Integration of QC and management tools. OFD, benchmarking, experimental design for scientific management. (F,S)

EIN 5249 Occupational Biomechanics (3). Study of the theoretical fundamentals for the mechanics of the body. The link system of the body and kinematic aspects of body movement including applications of biomechanics to work systems. (S)

EIN 5256 Usability Engineering (3). The usability aspects of software systems design and testing. The theory of interface design for usability and the methods and techniques for designing and testing technology interfaces. Prerequisites: Permission of Instructor.

EIN 5322 Engineering Management (3). Organization of engineering systems including production and service organizations. Inputs of human skills, capital, technology, managerial activities to produce useful products and services. (F.S)

EIN 5332 Quality Engineering (3). This course examines quality control from an engineering standpoint. It covers ways to meet the challenge of designing high-quality products and processes at low cost. Prerequisite: EIN 3331 or equivalent. (S)

EIN 5346 Logistics Engineering (3). Concepts and tools for effective design and management of supply chain systems. Includes logistics strategies, inventory management, customer service, supply chain integration and logistics network design. Prerequisite: Consent of Instructor.

EIN 5359 Industrial Financial Decisions (3). The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods. Prerequisite: EIN 3354. (SS)

EIN 5367 Design of Production Systems (3). The design of an industrial enterprise including feasibility, plant equipment specifications, lavout. auxiliary services, economics and scheduling. Prerequisite: EIN 3365.

EIN 5605 Robotic Assembly Cell (3). Concepts of robot manipulation and sensing, part design for robotic assembly, planning manipulator trajectories, machine vision, robot programming language, cell control, and material transfer. Prerequisite: EIN 3600. (S)

EIN 6117 Advanced Industrial Information Systems (3). Review of the fundamental and theoretical foundation of industrial information systems. Application of the system design process and information system concepts to develop integrated engineering systems. (F,S)

EIN 6131 e-Systems Design (3). The study and application of engineering analysis and design methods for Internet-based systems. The integration of Internet technologies and applications into engineering information systems. Prerequisites: ESI 5602. EIN 6117.

EIN 6132 Collaborative Engineering
(3). Product data management, visualization, collaboration, collaboration product commerce, document management, configuration management, enterprise application integration. Prerequisites: Permission of Instructor.

EIN 6133 Enterprise Engineering (3). Enterprise processes and functions, enterprise engineering methodology and techniques, enterprise scalability, systems and vertical integration, systems design and implementation. Prerequisites: Permission of Instructor.

EIN 6248 Advance Ergonomics (3). Analysis of human factors in the design of engineering systems, with emphasis on the interphase of man-machine-media and human limitations in relation to equipment design and work environments. Prerequisites: EIN 4314, EIN 4243, and PCB 3702 or equivalent. (F)

EIN 6258 Ergonomic Design of Aerospace Systems (3). Application of ergonomic criteria in design of civil and military aircrafts cockpits and control systems. Ergonomic consideration in design of outer space vehicles, stations, and systems. Prerequisite: EIN 6248.

EIN 6259 Usability Engineering in Ecommerce (3). This advanced course applies usability engineering theories and methods to models of e-commerce. Usability models are presented and evaluated using case studies. Prerequisite: EIN 5256. EIN 6319 Advanced Work Design (3). Study of the various human physiologic systems and their responses as it relates to occupational work including endurance, fatigue, recovery, and energy cost of work. Prerequisites: EIN 6248. (S)

EIN 6336C Advanced Production Planning and Control (3). Analytical and algorithmic planning methodologies, planning and scheduling technologies, sequencing rules, control strategies, and line balancing methods. Prerequisite: EIN 4334.

EIN 6345 Inventory Control Systems (3). Design of non-traditional inventory control systems. Development of several inventory system models. Exploration of methods of collecting appropriate demand and cost data for effective systems analysis. Prerequisite: ESI 3314.

EIN 6357 Advanced Engineering
Economy (3). Review of engineering
economy and the evaluation of
advanced manufacturing systems.
Evaluation of alternative capital
investments considering income taxes,
depreciation, inflation, risk and
uncertainty. Prerequisite: EIN 3354.
(SS)

EIN 6392 Product Design for Manufacturability and Automation (3). Overview and integration of the design-material-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395. (S)

EIN 6393 Design and Implementation of Discrete Manufacturing Systems (3). Methodology and techniques for design, planning and implementation of discrete production systems including process/machine selections, material handling and inspection technologies, cell control, etc. Prerequisites: Graduate or seniors with EIN 3365, EIN 3390, and ESI 3523 or equivalent.

EIN 6397 Advanced Topics In Manufacturing Automation (3). Overview of manufacturing systems; evolution of controls and AI, material handling, automation clamps, jigs, and fixtures, cutting sensors, machine vision and autonomous manufacturing. Prerequisites: EIN 6392 and EIN 6398.

EIN 6398 Advanced Manufacturing Process Englneering (3). Nontraditional manufacturing processes. Tool selection, jig and fixture design, material handling, tolerance and dimensioning. Product assembly engineering economics, and manufacturing process planning. Prerequisite: EIN 3390. (F)

EIN 6603 Applied AI/Expert Systems in Industrial Engineering (3). Application of artificial intelligence and expert systems as engineering tools. Exploring the use of PCs and symbolic machine with various AI/Expert Systems software. Several projects are required. Prerequisites: CAP 5680.

EIN 6606 Robotic Systems (3). Basic robotic system principles, functional requirements of robotic systems, simulation of system preliminary design, and physical experimentation of robotic systems.

EIN 6908 Independent Study (1-3). Individual supervised study by a faculty. A study plan and a final report are work required. Prerequisite: Departmental approval. (F,S,SS)

EIN 6932 Graduate Seminar (0). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings and discussions among participants. (F,S)

EIN 6936 Design of Industrial Engineering Systems (3). Overview of systems theories. Systems design process including: Problem definition, analysis, generation of alternatives, systems evaluation, selection of preferred system, and implementation. Prerequisites: EIN 6345, ESI 6316, and ESI 6524.

EIN 6950 Engineering Management Masters Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Engineering Management program. Prerequisite: Permission for the

EIN 6971 Master's Thesis (1-3). The students following the thesis option should work on his/her thesis through this course. (F,S,SS)

ESI 5522 Simulation Models of Engineering Systems (3). Simulation Methodology; design and implementation of models of engineering systems using computer software; case studies. Prerequisite: STA 3033 or EIN 3235 or

of the instructor.

College of Engineering

323

COP equivalent 3175 equivalent.

ESI 5602 Engineering Data Representation and Modeling (3). The course will cover the life cycle of developing, designing. implementing engineering database systems by applying the IDEFLx methodology. Prerequisites: Permission of Instructor.

ESI 5603 Advanced Software Tools for ISE (3). Algorithms and principles integrate heterogeneous tools. Principles of XML, ASP, and other tools. Development of programming projects.

ESI 6316 Applications of OR in Manufacturing (3). Overview of OR techniques. Manufacturing system and product selection. Shop loading, resource allocation, production scheduling, job sequencing, and plant layout problems. System performance evaluation. Prerequisite: ESI 3314. (F)

ESI 6319 Operations Research and Information Technology (3). Principles and paradigms for the design and implementation of OR models, which may be integrated into an organization's existing information system and technologies. Prerequisite: ESI 6316.

ESI 6455 Advanced Engineering Project Management (3). This course covers entire phases of project management including selection, planning, budgeting, scheduling, monitoring, and control. It focuses on the management of engineering projects through case studies and independent research assignment. Prerequisite: Permission of the instructor, (S.SS)

ESI 6524 Applied Industrial Systems Simulation (3). Advanced simulation techniques with a focus on practical systems modeling using several useroriented simulation languages. Projects involving design of high-performance simulation programs are required. Prerequisite: ESI 3523. (S)

ESI 6528 Advanced Topics in Simulation Modeling (3). examination of the role of artificial intelligence, object oriented programming, and databases as enabling technologies in the simulation modeling process. Review of the literature and case studies. Prerequisite: ESI 6524 or equivalent.

ESI 6546 Network Flow Analysis (3). Deterministic and stochastic network flow analysis; minimal cost flow, shortest route, max-flow, and out-ofkilter algorithms; constrained network analysis; and stochastic queueing networks. Prerequisite: ESI 3314.

ESI 6547 Stochastic Models of Industrial Systems (3). Applications of models from gaming, decisions analysis, queueing, inventory and scheduling to assess the performance level of industrial systems operating under random conditions. Prerequisite: ESI 6316.

ESI 6601 Data Warehousing and Mining (3). Knowledge discovery for effective design of data storage. Discussion of the difficulties associated with data warehousing and mining. Literature review and case studies.

TCN 5640 Telecommunications Enterprise Planning and Strategy (3). Methodologies for re-engineering, project management, strateetic planning, change management, RFPs, and life-cycle management within the telecommunications and IT arena. Prerequisite: Permission of the instructor.

TCN 6420 Modeling and Performance Evaluation of Telecommunications Networks (3). Covers methods and research issues in the models and performance evaluation of high-speed and cellular networks. Focuses on the tools from Markov queues, queuing networks theory and applications. Prerequisites: TCN 5030 or equivalent.

TCN 6430 Networks Management and Control Standards (3). Protocols for management of telecom networks, including Simple Network Management Protocol and Common Management Information Protocol. Extension of protocols to optimize network performance. Prerequisites: TCN 5030 or equivalent.

TCN 6820 Industrial Development of Telecommunications (3). This course, from a management perspective, addresses the evolution of the telecom industry, the impact it has on reshaping our world, and the importance of management decisions in telecom.

6880 Telecommunications Public Policy Development and Standards (3). A concept-oriented examination of the domestic and telecommunications international policy processes and standards setting

324

Mechanical and Materials Engineering

Norman Munroe, Associate

Professor, Chairperson and Acting Associate Dean of Graduate Studies Arvind Agarwal, Assistant Professor Viding Cao, Associate Professor Claudius Carnegie, Adjunct Professor Wonbong Choi, Associate Professor Eric Crumpler, Assistant Professor M. Ali Ebadian, Professor and Director, Hemispheric Center for

Environmental Technology Dennis Fan, Assistant Professor

Gordon Hopkins, Professor W. Kinzy Jones, Professor, Director, Advanced Materials Engineering Research Institute

Cesar Levy, Professor, Graduate Program Director

Anthony McGoron, Assistant Professor

James E. Moore, Jr., Associate Professor, Director Cardiovascular Engineering Center

Luis Pujol, Instructor
Ian Radin, Adjunct Professor
Diana Rincon, Assistant Professor
Carmen Schenck, Counselor
Advisor/Instructor

Richard Schoephoerster, Professor and Director, Biomedical Engineering Institute

Ibrahim Tansel, Associate Professor Yong Xin Tao, Associate Professor Some Tosunoglu, Associate Professor Kuang-Hsi Wu, Professor Marc Zampino, Instructor

Mechanical Engineering, a major division of the engineering profession, plays a major role in our technologically advanced society. The design and manufacturing of power plants, automobiles, aircrafts, robots to improved methods of transportation and production by industrial robots, are but a few important inventions that would not have been realized without the creativity associated with the mechanical engineering profession. The mechanical engineer is a vital ingredient in most industries that require automation, computers and medical technology, as well as areas as diverse as space exploration, environmental control and bioengineering. In fact, the mechanical engineer has a direct input in all facets of modern life. There is a high demand graduates in mechanical for engineering from high technology industries throughout the United States and the developing world. The Mechanical and Materials Engineering Depratment at FIU takes pride in providing well educated, and technologically competent graduates to serve these industries.

The academic program provides a well-balanced curriculum in the following areas of Specialization:

- Mechanical Systems
- Thermo/fluid Systems
- HVAC
- Manufacturing and Robotics
- Materials Science and Engineering
- Cardiovascular
- Biomedical Engineering
- Electronic Packaging
- Waste Management
- Renewable Energy

Materials Science and Engineering is a dynamic field involved in the synthesis, structure, properties and performance of materials. Advanced materials are foundation of manufactured products and many of the technological advances of this century were enabled by the development of new materials. Materials Science and Engineering is a program only. graduate undergraduate electives offered in the Mechanical Engineering curriculum to prepare the student for graduate education in materials science and engineering. The academic program offers specialization in metallurgy, ceramics, electronic mate-rials and polymers and biomaterials. There is an increasing demand for graduates in materials science and engineering, with high technology industries leading the need for graduates. In fact, many of the companies needing materials scientists and engineers did not exist 20 years ago. Because everything is made of materials and new materials, such as rapidly nonmaterials, are developed, materials science and engineering is a growth field in engineering.

Opportunities also exist for conducting research in the following Centers:

Advanced Materials Engineering Research Institute (AMERI): This center provides open access to research instrumentation, characterization capabilities and process development laboratories to support materials science and engineering research over the range from nanomaterials to bulk properties.

The eCenter for the Study of Materials under Extreme Conditions (CeSMEC): This center's research is directly geared towards the study of materials, particularly nanophase materials.

Cardiovascular Engineering Center (CVEC): This center engages multi-disciplinary teams of academicians, industry engineers and clinicians in basic and applied research specifically aimed at advancing technology in the design and use of biomedical devices.

Hemispheric Center for Environmental Technology (HCET): HCET, focuses on environmental technology research and applications. The primary activity of the center is in the research of solid waste and nuclear facility decontamination and dismantlement technology.

Master of Science in Mechanical Engineering

Admission Requirements

The Department of Mechanical and Materials Engineering offers both hesis and non-thesis options for the Master's Degree in Mechanical Engineering. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies in areas of interest.

Admission Requirements

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

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.

2. An applicant must have achieved a "B" average, GPA of 3.0 in upper level undergraduate work and a combined score of 1100 on the Graduate Record Examination with the following minimum scores on the individual components: verbal ≥350, and quantitative ≥650.

3. Applicants who have not satisfied the above will be evaluated for probationary or waiver admission.

4. In addition to the above criteria, foreign students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or better or score 213 or better on the computerized TOEFL examination.

5. The GPA, GRE and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science other than mechanical engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission to the graduate program requires the completion of these background courses with no grades below 'C' and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.

2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.

3. Completed the three department core course requirements plus the two required core courses in the student's major area.

4. Completed undergraduate course deficiences specified at admission, if any, with no grades below 'C' and a $GPA \ge 3.0$.

5. Thesis option: Successfully completed a minimum of 30 semester hours of graduate course work as specified in an approved study plan containing at least 6 hours of 6000 level courses with a GPA ≥ 3.0 (the minimum successful grade is a 'C': not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorportated in the study plan) plus a minimum of six hours of masters thesis.

Non-thesis option: Successfully completed a minimum of 33 semester hours of graduate course work as specified in an approved study plan containing at least 9 hours of 6000 level courses with a GPA ≥ 3.0 (not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan).

6. Thesis option: Successful public oral defense of the thesis. Submission of the approved thesis to the Graduate School.

Non-thesis option: Successful completion of a final oral comprehensive examination covering the general objectives of the study plan.

7. Students must achieve an overall GPA ≥ 3.0 in all graduate work completed at FIU in their approved study plan.

8. Complete one semester of the Graduate Seminar course.

9. Complied with all relevant University policies and regulations.

Thesis Option

A student shall complete a minimum of 24 semester credit hours of course work, plus a minimum of 6 semester credit hours of EML 6971, Master's Thesis, and one semester of the ME Graduate Seminar.

The course requirements include a minimum of 12 hours of 6000-level course credit including thesis hours. A maximum of 6 credit hours of courses offered by other departments may be included among the 24 course hour minimum. A maximum of three credit hours of approved independent studies, EML 6908, may be counted toward the M.S. thesis degree. A maximum of six graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and have a minimum letter grade of 'B'. Transfer courses must be approved by the advisor and Graduate Coordinator.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of a least three faculty members (at least two of whom should be from the department). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than 10 days before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the

candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree on the outcome -pass or fail- and report the results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form bound in the final document. Hardcover bound copies of the approved thesis must be provided to the advisor, department, and the library.

Non-Thesis Option

A student shall complete a minimum of 33 semester credit hours of graduate course work, and one semester of Graduate Seminar. Non-thesis students are encouraged to do a three-credit project under the independent study course registration. An approved study plan must include at least 12 credits of 6000 level graduate course work, including the project if elected. Up to nine credit hours of graduate course work from other departments may be included among the minimum of 33 credits. A maximum of six graduate credits from other accredited graduate programs completed with a 'B' or better and not counted toward a previous degree may be included in the study plan. The advisor and the Graduate Coordinator must approve transfer courses if they are to be included in a study plan. A maximum of three credits of independent study beyond an independent project may be included in a study plan.

Non-thesis students are required to take a final oral comprehensive exam dealing with the objectives of their study plan. If a project has been completed, the student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least two of whom should be from the

department.

Areas of Specialization

Air Conditioning and Refrigeration Applied Mechanics Bioengineering/Biomechanics Computer Aided Engineering Design Electronic Packaging Energy Systems Environmental and Waste Management Finite Element Analysis

326 <u>Colle</u>	ege of Engineering				Graduate Catalog
Fluid Med	chanics	EML 5104	Classical	EML 5509	Mechanical Design
Heat Trans			Thermodynamics		Optimization
Manufactu	uring	EML 5152	Intermediate Heat	EML 5562	Advanced Electronic
Material S			Transfer		Packaging
Robotics		EML 5606C	Advanced Refrigeration	EML 5808	Control Technology for
Thermal S	ciences		& A/C Systems		Robotic Systems
		EML 5615C	Computer Aided Design	EML 5825	Sensors and Applied
	quirements		in A/C		Machine Intelligence
	degree seeking students	EML 5708	Advanced Design of	EML 6223	Advanced Mechanical
	e following two courses or		Thermal and Fluid		Vibration Analysis
	plus one seminar as		Systems	EML 6532	Advanced CAD/CAE
common core		EML 6153C	Advanced Heat Transfer	EML 6805	Advanced Design of
EGM 5315	Intermediate Analysis of	EML 6154	Conduction Heat		Robots
DC) 4 5246	Mechanical Systems 3		Transfer	Mostor	f Science in
EGM 5346	Computational Engineering Analysis 3	EML 6155	Convection Heat		
FD 47 6026			Transfer	Material	s Science and
EML 6935		EML 6157	Advanced Radiation	Engineer	ing (MSMSE)
	f the following two courses		Heat Transfer		
with advisor		EML 6712C	Advanced Fluid	Admission	Requirements
EGM 5354	Finite Element Method		Mechanics	The Depart	ment of Mechanical and
	Applications in	EML 6714	Advanced Gas	Materials 1	Engineering offers both
DOM (400	Mechanical Engineering 3		Dynamics	thesis and a	non-thesis options for the
EGM 6422	Advanced Analysis of	EML 6725	Computational Fluid	Master's De	gree. A student seeking the
	Mechanical Systems 3		Dynamics	Master's deg	gree with or without thesis
	al six credit hours of core	Mechanics/N	laterials (Each course is	is required	to pass a comprehensive
	t be taken depending on the		ss stated otherwise)	oral or writte	en examination.
area of intere	est.	EGM 5346	Computational	All work	counted for the Master's
	id/Biomedical Area:	2011 3340	Engineering Analysis	degree must	be completed during the
EML 5709	Intermediate Fluid	EGM 5354	Finite Element Method	six years in	mmediately following the
	Mechanics 3	EGIN 355 v	Appl in ME	date of admi	ssion.
EML 6725	Computational Fluid	EGM 6570	Fracture Mechanics	The prog	gram provides a broad
	Dynamics 3	EMA 5295	Principles of Composite	education,	covering more than one
Mechanics/	Materials Area:		Materials	field, follow	red by in-depth studies in
EGM 5615	Synthesis of	EMA 5507C		areas of inter	rest.
	Engineering Mechanics 3	2	Materials Sciences	Admission	Requirements
EGM 6570	Fracture Mechanics 3	EMA 5935	Advanced Topics in		•
Design and	Manufacturing Area:		Materials Engineering		ng is in addition to the
EML 5530	Intermediate CAD/CAE3	EMA 6127C		University's requirements	
EML 5385	Identification		Mechanical Metallurgy		ent seeking admission into
	Techniques of	EMA 6165C			must have a bachelor's
	Mechanical Systems 3		Analytical Techniques	degree in	engineering, physical
A minimum	of 9 (thesis) or 18 (non-	EML 5505	Smart Machine Design	sciences,	computer science or
	hours are to be taken from		and Development	mathematics	
	g Mechanical Engineering	EML 5509	Mechanical Design		or, in the case of foreign
	p to a maximum of six		Optimization		m an institution recognized
	nine (non-thesis) semester	EML 5125	Classical Dynamics		ountry as preparing students
	be taken from courses	EML 5385	Identification		udy at the graduate level.
	ther departments).		Techniques of Mech.		licant must have achieved a
_			Systems		GPA of 3.0 in upper level
	id (Each course is 3 credits	EML 5562	Advanced Electronic		te work and a combined
unless stated			Packaging		00 on the Graduate Record
EGM 6586	Fluid Mechanics	EML 6223	Advanced Mech.	Examination	
	Applications in		Vibration Analysis		cores on the individual
ECM (FOT	Physiological Systems	EML 6233	Fatigue and Failure	components:	
EGM 6587	Applied Biomedical &		Analysis	quantitative	
	Diagnostic	EML 6805	Advanced Design of		
ECM (FOO	Measurements		Robots		ants who have not satisfied will be evaluated for
EGM 6588	Solid Mechanics	Design and	Manufacturing		or waiver admission.
	Applications in	EML 5385	Identification		tion to the above criteria,
EML 5103	Physiological Systems	22 5565	Techniques of		ents whose native language
EMIL 3103	Intermediate Thormadianamics		Mechanical Systems		sh, must take the Test of
	Thermodynamics	EML 5505	Smart Machine Design		sn, musi take the rest of

and Development

English as a Foreign Language

(TOEFL) and obtain a score of 550 or

327

better or score 213 or better on the computerized TOEFL examination.

5. The GPA, GRE and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science than mechanical other engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission to the graduate program requires the completion of these background courses with no grades below 'C' and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

- Recommendation of the advisor and faculty of the Department.
- 2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.
- Completed the two department core course requirements plus the two required core courses in the student's major area.
- 4. Completed undergraduate course deficiences specified at admission, if any, with no grades below 'C' and a GPA ≥ 3.0.
- 5. Thesis option: Successfully completed a minimum of 30 semester hours of graduate course work as specified in an approved study plan containing at least 6 hours of 6000 level courses with a GPA ≥ 3.0 (the minimum successful grade is a 'C'; not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorportated in the study plan) plus a minimum of six hours of masters thesis.

Non-thesis option: Successfully completed a minimum of 27 semester hours of graduate course work as specified in an approved study plan and a 3 credit hour project with a GPA ≥ 3.0 (not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan).

6. Thesis degree: Successful public oral defense of the thesis. Submission of the approved thesis to the Graduate School.

Non-thesis degree: Successful completion of a formal report and presentation.

- 7. Students must achieve an overall GPA ≥ 3.0 in all graduate work completed at FIU in their approved study plan.
- Completed one semester of the Graduate Seminar course.
- Complied with all relevant University policies and regulations.

Thesis Option

A student shall complete a minimum of 24 semester credit hours of course work, plus a minimum of 6 semester credit hours of EMA 6971, Master's Thesis, and one semester of the MME Graduate Seminar.

A maximum of 6 credit hours of courses offered by other departments may be included among the 24 course hour minimum. A maximum of three credit hours of approved independent studies, EML 6908, may be counted toward the M.S. thesis degree. A maximum of six graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and have a minimum letter grade of 'B'. Transfer courses must be approved by the advisor and Graduate Coordinator.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of a least three faculty members (at least two of whom should be from the department). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than 10 days before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree on the outcome -pass or fail- and report the results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form bound in the final document. Hardcover bound copies of the approved thesis must be provided to the advisor, department, and the library.

Non-Thesis Option

A student shall complete a minimum of 30 semester credit hours of graduate course work, and one semester of Graduate Seminar. Non-thesis students are encouraged to do a three-credit project under the independent study course registration. Up to nine credit hours of graduate course work from other departments may be included among the minimum of 30 credits. A maximum of six graduate credits from other accredited graduate programs completed with a 'B' or better and not counted toward a previous degree may be included in the study plan. The advisor and the Graduate Coordinator must approve transfer courses if they are to be included in a study plan. A maximum of three credits independent study beyond independent project may be included in a study plan.

Non-thesis students are required to submit a formal report and presentation of the project, with the report and presentation or evaluated by an examining committee that will include a minimum of three faculty members, at least two of whom should be from the department.

Areas of Specialization

Metals and Alloys Electronic materials Ceramics Polymers and Biomaterials

Course Requirements

All MSMSE degree seeking students must take the following two courses or equivalent plus one seminar as common core courses:

EMA 5106 Thermodynamics and Kinetics of Materials 3 EMA 5001 Physcial Properties of Materials EML 6935 Graduate Seminar Select two of the following courses with advisor approval: Introduction to EMA 5140 3 Ceramics EMA 5507C Analytical Methods in

EMA 6127C Mechanical Metallurgy 3 EMA 6165C Polymer Science 3

EMA 6365C Polymer Science 3
EMA 6399C Electronic Properties of
Material Science 3

The remainder of the courses shall be chosen from the electives with consultation of the student's advisor. Additionally, up to six hours may be

taken from courses offered by other departments.

MCMCF Flective Courses

MSMSE Elec	tive Courses:	
EEL 6332	Thin Film Engineering	3
EML 5103	Inter. Thermodynamics	3
EMA 5xxx	Surface Science	3
EMA 5295	Principles of Composite	
	Materials	3
EGM 5354	FEM Applications in	
	Engineering	3
EGN 5367	Industrial Materials and	
	Engineering Design	3
EMA 6126	Adv. Physical	
	Matellurgy	3
EML 6233	Fatigue and Failure	
	Analysis	3
EGM 6355	Nonlinear Finite	
	Element Analysis	3
EML 5562	Adv. Electronic	
	Packaging	3
EML 6908	Independent Study	1-3
EML 6910	Supervised Research	1-6
EML 6971	Master Thesis	1-6
EMA 5015	Introduction to	
	Nanomaterials	
	Engineering	3
EMA 5104	Adv. Mechanical	
	Properties of Materials	3

Doctor of Philosophy in Mechanical Engineering

Admission Requirements

The requirements for admission to the doctoral program in Mechanical Engineering for applicants having a Bachelor's degree in Mechanical Engineering from an accredited institution are the following:

a) GPA of at least 3.0/4.0 in the last

60 credit hours attempted

b) GRE of at least 1120 points on the verbal and quantitative sections with the following minimum on the individual components: verbal ≥ 450 and quantitative ≥ 650 .

c) Three letters of recommendation. d) For foreign students whose native

language is not English a TOEFL score of at least 550 or a minimum computerized TOEFL score of 213 is required.

e) Applicants having a Master's degree in Mechanical Engineering from an accredited institution must also satisfy the above requirements for admissions to the doctoral program: however a GPA of at least 3.3/4.0 in the Master's program is also required.

Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

Identification of Research Area

Within 15 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no professor is obtained, the student will be dismissed from the Ph.D. program. Contact the department for a list of the graduate faculty members and their research interests.

Course Requirements

Applicants having a Bachelor's Degree in Mechanical Engineering are required to complete at least 90 credit hours, of which at least 66 hours must be course work and 24 hours dissertation. The credit hours eamed towards the Ph.D. program have the following requirements:

- 1. At least 36 credits at the 5000 level or higher, not to include dissertation.
- 2. At least 21 credits at the 6000 level or higher, not to include dissertation.
- 3. A minimum of 9 semester credits in Mathematics.
- 4. A maximum of 18 credits outside the areas of Mathematics and
- Mechanical Engineering. 5. A minimum of 24 credits of dissertation.
- A maximum of 6 semester hours of graduate credit earned from another accredited institution that was not used for a previous degree may be transferred as long as the courses were completed within the six years preceding admission to the program.

Applicants having a Master's Degree in any Engineering discipline from an accredited institution may include a maximum of 30 semester hours as part of their requirements.

Fast-Track Ph.D. Program

MSME students whose higher education goal is to receive the Ph.D. degree in Mechanical Engineering may apply for the fast-track Ph.D. program up to one semester prior to the completion of their MSME degree requirements.

Application for the fast-track Ph.D. program will be evaluated and must be approved by the graduate committee and the student's advisor. If the student

withdraws from this program before receiving the Ph.D. degree, the student remains eligible to receive the MSME degree provided that they fulfill all requirements for that degree.

Students who qualify for the fasttrack Ph.D. option will have 6 credit hours of master's thesis waived, but the students will meet all the requirements of the Ph.D. program.

Core Courses

MAS 5145

STA 6326

STA 6327

STA 7707

STA 7708

Mathematics: 9 credit hours selected from the following list: Complex Variables1 MAA 4402

Applied Linear Algebra

STA 5206	Design of Experiments
MAD 5405	Numerical Methods
STA 5126	Fundamentals of Design
	of Experiments
MAP 4401	Adv. Differential
	Equations ¹
STA 5236	Regression Analysis
MAP 5236	Math. Tech. of Oper.
	Research
STA 5676	Reliability Engineering
MAP 5407	Methods of Applied
	Analysis
STA 5800	Stochastic Proc for
	Engineers
STA 5505	Nonparametric Methods
STA 6166	Statistical Methods in
	Research 1
STA 6167	Statistical Methods in
	Research II
STA 6176	Biostatistics
STA 6246	Data Analysis 1
STA 6247	Data Analysis II

Other 6000 and 7000 level courses in the Mathematics and Statistics departments may also be acceptable. Check with the Graduate Program Director.

Mathematical Statistics I

Mathematical Statistics II

Multivariate Methods I

Multivariate Methods II

These are the only two undergraduate courses that are allowed.

Engineering: 18 credit hours as listed below: EGM 5315 Intermediate Analysis of

Mechanical Systems EGM 5615 Synthesis of Engineering Mechanics Adv. Analysis of EGM 6422 Mechanical Systems

EMA 5935 Adv. Topics in Materials Engineering

EML 5530 Intermediate CAD/CAE EML 5709 Intermediate Fluid Mechanics

Dissertation: 24 credits

Graduate Ca	italog
credit hours admitted dire degree. Possi	urses: An additional 39 available to students ctly based on a Bachelors ible elective courses from ical Engineering depart-
Thermo/Flu	
EGM 6586	Fluid Mechanics
EGM 6587	Applications in Physiological Systems Applied Biomedical &
201	Diagnostic Measurements

	Physiological Systems
EGM 6587	Applied Biomedical &
	Diagnostic
	Measurements
EGM 6588	Solid Mechanics
	Applications in
	Physiological Systems
EML 5103	Intermediate
	Thermodynamics
EML 5104	Classical
	Thermodynamics
EML 5152	Intermediate Heat
	Transfer
EML 5606C	Advanced Refrigeration
	& A/C Systems
EMI. 5615C	Computer Aided Design

EML 3013C	Computer Alded Design
	in A/C
EML 5708	Advanced Design of
	Thermal and Fluid
	Systems
EML 6153C	Advanced Heat Transfer
EML 6154	Conduction Heat

Transfer

EML 6155	Convection Heat
	Transfer
EML 6157	Advanced Radiation
	Heat Transfer
EML 6712C	Advanced Fluid
	Mechanics
EML 6714	Advanced Gas

	Dynamics
EML 6725	Computational Fluid
	Dynamics

Mechanics/Materials

EGM 5346	Computational
	Engineering Analysis
EGM 5354	Finite Element Method
	Appl in ME
EGM 6570	Fracture Mechanics
EMA 5295	Principles of Composite
	Materials
EMA 5507C	Analytical Techn. of
	Materials Sciences

EMA 5935 Advanced Topics in Materials Engineering EMA 6127C Advanced Physical &

EMA 6165C Polymer Physics & Analytical Techniques EML 5505 Smart Machine Design

and Development

EML 5509 Mechanical Design
Optimization

EML 5125 Classical Dynamics

EML 5385	Identification Techniques of Mech.
	Systems
EML 5562	Advanced Electronic
	Packaging

Packaging
EML 6223 Advanced Mech.

Vibration Analysis
EML 6233 Fatigue and Failure
Analysis

EML 6805 Advanced Design of Robots

Design and Manufacturing

EML 5385 Identification
Techniques of
Mechanical Systems
EML 5505 Smart Machine Design
and Development
FMI 5509 Mechanical Design

Optimization
EML 5562 Advanced Electronic
Packaging

EML 5808 Control Technology for Robotic Systems

EML 5825 Sensors and Applied Machine Intelligence EML 6223 Advanced Mechanical

Vibration Analysis
EML 6532 Advanced CAD/CAE
EML 6805 Advanced Design of
Robots

Residency Requirements

The program will provide student access to a wide range of support facilities including research library. cultural events, and other occasions for intellectual growth associated with campus life, significant faculty/student interaction, opportunities for student exposure to and engagement with cognate disciplines and research scholars working in those disciplines, and significant peer interaction among graduate students. Students will be provided with the opportunity for a mentoring apprentice relationship with faculty and students as well as adequate time for in-depth evaluation of the student. To satisfy the residency requirement for the Ph.D. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months at the University.

Graduate Supervisory and Research Committee

The student's Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and no later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Guidelines in the department for more details on how to select the committee members.

Ph.D. Course Breadth Requirements

Breadth criteria could be satisfied by taking 3 courses in a field/area outside student's own field.

Examinations and Proposal and Final Defense

Student must demonstrate graduate knowledge acquisition in four incremental stages in order to be awarded a Ph.D. in Mechanical Engineering.
Stage I - Qualifying Exam (QE)
Stage II - Proposal Defense (Graduate Seminar)
Stage III Comprehensive Exam (CE) which is the PhD Candidacy

Examination Stage IV -Final Defense

In the semester prior to his/her taking the QE or CE, student must declare intention to take QE or CE and must declare a major field or area of research.

I. Qualifying Exam (QE)

General written exam to test masters level knowledge.

A student who is admitted to the Ph.D. program with a bachelors degree must take the QE no later than the beginning of the 3rd year after admission, and a student who enters the Ph.D. program with a masters degree must take and pass the QE no later than the beginning of the 2nd year after admission. Students may petition for exceptions from the graduate student committee. A student who fails the QE may retake the exam once only.

II. Proposal Defense (FD)

The dissertation proposal will be presented by the student in the form of a Graduate Seminar in which he/she must submit a proposal for his/her dissertation.

Students must declare their proposal subject after taking the Qualifying Exam but before taking the Comprehensive Exam.

III. Comprehensive Exam (CE) Candidacy Examination

The objective of the CE is to assess the depth of knowledge in the major field of research. The examination will be developed by the student's dissertation committee. It must be taken before the end of the 2nd semester of Year 3.

IV. Final Defense (FD)

There will be a public defense at a graduate seminar. The defense can be failed no more than twice.

The final defense should be presented no later than the 4th year after the master's degree and no later than the 6th year after the bachelor's degree.

Following the successful defense of the dissertation, as determined by a majority vote of the student's examining committee, the dissertation must be forwarded to the Dean of the College of Engineering and the Dean of the University Graduate School for their approval.

All dissertations submitted in fulfillment of the requirements for graduate degrees must conform to University guidelines (see "Regulations for Thesis and Dissertation Preparation"). One final and approved copy of the dissertation must be delivered to the Chairperson of the Department of Mechanical Engineering and one to the advisor. Library copies must conform to University guidelines, also published in "Regulations for Thesis and Dissertation Preparation."

Financial Aid

Consult the Department for information on research and teaching assistantships available for doctoral students.

Course Descriptions

Definition of Prefixes

EAS-Engineering, Aerospace;

EGM - Engineering Mechanics;

EGN - Engineering General:

EMA - Engineering Materials;

EML - Engineering Mechanical

EAS 5124 Aerodynamics and Flight Mechanics (3). Fundamentals of aerodynamics, definition of aerodynamic shapes, analysis of aerodynamic forces, airplane performance, and flight stability and control. Prerequisites: EGN 3321, EML 3126, EGN 3343.

EAS 6185 Turbulence (3). Fundamentals of turbulent flow, solutions for bounded and free turbulent flows, dynamics of turbulence, statistical description of turbulence, spectral dynamics, and stability.

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 the instructor.

EGM 5346 Computational Engineerlng Analysis (3). Application of computational methods to mechanical engineering problems of translational, rotational, control, thermal and fluid systems employing linear/nonlinear system elements. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, MAP 2302 or EGM 3311, and EML 3222, or permission of the instructor.

EGM 5354 Finite Element Method Applications in Mechanical Engineering (3). Utilize the finite element method to solve problems in heat transfer, fluid dynamics, diffusion, acoustics, vibration, and electromagnetism, as well as the coupled interaction of these phenomena. Prerequisites: EML 2030 or CGS 2420, EMA 3702, and EML 4140.

EGM 5585 Biotransport Processes (3). Transport of fluid, heat, and mass in the human body. Application to dialyzers and heart-lung devices. Prerequisites: EML 3126L and EML 4140.

EGM 5615 Synthesis of Engineering Mechanics (3). Unified approach to the analysis of continuous media using constitutive equations, mechanical behavior of materials and their usefulness in handling failure theories and composite materials. Perequisites: MAP 2302 or EGM 3311, and EMA 3702.

EGM 5935 Review of Topics in Mechanical Engineering (4). To prepare qualified candidates to take Mechanical Engineering PE written examination. Reviewed courses include Thermodynamics, Fluid Mechanics, Mechanics of Materials, Mechanical Design and Heat Transfer.

EGM 6355 Nonlinear Finite Element Analysis (3). Nonlinear finite element analysis. Geometric and material nonlinearities will be considered in the formulation of different finite elements. Prerequisite: Permission of the instructor.

EGM 6422 Advanced Analysis of Mechanical Systems (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisite: EGM 5315 or Permission of the instructor.

EGM 6455 Impact Dynamics (3). Mechanical impact, point-mass collisions, vibratory impact, stress waves in solids, elastic-plastic stress waves, low velocity impact, penetration and peforation applications. Prerequisites: EGN 3321 and EMA 3702.

EGM 6570 Fracture Mechanics (3). Griffith's and Irwin's fracture criteria; stress intensity factors evaluation; crack-tip plastic zone; fracture toughness measurement; crack initiation; fatigue crack growth; stress corrosion cracking. Prerequisite: EGM 5615.

EGM 6586 Fluid Mechanics Applications in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machines, dialysis units, and heart valves will be discussed. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6587 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of biomeasurement systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging tech-niques, and electrical safety. Prereq-uisite: EGM 4580 or Permission of the instructor.

EGM 6588 Solid Mechanics Applications in Physiological Systems (3). Solid mechanics and numerical methods as applied to rheology analysis of the musculoskeletal system and trauma. Design application in orthotics and prosthesis and heart valves. Prerequisite: EGM 4580 or Permission of the instructor.

EGM 6589 Advanced Biofluid Mechanics (3). Applications of fluid mechanics principles to human circulatory systems. Unsteady blood flow and wave propagation in elastic tubes. Influence of fluid dynamics on thrombosis and atherosclerosis. Prerequisite: EGM 6586.

EGM 6593 Advanced Cardiac Mechanics (3). Applications of principles of solid mechanics to the human cardio-vascular system. 3D reconstruction of the left ventricle, contractile properties and stress distribution in the myocardium. Prerequisite: EGM 6588.

EGM 6654 Advanced Theory of Elasticity (3). Modern methods of

stress and strain analysis including twodimensional problems of stress concentration, contact adhesion, friction, thermal stresses, and dynamic waves, Prerequisites: EGM 5615, EGM 5315, or Permission of the instructor.

EGM 7456 Advanced Impact Dynamics (3). High velocity impact mechanics, hyper velocity impact mechanics, penetration mechanics, long rod and plate penetration me-chanics, dynamic fracture, kinetic energy penetration, analytical modeling. Prerequisite: EML 6455 and Permission of the instructor.

EGM 7574 Advanced Fracture Mechanics (3). Modern fracture mechanics including invariant integrals, nanoscale fracture, environmental fracture, penetration mechanics, failure waves, erosion, and fracture by electron and laser beams. Prerequisites: EGM 6570. EGM 6422.

EGM 7575 Cutting Mechanics (3). Study of cutting stress, impact stress, stress and strain waves, tensile failure, shear-tension couples, responses in cutter and material, mechanics in body, fiber and molecular structures. Prereguisites: EML 6455 and Permission of the instructor.

EGM 7676 Classic Topics of Nonlinear Mechanics (3). Classic topics on nonlinear mechanics, such as Theory of Plasticity of Solids, and the Theory of Jets and Cavities of Fluids. Prerequisites: EGM 5315, EGM 6422, EGM 5615, EML 5709.

EGN 5367 Industrial Materials and Engineering Design (3). Industrial materials, material selection, and engineering design process, including synthesis, analysis, optimization, and evaluation.

EMA 5001 Physical Properties of Materials (3). The physical properties of materials, including the influence of structure on properties, thermo-dynamics of solids and phase transformations and kinetics on microstructural development. Prerequisite: EGM 4521C.

EMA 5015 Introduction Nanomaterials Engineering (3). The science and engineering of nanomaterials, the fabrication, behavior, and characterization of the nano-size particles and materials. Prerequisites: EGN 3365, EGM 3311.

EMA 5104 Advanced Mechanical Properties of Materials (3), Advanced treatment of the mechanical behavior of solids; examines crystal plasticity. dislocations, point defects and grain boundaries, creep and fatigue behavior, fracture. Prerequisites: EGM 3311 Analysis of Mechanical Systems (3).

EMA 5106 Thermodynamics and Kinetics of Materials (3), Laws of thermodynamics. Entropy and free energy. Diffusion mechanisms. Transition state theory and field effects. Phase diagrams. Nucleation in condensed phases. Crystal growth. Prerequisite: EGN 3343 Thermodynamics 1.

EMA 5140 Introduction to Ceramic Materials (3). Synthesis of ceramics, glasses and inorganic microstructure as related to physical properties. Prerequisites: EGN 3365 or instructor's permission.

EMA 5295 Principles of Composite Materials (3). The mechanical behavior of composite materials used in the automotive, aircraft and sporting goods industries; material and laminar properties: design of composites; failure analysis; and environmental effects. Prerequisite: EGM 5615 or Permission of the instructor.

EMA 5507C Analytical Techniques of Materials Science (3), Fundamental theories and techniques of the analytical methods for materials including: Xray diffraction, scanning and transmission electron microscopy, thermal and surface analysis, and vacuum systems. Prerequisite: EGN 3365.

EMA 5584 Biomaterials Science (3). Materials used in prostheses for skin and soft tissue, vascular implant devices, bone repair, and artificial joints. Structure-property relationships for biological tissue. Prerequisites: EGN 3365 and EMA 3702.

EMA 5935 Advanced Topics in Materials Engineering (3). Topics include thermodynamics of solids, principles of physical metallurgy, including phase transformation and diffusion and analytical methods in materials engineering. Prerequisite: EGN 3365 and EGM 3343.

EMA 6126 Advanced Physical Metallurgy (3). Energetics of phase transformation and spinodal decomposition, homogeneous and heterogeneous nucleation in solid state reactions, and martensite transformations. Prerequisites: EMA 4121 or Permission of the instructor.

EMA 6127C Advanced Physical and Mechanical Metallurgy (3). Advanced topics in physical and mechanical metallurgy including statics and dynamics of dislocations, plastic deformation of fracture, creep solidification, phase transformation, and heat treatment. Prerequisite: EGN 3365 or Permission of the instructor.

EMA 6165C Polymer Physics and Analytical Techniques (3). Topics in polymers and the analytical techniques, including: synthesis, characterization, state of polymers, plasma processes, Xray diffraction, scanning and transmission electron microscopy. Prerequisite: EGN 3365 or Permission of the instructor.

EMA 6185 Advanced Mechanics of Composite Materials (3). Study of micromechanics and mechanical processes in microscale, including fracture, reinforcement and delamination. Prerequisite: EMA 5295.

EMA 6516 Crystallography and Xray Diffraction (3). Principles of crystallography and the use of x-ray diffraction and Raman Spectroscopy to characterize crystalline solids. Prerequisite: Instructor's permission.

EMC 5415 Digital Control of Mechanical Systems (3). Discrete modeling of mechanical systems. Digital feedback systems. Computer interface of mechanical systems. Controller design with emphasis on hydraulic, pneumatic and electromechanical devices. Prerequisite: EML 4312.

EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and legendre transformations: maxwell relations, first and second order phase transitions. Prerequisite: EML 3101.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electromagnetic, and chemical systems, under ideal and real conditions. Prerequisite: EML 3101.

EML 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 gyroscopes. Variational principles. Hamiltonian equations of motion. Poinsote representation. Prerequisites: MAP 2302 or EGM 3311, and EGN 3321.

EML 5152 Intermediate Heat Transfer (3). Multi-dimensional heat conduction under steady and transient conditions. Heat, mass and momentum transfer. Radiation heat transfer. Gas radiation. Free and forced convection. Prerequisite: EML 4140.

EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these techniques are discussed for identification of mechanical structures, and machine diagnostics. Prerequisite: EML 4312.

EML 5412 Combustion Processes (3). Introduction to combustion pro-cesses, thermochemistry, chemical kinetics, laminar flame propagation, detonations and explosions, flammabil-ity and ignition, applications in IC engines and gas turbines. Prerequisites: EML 3101 and EML 4140.

EML 5505 Smart Machine Design and Development (3). Design of independently operating smart electromechanical systems (most consumer products) which monitor their environment, give decisions, and create motion. Prerequisites: EML 4312 or consent of instructor.

EML 5509 Mechanical Design Optimization (3). Finite element analysis and sensitivity analysis combined with numerical optimization techniques to optimize the design. Prerequisite: EGM 5354 or Permission of the instructor.

EML 5519 Fault-Tolerant System Design (3). Fault tolerance in mechanical, manufacturing, computer, and aerospace systems. Basic stages of fault isolation. Fault tolerance measures, architectures, and mechanical system design methodologies. Prerequisite: EMI. 3500.

EMI, 5530 Intermediate CAD/CAE (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for planer kinematic systems will be emphasized. Prerequisites: EML 4535, or Permission of the instructor.

EML 5562 Advanced Electronic Packaging (3). Advanced topics in electronic packaging. Evaluation of first through fourth level assembly. Applications of computer layout design, thermal management and mechanical stability analysis. Prerequisite: EMI, 4561 or Permission of the instructor.

EML 5599 Heat Pipe Theory and Applications (3). Heat pipe theory, heat pipe design and its applications, especially in the areas of energy conversion and conservation. Prerequisites: EMI, 3101 and EML 4140.

EML 5606C Advanced Refrigeration and Air Conditioning Systems (3). The various methods used in the thermal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of producing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermoelectric, solar heating and cooling systems. Prerequisite: EML 4601.

EML 5615C Computer/Aided Design in Air Conditioning (3). Software will be used to demonstrate heating. ventilating and air conditioning design concepts and sizing equipment and determining performance parameters. Project design is required. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, and EML 4601.

EML 5708 Advanced Design of Thermal and Fluid Systems (3). Advanced design of pumps, compressors, heat exchangers, HVAC systems and thermal and fluid control devices. Prerequisite: EML 4706.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations: selected exact and approximate solutions. Prerequisite: EML 3126.

EML 5748 Boundary Layer Theory (3). Advanced fluid dynamic analysis of the Navier - Stokes equation using boundary layer assumptions. Focus will be on solutions of thermal and fluid boundary layers. Prerequisite: EML 3126.

EML 5808 Control Technology for Robotic Systems (3). State-space equations of robots. Controller design based on linearization, nonlinearity cancellation, optimal control, adaptive control and other methods. Stability analysis, performance comparison. Prerequisites: EGN 3321, EML 4312 or equivalent.

EML 5825 Sensors and Applied Machine Intelligence (3). Sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Production Machine Modeling and Design. Prerequisites: EML 4312 or Permission of the instructor.

EML 6153C Advanced Heat Transfer (3). Review of analogies among heat, mass and momentum transfer. Free and forced convection from theoretical and experimental viewpoint for laminar and turbulent flows. Film and dropwise condensation. Prerequisite: EML 5152.

EML 6154 Conduction Heat Transer (3). Heat transfer by conduction for steady and unsteady one and multidimensional systems with and without heat generation. Temperature distribution analysis using analytical and computational methods. Prerequisite: EML 4140.

EML 6155 Convection Heat Transfer (3). Development and solution of governing equations of parallel flows, boundary layer flows, instability and turbulence with convective heat transfer. Prerequisite: EML 4140.

EMI, 6157 Radiation Heat Transfer (3). Heat transfer by radiation for steady and unsteady one and multidimensional systems. Radiation parameters effecting different systems will be studied, analytically or numerically. Prerequisite: EML 4140.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multidegree of freedom systems, discrete and continuous systems; vibration control and introduction to vibration of non-linear systems. Prerequisite: EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and practical aspects of material failure including failure modes, life prediction, corrosion with the goal of designing a safe product. Prerequisite: EGM 5615.

EMI, 6245 Advanced Tribology (3). Analyses of friction, wear, and flash temperature. Theories of elastohydrodynamic and mixed lubrications. Tribology of advanced materials.

Prerequisite: EML 4246 or permission of the instructor.

EML 6518 Advanced Modeling in Mechanical Engineering (3). Basic principles of mathematical modeling following a variety of problems in mechanical engineering. Prerequisites: EGM 6422 and EGM 5615.

EML 6532 Advanced Computer-Aided Design/Computer-Aided Engineering (3). Advanced CAD techniques in design of mechanical systems. Architecture of CAD systems including database applications. Advanced computational geometry student programming. Prerequisites: EML 5530.

EML 6574 Advanced Mechanical
Design Optimization (3). Advanced
topics in numerical optimization,
sensitivity analysis, approximation
techniques and shape optimization.
Prerequisite: EML 5509.

EML 6712C Advanced Fluid Mechanics I (3). Turbulent flows with emphasis on engineering methods. Momentum, energy, and species transfer. Production, dissipation, and scaling laws for turbulence. Mixing length, effective viscosity. Prerequisite: EML 5709.

EML 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechanics principles applied to high speed flows. Flows to be studied include flows with friction and heat loss/addition. Prerequisite: EML 4711.

EML 6725 Computational Fluid Dynamics (3). Basic computational methods for incompressible and compressible flows. Methods for solving the stream function equation. Boundary conditions for vorticity and stream function equations. Finite difference and finite element techniques. Prerequisites: CGS 2420, EML 6712.

EML 6747 Mechanics of Fluid Flow in Porous Materials (3). The mathematical theory of fluid penetration through porous materials and lungs, heat transfer, fluidized beds, nonstationary flows, and double continua. Prerequisite: EML 5709.

EML 6750 Multiphase Suspension Flow (3). Definition of multiphase flow, experimental observation, mathenatical modeling of multiphase systems, measurement techniques, suspension boundary layer flow, and fluidization techniques. Prerequisite: Permission of the instructor.

EML 6805 Advanced Design of Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisites: EML 3222, EML 3262 and EML 4501.

EML 6908 Independent Studies (1-3). Individual research studies available for qualified graduate students. The work is to be performed under the supervision of an advisor. A report is to be submitted. Students may register for 1 to 3 credits per semester. Prerequisite: Advisor's permission.

EML 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

EML 6935 Graduate Seminar (0).
Different problems in Mechanical
Engineering and results of ongoing
research will be presented and
discussed by invited experts. The
seminar will expose the students to
advances in existing and emerging
areas of research. Prerequisite: Graduate standing.

EML 6971 Masters Thesis (1-6). Masters thesis in any advanced topic, a report is to be submitted and an oral presentation is to be made. Students may register for one to six credits per semester. Total of six credits to be earned for the Master's Degree. Prerequisite: Advisor's permission.

EML 7728 Mechanics of Vortex and Separated Flows (3). Prediction of drag and lift forces acting upon a body moving in fluid or gas for large Reynolds' numbers using numerical experiments with vortex and/or separated flows. Perequisites: EML 6712, EGM 6422, and EML 6714.

EML 7837 Boundary Value Problems in Engineering (3). Analytical methods and skills for closed-form solutions of boundary value problem of mathematical physics and mechanics for engineering applications based on Riemann theory. Prerequisites: MAP 5407, MAA 4402, or Permission of the instructor.

EML 7939 Ph.D. Seminar (0).
Various subjects in Mechnical
Engineering and results of ongoing
research will be presented and
discussed by invited experts. The

seminar will expose the students to advnace in existing and emerging areas of research. Prerequisite: Ph.D. students only.

EML 7979 Dissertation (3-12). Doctoral research leading to Ph.D. Mechanical engineering dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

College of Engineering

Dean Associate Dean for Vish Prasad

Academic Programs L. David Shen
Acting Associate Dean for

Graduate Studies Norman Munroe Associate Dean Gustavo Roig Acting Chairperson, Civil and

Environmental

Engineering Wolfgang F. Rogge Chairperson, Construction

Management John M. Dye Chairperson, Electrical

and Computer
Engineering

Kang Yen

Chairperson, Industrial and Systems

Engineering Shih-Ming Lee Chairperson, Mechanical and Mateials

Engineering Norman Munroe Director, Advanced Materials

Engineering Research
Institute W. I

Institute W. Kinzy Jones
Director, Applied Research in
Industrial and Systems

Engineering Martha Centeno
Director, Biomedical

Engineering Institute

Richard T. Schoephoerster

Director, Cardiovascular Engineering

Center James E. Moore, Jr.

Director, Center for Advanced
Technology and
Education Malek Adjourned

Education Malek Adjouadi
Director, Center for Diversity
in Engineering Custom Bala

in Engineering Gustavo Roig Director, Center for the Study of Matters at Extreme

Conditions Surendra Saxena
Director, Division of Corporate

and Global
Programs Sushil Gupta

Acting Director, Engineering
Information

Center Hernan Bormey
Director, Florida Engineering

Education Delivery
System Mercy Rueda

Director, Future Aerospcae
Science and Technology
Center for

Cryoelectronics Grover Larkins

Director, Lehman Center for Transportation

Research L. David Shen
Director, Manufacturing

Research Center Chin-Sheng Chea Director, Telecommunications

and Information Technology
Institute Niki Pissinon

Faculty

Adjouadi, Malek, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering; Director, Center for Advanced Technology and Education

Agarwal, Arvind, Ph.D. (University of Tennessee at Knoxville), Assistant Professor, Mechanical and Materials Engineering

Ahmad, Irtishad, Ph.D., P.E. (University of Cincinnati), Associate Professor, Civil and Environmental Engineering

Ahmed, Syed M., Ph.D. (Georgia Institute of Technology), Assistant Professor and Graduate Program Director, Construction Management

Andrian, Jean, Ph.D., P.E. (University of Florida), Associate Professor, and Graduate Program Director, Electrical and Computer Engineering

Babij, Tadeusz, Ph.D. (Technical University, Wrocław, Poland), Professor, Electrical and Computer Engineering

Baier, Ronald, A., P.E. (University of Florida), Instructor and Undergraduate Advisor, Construction Management

Barreto, Armando B., Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Caballero, Amaury A., Ph.D., P.E. (Energy Institute of Moscow), Assistant Professor, Construction Management

Candocia, Frank, Ph.D. (University of Florida), Assistant Professor, Electrical and Computer Engineering

Can, Yiding, Ph.D. (University of Dayton), Associate Professor, Mechanical and Materials Engineering

Carpenter, Kenneth H., Ed.D. (West Virginia University), Associate Professor, Construction Management

Carsrud, Alan L., Ph.D. (University of Texas at Austin), Clinical Professor of Management and Engineering, Director of the Center for Global Entrepreneurship

Centeno, Martha A., Ph.D. (Texas A&M University), Associate Professor, Industrial and Systems Engineering: Director, Applied Research in Industrial and Systems Engineering Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania),

Professor, Construction
Management

Chen, Chin Sheng, Ph.D. (Virginia Polytechnic Institute and State University), Professor, Industrial and Systems Engineering; Director, Manufacturing Research Center

Choi, Wonbong, Ph.D. (North Carolina State University at Raleigh), Associate Professor, Mechanical and Materials Engineering

Chow, Joe, Ph.D. (Carnegie Mellon University), Associate Professor, Industrial and Systems Engineering Crumpler, Eric; Ph.D. (Northwestern

University), Assistant Professor,
Biomedical Engineering

Dye, John M., S.M. C.E. (Massachusetts Institute of Technology), Chairperson, Construction Management

Fan, Denois, Ph.D. (State University of New York at Stonybrook), Assistant Professor, Mechanical and Materials Engineering

Farmer, Eugene D., M.Arch., R.A.
A.I.A. (University of Illinois),
Associate Professor and
Undergraduate Program
Coordinator, Construction
Management
Franquiz, Juan, Ph.D. (University of

Florida), Assistant Professor, Biomedical Engineering Fuentes, Hector R., Ph.D., P.E.,

D.E.E. (Vanderbilt University),
Professor, Civil and Environmental
Engineering

Gan, Albert, Ph.D. (University of Florida), Assistant Professor, Civil and Environmental Engineering

Giachetti, Ronald E., Ph.D. (North Carolina State University), Assistant Professor, Industrial and Systems Engineering

Gilbar, Thomas, M.S. (Florida International University), Instructor and Undergraduate Advisor, Electrical and Computer Engineering

Gomez, Nestor, Ph.D., P.E. (Carnegie Mellon University), Assistant Professor, Civil and Environmental Engineering

Gupta, Sushil, Ph.D. (University of Delhi), Professor, Industrial and Systems Eigeneering; Director, Division of Corporate and Global Programs

Heimer, Malcolm L., Ph.D. (Penn State University), Associate

335

Professor, Electrical and Computer Engineering

Hopkins, Gordon R., Ph.D. (University of Alabama), Professor, Mechanical and Materials Engineering and Industrial and Systems Engineering

Jolibois, Sylvan C., Jr., Ph.D. (University of California-Berkeley), Associate Professor, Civil and Environmental Engineering

Jones, W. Kinzy, Ph.D. (Massachusetts Institute of Technology), Professor, Mechanical and Materials Engineering; Director, Advanced Materials and Engineering Research Institute

Kengskool, Khokiat, Ph.D. (University of Missouri), Associate Professor, Industrial and Systems Engineering

Khizroev, Sakhrat, Ph.D. (Carnegie Mellon University), Associate Professor, Electrical and Computer Engineering

Laha, Shonali, Ph.D., P.E., (Carnegie Mellon University), Associate Professor, Civil and Environmental Engineering

Larkins, Grover L., Ph.D. (Case Western Reserve University), Associate Professor, Electrical and Computer Engineering; Director, Future Aerospace Science and Technology Center

Lee, Shih-Ming, Ph.D., P.E. (Iowa State University), Associate Professor and Chairperson, Industrial and Systems Engineering

Levy, Cesar, Ph.D. (Stanford University), Professor and Graduate Program Director, Mechanical and Materials Engineering

Linn, Richard, Ph.D. (Pennsylvania State University), Associate Professor, Industrial and Systems Engineering

Makki, Kia, Ph.D. (University of California at Davis), Professor, Industrial and Systems Engineering

McGoron, Anthony J., Ph.D. (Louisiana Tech University), Assistant Professor, Biomedical Engineering

Mitrani, Jose D., Engr., P.E., (University of Florida), Associate Professor, Construction Management

Mohammed, Osama A., Ph.D. (Virginia Polytech.), Professor and Associate Chair, Electrical and Computer Engineering Moore, Jr., James E., Ph.D. (Georgia Institute of Technology), Associate Professor, Biomedical Engineering and Director, Cardiovascular Engineering Center

Munroe, Norman, Ph.D. (Columbia University), Acting Associate Dean, Associate Professor and Chairperson, Mechanical and Materials Engineering

Nunoo, Charles, Ph.D., P.Eng. (Florida International University), Instructor/Advisor, Civil and Environmental Engineering

Palaniappa, Malathi, M.S. (Florida Atlantic University), Visiting Instructor, Electrical and Computer Engineering

Pissinou, Niki, Ph.D. (University of Southern California), Professor, Electrical and Computer Engineering; Director, Telecommunications and Information Technology Institute

Prieto-Portar, Luis A., Ph.D., P.E. (Princeton University), Professor, Civil and Environmental Engineering

Pujol, Luis, Ph.D. (Lehigh University), Instructor, Mechanical and Materials Engineering

Renugopalakrishnan, Venkatesan, Ph.D. (SUNY, Buffalo), Wallace H. Coulter Eminent Scholars Chair in Biomedical Engineering

Resnick, Marc L., Ph.D. (University of Michigan), Associate Professor, Graduate Program Director, Industrial and Systems Engineering

Rincon, Diana, Ph.D. (University of Michigan), Assistant Professor, Mechanical and Materials Engineering

Rogge, Wolfgang F., Ph.D., P.E. (California Institute of Technology), Associate Professor and Acting Chairperson, Civil and Environmental Engineering

Roig, Gustavo, A., Ph.D. (University of Florida), Associate Professor and Associate Dean, Electrical and Computer Engineering; Director, Center for Diversity and Engineering

Sanchez, Mario, M.S. (Florida International University), Instructor/Counselor/Advisor, Industrial & Systems Engineering and Manager, Manufacturing Research Center

Schenck, Carmen, M.S. (Florida International University), Instructor/Counselor/Advisor, Mechanical and Materials Engineering

Schoephoerster, Richard, Ph.D. (University of Iowa), Director and Professor, Biomedical Engineering

Shen, Lon-Li. David, Ph.D., P.E., T.E. (Clemson University), Associate Dean and Professor, Civil and Environmental Engineering, Director, Lehman Center for Transportation Research

Story, James R., Ph.D. (University of Alabama), Professor, Electrical and Computer Engineering Tang, Walter Z., Ph.D., P.E.

Tang, Walter Z., Ph.D., P.E. (University of Delaware), Associate Professor, Civil and Environmental Engineering, Director, Water

Tansel, Berrin, Ph.D., P.E. (University of Wisconsin-Madison), Associate Professor, Civil and Environmental Engineering

Tansel, Ibrahim, Ph.D. (University of Wisconsin-Madison), Associate Professor, Mechanical and Materials Engineering

Tao, Yong Xin, Ph.D. (University of Michigan), Associate Professor, Mechanical and Materials Engineering

Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor Emeritus, Civil and Environmental Engineering

Torbica, Zeljko M., Ph.D. (University of Florida), Assistant Professor of Construction Management

Tosunoglu, Sahri, Ph.D. (University of Florida), Associate Professor, Mechanical and Materials Engineering

Urhan, Frank K., Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Vlasov, Yuriy A., Ph.D. (Ioffe Technical Institute), Assistant Professor, Electrical and Computer Engineering

Wang, Jian, Ph.D. (University of California-Davis), Assistant Professor, Electrical and Computer Engineering

Wang, Ton-Lo, Ph.D., P.E. (Illinois Institute of Technology), Professor, Civil and Environmental Engineering

Wu, Kuang-Hsi, Ph.D., P.E. (University of Illinois), Professor, Mechanical and Materials Engineering

Wunnava, Subbarao V., Ph.D., P.E. (Andhra University), Professor, Electrical and Computer Engineering Yaylali, Ilker, Ph.D. (University of Miami), Research Assistant Professor, Biomedical Engineering Yen, Kang K., Ph.D., P.E. (Vanderbilt University), Professor and

Chairperson, Electrical and
Computer Engineering
Zampino, Mark, Ph.D. (Florida
International University), Instrcutor,
Mechanical and Materials
Engineering

Zhao, Fang, Ph.D., P.E. (Carnegie Mellon University), Associate Professor, Civil and Environmental Engineering Zhou, Chi, Ph.D. (Northwestern University), Assistant Professor,

Electrical and Computer Engineering

College of Health and Urban Affairs

College of Health and Urban Affairs

Ronald M. Berkman Dean Associate Dean Evelyn B. Enrione Andrew Miracle Associate Dean Harlan Sands Associate Dean Marta M. Medina Assistant Dean

Directors, Chairpersons, and Coordinators:

School of Health

Norma Anderson Dietetics and

Nutrition Occupational

Patricia Scott Therapy

Physical Therapy Public Health

Leonard Elbaum H. Virginia McCoy

Michele Ciccazzo

Communication and Sciences

Lemmietta McNeilly Disorders

School of Nursing

Divina Grossman

School of Policy Management Criminal Justice

Terry Buss Jose Marques

Health Information Sandra McDonald Management

Health Services Administration Gerry Mills

Public

Keith Revell

Administation School of Social Work

Ray Thomlison

The College of Health and Urban Affairs was created by the Board of Regents in the Spring of 2000 when the former College of Urban and Public Affairs and the College of Health Sciences were merged. In support of the University's mission as a major urban research institution, The College offers programs of professional study in selected health professions and that focus on critical management issues in urban environments.

The College is composed of four schools: School of Health, School of Nursing, School of Policy and Management and the School of Social Work. The College offers baccalaureate degrees in Dietetics and Nutrition. Health Sciences, Occupational Therapy, Nursing, Criminal Justice, Health Services Administration, Health Information Management, Administration and Social Work. Masters Degrees are offered in Dietetics and Nutrition, Occupational Therapy, Physical Therapy, Public Health, Speech Language Pathology, Nursing, Criminal Justice, Health Services Administration, **Public** Adminstration, and Social Work. The Doctor of Philosophy is offered in Dietetics and Nutrition, Public Administration and Social Welfare.

In addition, the College of Health and Urban Affairs is home to seven centers and institutes: The Center for the Administration of Justice: Institute of Government; Institute for Children and Families at Risk: HRS/Children. Youth and Families Professional Development Center; the Institute for Public Management and Community Service, The Life Course and Health Research Center: and the National Policy and Resource Center on Nutrition and Aging. These centers and institutes provide research and service opportunities to students while maintaining an agenda of top level research on issues critical to our community and society. Information on these centers is contained in this ("General Informationcatalog Centers and Institutes").

Students interested in the academic programs offered by the College of Health and Urban Affairs are urged to contact an advisor for guidance on admissions requirements, curriculum and career planning. Please call the School of Health at (305) 348-3186, School of Nursing at (305) 919-5915, School of Policy and Management at (305) 348-5890 or School of Social Work at (305) 348-5880. The Dean's Office may be reached at (305) 348-

Changes to the Curriculum Requirements

The programs, policies, and requirements and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. This is especially true for the programs that are subject to national accreditation requirements (the majority of the degree programs in the College.) University policy changes in curriculum may be made without advance notice.

Generally, the College of Health and Urban Affairs makes every effort to minimize the impact of curriculum changes on currently enrolled students by stipulating that students complete the requirements of their degree program in effect at the time of admission or readmission to the program. In the event that this is not possible due to accreditation standards or the deletion of courses, students may be required to complete alternative degree requirements in order to graduate. All changes in a student's curriculum requirements must be noted in the student's official file, maintained by the appropriate School. Students should review their file to ensure that all documentation of changes to their approved program of study are noted.

6507 Qualitative Research Methods in Health and Urban Affairs (3). Critical issues, theoretical and practical applications for conducting qualitative research explored as they relate to health, social service and public administration environments. Prerequisite: Graduate Research Methods.

IHS 6509 Quantitative Research Analysis in Health Urban Affairs I (3). Application of quanitative techniques used for research analysis in health and urban affairs research and practice settings. Prerequisites: STA 3145 or STA 6166 or equivalent.

IHS 6510 Quantitative Research Analysis in Health and Urban Affairs II (3). Application of quantitative techniques used for research analysis in health and urban affairs practice settings with focus on multivariate analysis. Prerequisites: STA 6167 or equivalent; IHS 6509.

IHS 6910 Principles of Research in Health and Social Services (3). Study of scientific research, inductive and deductive thinking, research methods and design as applied to healthcare, services and government social agencies. Prerequisite: Undergraduate Statistics.

IHS 6937 Interdisciplinary Graduate Seminar (1-3). Multidisciplinary seminar including foundations of reasoning and investigative methods focusing on a multi-dimensional problem related to social, legal, policy, economic, and health issues. Prerequisite: Research Methods.

School of Health

School of Health

Director. Dietetics and Noma Anderson

Nutrition Occupational

Michele Ciccazzo

Therapy Physical

Patricia Scott

Helen Cornely Therapy Andrew Miracle Public Health Communication

Sciences and

Disorders Lemmietta McNeilly

The School of Health offers programs of professional study in select health professions. The academic departments of the School offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition and Health Sciences. Master's degrees are offered in Dietetics and Nutrition. Occupational Therapy. Physical Therapy, Public Health, and Speech-Language Pathology. A Doctor of Philosophy is offered by Dietetics and Nutrition. All degree programs are appropriately accredited by their respective professional accrediting bodies. Speech-Language Pathology, a new program, was awarded candidacy Fall 2000.

Applicants must submit an Application for Admission to the University and must follow regular University procedures. Applicants must be eligible for admission to the University before being admitted to any degree program. Because the school's programs have different requirements, students interested in admission to any program in the School should contact the department for admission requirements.

The goals of the School of Health are

1. Prepare health professionals at the undergraduate and graduate levels.

2. Promote close articulation between the appropriate programs and the community clinical sites for the experiential learning of our students.

3. Increase the knowledge base of the health disciplines through research.

4. Provide service to the health professions at the local, regional, national and/or international levels.

Academic Support Services

The Coordinator for Academic and Student Support Services is responsible for coordinating graduate academic advising and student service activities for the School of Health. The Office of Student Support Services provides students with information about educational opportunities such as scholarships, tuition waivers, and campus resources; and serves as a liaison between the School of Health and university-wide student support services and facilitates registration and graduation procedures.

A student who has been accepted into a graduate degree program in the School must consult an advisor prior to initial course enrollment. An advisor may be assigned by contacting the Chairperson of the Department. Continued contact (at least once per semester) with an advisor encouraged to insure proper selection of courses to fulfill graduation requirements.

HSC 5666 Information and Communication for Health Professionals (3). Information and communication technology introduces technology and practical computer applications for today's health care professional. This on-line course uses a web-based format. Prerequisite: Basic computer experi-ence.

HSC 5905 Health Independent Study (3). Faculty supervised project in health-related topics in association with the student's special interests.

Dietetics and Nutrition

Michele Ciccazzo, Associate Professor, Chairperson Marianna Baum, Professor Jordana Brown, Clinical Assistant Professor and Director, Didactic Program

Adriana Campa, Research Assistant Professor

Katharine R. Curry, Professor Emeritus

Victoria Hammer Castellanos, Associate Professor

Zisca Dixon, Associate Professor Penelope S. Easton, Professor Emeritus

Evelvn B. Enrione, Associate Professor and Associate Dean Valerie George, Research Associate Professor

Susan P. Himburg, Professor Fatma Huffman, Professor Amy Jaffe, Clinical Instructor, Director Dietetic Internship Marcia Magnus, Associate Professor

Jorge Monserrate, Clinical Assistant Professor and Director, Coordinated Program

Dian Weddle, Associate Professor Nancy S. Wellman, Professor

The Department offers graduate programs leading to a Master of Science or a Doctor of Philosophy in Dietetics and Nutrition. The M.S. program is designed to meet the needs of professional practitioners as well as students with undergraduate degrees in related fields. There is an opportunity students to complete the for requirements to sit for the National Registration Exam for Dietitians by applying to the Dietetic Internship in conjunction with the Master's program. In most 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 University Graduate School policy must be met. For the M.S. this includes a combined score of 1000 on the Verbal and Ouantitative Aptitude Test of the Graduate Record Examination and a 'B' (3.0 on a 4.0 scale) average in all upper division work. For the Ph.D., the University Graduate School GRE requirement is 1120 (verbal plus quantitative). Dietetics and Nutrition further requires an M.S. degree, 3.3 GPA and a minimum on the verbal portion of the GRE of 500. Additional requirements

include submission of a Master's thesis or project report, or a published manuscript resulting from Master's work on which applicant is among the first 3 authors and a 2-3 page statement of purpose, objectives and goals for Ph.D. studies. English proficiency is required for teaching assistantships. Students for whom English is not the primary language and want to be considered for a teaching assistantship must achieve a level 5 score on a proficiency test administered by the English Language Institute, but are free to acquire proficiency in any way they choose. All teaching assistants must complete the FIU Academy of the Art of Teaching workshop and receive the Teaching Assistant Certificate. Application procedures for admission are detailed in the University procedures for admission to graduate study.

Students who are candidates for the Master of Science degree in Dietetics and Nutrition must complete a minimum of 37 semester hours of graduate study including at least 30 hours at this University. All course work must be recent enough to be relevant to the contemporary field of nutrition. Ph.D. students must complete a minimum of 55 hours after M.S. degree.

The Dietetic Internship (DI) is currently granted accredited status by The Commission on Accreditation/Approval for Dietetics Education of The American Dietetic Association, 216 Jackson Blvd., Chicago, Il. 60606-6995, (312) 899-4870.

The program begins each Fall semester and is completed by the following June. Students have the opportunity for supervised dietetic practice in outstanding health care facilities in South Florida. Enrollment is limited and requires a separate available from application department. To be eligible, students must have completed an ADA Didactic program and be admitted to the graduate program. (Students must have official committee approval of thesis proposal prior to the application deadline of February 15.)

Students must meet all graduation requirements for the M.S. degree in order to receive the verification statement of Dietetic Internship program completion.

Master of Science in **Dietetics and Nutrition**

Each student's program will be planned to support his/her career goals through consultation with an assigned faculty advisor. Retention and graduation in the Master's program requires maintenance of a 3.0 GPA and student may not receive more than 2 grades of "C+" or less.

Course Requirements Required Core (23)

Research: ([4]	
DIE 6568	Research Methods in	
	Dietetics	3
DIE 6937	Graduate Seminar in	
	Dietetics (two	
	semesters)	1
DIE 6971	Thesis in Dietetics and	
	Nutrition	6
STA 6166	Statistical Methods in	
	Research	3

Nutrition Core: (9)

Students must take at least three out of five courses. One course must be in macronutrients, one in micronutrients. HLIN 5245 Nutrition and

	Biochemistry	3
HUN 6307	Carbohydrates and	
	Lipids	3
HUN 6327	Proteins	3
HUN 6335	Functions of Vitamins	3
HUN 6355	Minerals in Human	
	Nutrition	3

Anthropology

Advanced Techniques

3

3

3

3

3

Recommended Electives¹: (14) Graduate Medical

ANT 6469

DIE 6368

HUN 6266

	in Dietetic Practice	2
DIE 6368L	Advanced Techniques	
	in Dietetic Practice Lab	1
DIE 6929	Specialized Short	
	Course in Dietetics and	
	Nutrition	ŀ
FOS 6236	Food Toxicology and	
	Food Safety	3
HUN 5123	Ethnic Influences on	
	Nutrition and Food	

Habits Food, Nutrition and HUN 5621 Communication **HUN 6248** Sports Nutrition HUN 6249 Nutrition and Physical

	Function	
HUN 6254	Drug and Nutrient	
	Interaction	

HUN 6255	Nutrition and Wellness	3
HUN 6257	Physio/Psychology of	
	Food Intake	3

Nutritional Assessment 3

HUN 6295	porary Issues in			
	nd Nutrition 3			
HUN 6435	on and Aging 3			
HUN 6522	Health Nutrition 3			
¹ Courses th	not listed as			
recommended electives may be taken as				
approved by advisor/Program Director.				

Doctor of Philosophy in Dietetics and Nutrition

Students' course work will be planned to support the research interests and career goals with the advisor and the dissertation committee. Maintenance of 3.0 GPA, and student may not receive more than 1 grade of "C+" or less.

Required Courses

Research (minimum 5 credits)

Laboratory Research HUN 6811 Methods in Dietetics & Nutrition¹ 2

DIE 6578 Oualitative Research Methods in Dietetics & Nutrition1 DIE 7566 Research Concept

Development in Dietetics & Nutrition1 3 ¹Prerequisite: STA 6166

DIE 6568 ¹Corequisite: STA 6167

Seminar (3 credits)

DIE 6937 Graduate Seminar in Dietetics & Nutrition (course may be repeated 3 times, minimum)

General Applied Dietetics & Nutrition (minimum 6 credits)

DIE 6368 Advanced Techniques in Dietetic Practice DIE 6368L Advanced Techniques in Dietetic Practice Lab HUN 5123 Ethnic Influences on Nutrition and Food Habits 3 Food Nutrition and HUN 5621 Communication HUN 6295 Contemporary Issues in Food & Nutrition 3

Nutrition Science (minimum 6 credits)

HUN 6327 Proteins 3 HUN 6328 Carbohydrates and Lipids 3 Functions of Vitamins 3 HUN 6335 HUN 6355 Minerals in Human Nutrition 3

Dissertation

DIE 7980 12-24 Dissertation

Collaterals

With the assistance of a major professor and dissertation committee, a Program οf Studies with complementary areas bе will developed.

23-24

Course Descriptions

Definition of Prefixes

DIE-Dietetics: FOS-Food Science: FSS-Food Service Systems; HUN-Human Nutrition F-Fall semester offering; S-Spring

semester offering; SS-Summer semester offering.

DIE 5247 Trends in Therapeutic Nutrition (3). Evaluation interpretation of current research in dietary care of metabolic diseases. Prerequisite: Diet therapy or approval of the instructor.

5936 Advanced Practice Seminar (1-3). Designed to provide didactic components in tandem with practice learning experiences in health care institutions. Covers material in clinical dietetics, management, and community nutrition. Utilizes a team approach and will draw on specialists from all areas of dietetics. Corequisites: DIE 5946, DIE 5947, DIE 5948 or Permission of the instructor. (S)

DIE 5946 Advanced Practicum in Community Nutrition (1-6). Preplanned clinical progressional experience in community nutrition. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (S)

DIE 5947 Advanced Practicum in Dietetic Administration and Management (1-6). Pre-planned clinical experience at the professional level in dietetic administration and management. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 5948 Advanced Practicum in Clinical Nutrition (1-6). Pre-planned clinical experience at the professional level in clinical therapeutic nutrition. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 6128 Advanced Management of Dietary Systems (3). Application of management and organizational theory to dietetic systems in health and community institutions.

DIE 6256 Enteral Nutrition (3). The specific indications for enteral feeding are discussed with special emphasis on the unique requirements, and feeding techniques for specific disease states. Prerequisites: Physiology, Biochemistry, DIE 3244 and DIE 4246.

DIE 6257 Parenteral Nutrition (3). Clinical and metabolic advances in the parenteral feeding of the adult patient in relation to specific disease states. Prerequisites: Physiology, Biochem-

DIE 6259 Management of Nutrition Services (3). Anaylsis of interdisciplinary nutrition services delivery with emphasis on management models and theories regarding division of work. quality improvement and productivity, leadership, motivation and planning, organizing, staffing, directing, and controlling.

DIE 6367 Entrepreneurial Dietetics (3). Focus on the dietitian as an owner/partner or top level manager. Emphasizes business management principles as applied to dietetics and nutrition. Prerequisite: DIE 6128 or equivalent.

DIE 6368 Advanced Techniques in Dietetic Practice (2). Techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4435L or equivalent. Corequisite: DIE 6368L. (S. even years)

DIE 6368L Advanced Techniques Dietetic Practice Lab (1). Individual practice in conducting interviews, planning nutritional care, changing nutritional behavior, and providing dietetic consultation. Prerequisite: of the instructor. Permission Corequisite: DIE 6368. (S, even years)

DIE 6438 Dietetic Programs for Post Secondary Settings (3). Review of techniques and materials. Emphasis on preparing documents for accreditation and approval of dietetic programs. Permission of the Prerequisite: instructor.

DIE 6565 Computer Application in Dietetic & Nutrition Research (3). Application of various computer software programs to research problems. Prerequisite: Permission of the instructor.

DIE 6568 Research Methods in Dietetics (3). Consideration scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: STA 6166 or permission of the instructor.

DIE 6578 Qualitative Research Methods In Dietetics (3). Application of qualitative research methods including field and case study approaches in interpreting and designing research studies. Introduction to interdisciplinary research. Prerequisite: DIE 6568.

DIE 6906 Readings in Dietetics and Nutrition (1-3). Individual advanced study in a comprehensive overview of dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of the instructor and advanced standing in graduate program. (F,S,SS)

DIE 6907 Individual Study lo Dietetics (1-3). Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Instructor. (F,S,SS)

DIE 6915 Supervised Research (1-3). Continuation of thesis research under thesis advisor. Repeatable. Prerequisite: Completion of all other required course work. (F,S,SS)

DIE 6929 Specialized Short Courses in Dietetics and Nutrition (1-3). Intense courses on specialized topics in dietetics and nutrition for the advanced student or professional. Topic based on current nutrition concerns. Prerequisites: Advance graduate standing and Permission of the instructor.

DIE 6935 Special Topics in Dietetics (3). In-depth study of historical. epidemiological, prevention. treatment aspects of topics related to dietetics. Prerequisites: Competence in topic covered, admission to graduate program.

DIE 6937 Graduate Seminar in Dietetics and Nutrition (1). Presentations by researchers and doctoral students on studies, theories, applications; journal club presentations by students. Two semesters enrollment. M.S. students: three semesters Ph.D. students. (F,S)

DIE 6971 Thesis in Dietetics and Nutrition (1-6). Prerequisites: DIE 6568 or DIE 6578 or HUN 6811, 12 hours of graduate study and permission of Thesis advisor. (F,S,SS)

DIE 7437L Nutrition Counseling Supervision (2). Covers techniques for advising on food choices and providing support for life style changes to meet wellness goals or treat diseases. Prerequisites: DIE 6368 and DIE 6368L.

DIE 7566 Research Concept Development in Dietetics and Nutrition (3). Grant proposal writing for dietetic and nutrition research. Prerequisite: DIE 6568, STA 6166, and STA 6167.

DIE 7980 Ph.D. Dissertation (1-12). R-search for doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

FOS 6236 Food Toxicology & Food Safety (3). Discusses food and water borne bacterial, parasitic, and viral infections and intoxication. Examines food additives, and contaminants. Describes toxic food constituents as well as naturally occurring toxicants. Prerequisites: Graduate standing and food science competency.

FSS 6317 Human Resources Management in Nutrition Services (3). Application of human resources theory nutrition services: raising productivity and service quality. Prerequisite: Advanced management course.

FSS 6367 Operations Analysis in Food Service and Nutrition Care Systems (3), Models and methods of budget and service forecasting related to food service and nutritional care in large and small institutions of short and long term care. Prerequisites: Advanced graduate standing, DIE 6128 or equivalent.

FSS 6535 Computer Assisted Food and Nutritional Services Management (3). Advanced course in computer analysis and utilization for detection and resolution of problems of food service and nutritional care. Prerequisites: Advanced graduate standing, DIE 6128 or equivalent, and computer competency.

FSS 6535L Computer Assisted Food and Nutritional Services Management Lah (1). Laboratory application in computer analyses and utilization in food services and nutrition care. Prerequisite: Advanced Graduate Standing. Corequisite: FSS 6535.

GEY 5005C Issues in Gerontology for Health Professions (3). This course examines social, economic, and demographic issues challenging older adults and health care professionals providing services to this age group.

GEY 5006 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

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 developing countries; emphasis on programs, planning and policies directed toward alleviating hunger. Prerequisite: Permission of the instructor. Recommended for nonmajors.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: Organic Chemistry and Physiology

HUN 5611 Nutrition Education in the Community (3). In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisite: Recent courses in nutrition education or Permission of the instructor.

HUN 5621 Food, Nutrition and Communication (3). Concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis on communication via mass media. Prerequisites: Competency in food and nutrition knowledge.

HUN 6196 Food Economics (3). Indepth study of forces and policies affecting the procurement, preparation and utilization of food in society. Prerequisite: Advanced graduate standing.

HUN 6248 Sports Nutrition (3). The influence of exercise on specific nutrient demands and utilization of nutrients will be examined. Nutritional requirements and interrelationships between nutrition and exercise in the prevention and mangement of common diseases such as obesity, hypertension, diabetes and cardiovascular disease will also be discussed. Prerequisite: Human Nutrition and Intermediate Physiology. (5, odd years)

HUN 6249 Nutrition and Physical Function (3). Covers food intake as it relates to physical development and physical performance. Emphasis will be on subgroups of the population. Prerequisites: Competence in nutrition and physiology and advanced graduate standing.

HUN 6254 Drug and Nutrient Interaction (3). The interaction of drug and nutrient metabolism in relation to optimum nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

HUN 6255 Nutrition in Wellness Program (3). Examination of required factors for successful development, implementation and evaluation of wellness programs and investigation of interrelationships between nutrition/physical activity as means of chronic disease risk reduction. Prerequisite: Advanced Nutrition and Nutrition Education.

HUN 6257 Physio/Psychology of Food Intake (3). Examination of food intake regulation with applications in both research and practice. Prerequisite: Competence in nutrition and physiology

HUN 6266 Nutritional Assessment (3). In-depth study of the methodology and application of nutritional assessment. Prerequisites: Advanced Nutrition, physiology, and biochemistry. HUN 6295 Contemporary Issues in Food and Nutrition (3). Critical evaluation of current controversies in nutrition and dietetics research. Prerequisite: Advanced Nutrition, Biochemistry, Physiology, Research Methods.

HUN 6307 Carbohydrates and Lipids (3). The biological, physiological and metabolic functions of carbohydrate and lipids as they relate to human nutrition. Prerequisites: Biochemistry, Advanced Nutrition and Physiology.

HUN 6327 Proteins (3). Protein metabolism, physiology and nutrition. Prerequisite: Biochemistry, Advanced Nutrition, and Physiology.

HUN 6335 Functions of Vitamins (3).
Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, even years)

HUN 6355 Minerals in Human Nutrition (3). The physiological and metabolic functions of selected macro and trace minerals as they relate to nutritional status in humans. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, odd years)

HUN 6435 Nutrition and Aging (3). Changes associated with aging and the impact of nutrition on these changes. Perrequisite: Permission of the instructor. (S, odd years)

HUN 6522 Public Health Nutrition (3). Development and assessment of nutrition programs for the general population throughout the life cycle. Prerequisite: DIE 3317 or equivalent.

HUN 6811 Laboratory Research Methods in Dietetics (2). Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of instructor.

IHS 4111 Ethical Perspectives in Health and Urban Affairs (3). Explores individual and organizational values, related theories, ethical system and their influence on behavior of individuals in government agencies, law enforcement and health care professions.

Occupational Therapy

Patricia Scott, Chairperson, Associate Professor

Alma Abdel-Moty, Clinical Assistant Professor and Undergraduate Coordinator

Lori Andersen, Visiting Clinical Associate Professor

Elise Bloch, Clinical Assistant Professor

Gail Ann Hills, Professor Susan Kaplan, Associate Professor Pamela Shaffner, Clinical Associate

Professor

Agnes Sheffey, Professor and Clinical

Coordinator

Master of Science in Occupational Therapy

The curriculum is composed of three main components: a core of occupational therapy courses to increase understanding of the theoretical bases and current issues of occupational therapy practice; a research core to develop critical problem solving, research, and writing skills; and a clinical area of emphasis such as aging or pediatrics that students design with approval of faculty. In the clinical area, students have the opportunity to take four elective courses and develop projects and papers in addition to their theses in their areas of clinical interest. The course of study is designed for advanced study for certified occupational therapists and permits part-time enrollment.

Admission Requirements

To be admitted to the Master's degree program students must:

Hold a Bachelor's degree from an accredited institution.

 Have completed an accredited curriculum in Occupational Therapy. Students who have not completed an accredited curriculum in occupational therapy can be admitted to the Master's program, but must also complete the Occupational Therapy Certificate.

3. Have a minimum of 3.0 GPA average based on a 4.0 scale in upper division courses of the Bachelor's degree, and a combined score of 1000 (verbal and quantitative parts) on the Graduate Record Examination (GRE). All students are required to take the GRE.

 Have a basic statistics course (STA 6166 Statistical Methods I is preferred). 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 pro-ficiency in the English language by a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

8. Registered Occupational Therapists are admitted continuously.

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 or project.

A maximum of six credits of graduate course work may be transferred from other institutions, subject to the approval of the departmental graduate committee.

Required Courses: (36 credits)

Occupational Therapy Core

OTH 6009 Current Issues and
Theories of
Occupational Therapy 3
OTH 6265 Measurement and
Assessment in
Occupational Therapy 3

OTH 6215 Advanced Occupational Therapy Intervention Strategies

OTH 6948 Strategies 3

Continuing Clinical

Competence for

Occupational Therapists 3

Research Core

 STA 6166
 Statistical Methods in Research I
 3

 OTH 5760
 Current Research in Occupational Therapy
 3

 OTH 6970
 Master's Thesis
 6

 or
 OTH 6972
 Master's Project
 6

Clinical Specialty Component

Combination of Occupational Therapy and University electives in an identified area of clinical interest approved by the faculty.

Occupational Therapy Certificate

The certificate program can only be taken concurrently with the Master of Science in Occupational Therapy. It is designed for the student who already holds a Bachelor's degree in a field other than Occupational Therapy. Students admitted to this program will apply to the Occupational Therapy department as graduate students. Students may attend either part time or full time.

Admission to the program for those who are not already therapists is competitive and the average GPA is over 3.0 with a GRE of at least 1000.

The Occupational Therapy Certificate Program is accredited by the Accreditation council for Occupational Therapy Education (ACOTE) of the American Occupational Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220. Bethesda, MD 20824-1220. AOTA's phone number is (301) 5652-AOTA. Graduates of the program will be able to sit for the national certification examination for occupational therapists administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice. Your eligibility for state licensure or certification may be at risk if you have been convicted or found guilty, regardless of ajudication which directly relates to the practice of occupational therapy or to the ability to practice occupational therapy. A plea of nolo contendere shall be considered a conviction for the purposes of this part.

Application Deadlines are April 15th for Fall term admission and October 15th for Spring tem admission.

Prerequisites

Biology and lab
 or Anatomy/Physiology I and II with
labs

(students who have completed Anatomy/Physiology I and II with labs have met the prerequisites for Biology with lab, but not anatomy)

Physiology (3 credits) or Anatomy/Physiology I and II with labs

(students who have completed Anatomy/Physiology I and II with labs have met the prerequisites for Physiology, but not anatomy). 3. Theories of Personality

6

3

4. Abnormal Psychology	3
5. Human Growth and Development	3
6. Statistics (STA 6166 Statistical	
Methods I preferred)	3
7. Human Anatomy with lab1	4
8. Neuroscience ^{1,2}	4

¹These courses must be numbered 3000 or above. 2If not taken as prerequisite, may be taken after admission to the master's program.

Required Courses for Certification in OT on the way to the Master's degree:

•	Master's degree.
(51)	
OTH 5011	Theories & Practice
	of O.T.
OTH 5162	Adaptation of Human
	Occupation 3
OTH 5202	Occupational
	Development
	Throughout the Lifespan
OTH 5414	Analysis & Adaptation
	Human Motion 3
OTH 5414L	Analysis & Adaptation
	Human Motion Lab 1
OTH 5429	Biomechanical & Rehab
	App in OT 3
OTH 5429L	Biomechanical & Rehab
	App in OT Lab
OTH 3416	Mechanism of Disease
01110	& Dysfunction in OT 3
OTH 4504	Neuromotor Approaches
	in OT I 4
OTH 4426	Neuromotor Approaches
	in OT II 3
OTH 4426L	Neuromotor Approaches
• • • • • • • • • • • • • • • • • • • •	in OT II Lab
OTH 5324	Clinical Intervention for
	Persons with
	Neuropsychiatric &
	Cognitive Disorders 4
OTH 4761	Professional Issues OT 2
OTH 5760	Current Research in
	O.T. 3
OTH 4850	Fieldwork II 5
OTH 4851	Fieldwork II 5
	dwork must be completed
within 24 mo	nths of the didactic course
work.	

Course Descriptions

Definition of Prefix

GEY - Gerontology OTH - Occupational Therapy F-Fall semester offering; S-Spring semester offering: SS-Summer semester offering.

GEY 5005C Issues in Gerontology for Health Professions (3). This course examines social, economic, and demographic issues challenging older

sdults and health care professionals providing services to this age group.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

OTH 5011 Theories and Practice of Occupational Therapy (3). The theoretical foundations of occupational therapy and issues affecting professional practice. (SS)

OTH 5162 Adaptation of Human Occupation (3). Through development of an understanding of the components and nuances of human occupation. students will develop skills needed to promote optimal performance through simulation and adaptation of life tasks. (SS)

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation of client's workplace for the disabled. Prerequisite: Admission to program or Permission of the instructor (occasional elective).

OTH 5202 Occupational Development Throughout the Life Span (4). Occupation throughout the life span including social, cultural. environmental factors on occupational competence. (F)

OTH 5213 Pediatric Seminar: School Based Occupational Therapy (3). Course designed to provide students with necessary skills and specific knowledge to practice occupational therapy effectively in the educational setting. One week fieldwork. Interdisciplinary classes with physical therapy. Prerequisite: Permission of the instructor.

OTH 5214 Occupational Therapist Role in Family Centered Care (3). Course designed to orient O.T. students to family-centered care issues, such as legislation, cultural issues, family systems and empowerment strategies, in order to prepare them for clinical practice. Prerequisite: Permission of the instructor.

OTH 5280 Role of Environment in Occupational Therapy (3). Assessing the influence of environmental factors on OT practice in specific field settings. Prerequisite: Admission to program.

OTH 5324 Clinical Intervention for Persons with Neuropsychiatric & Cognitive Disorders (4). Develops clinical reasoning abilities in the selection of assessment and treatment strategies for individuals with cognitive and neuropsychiatric disorders. (S)

5326 Psychiatric O.T.: Contemporary Theory and Practice (3). Examination of contemporary knowledge relevant to the theory and practice of O.T. in psychiatry. Prerequisite: Admission to Program or Permission of the instructor.

OTH 5345 Occupational Therapy Program Development in Psychiatry (3). Seminar discussion and practical experience in OT programming in psychiatry. Prerequisite: Admission to program or Permission of the instructor.

OTH 5405C Analysis of Therapeutic Procedures in Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theory based assessment problem identification and treatment for the physically disabled adult.

OTH 5406 Sensory Problems and Therapeutic Implications (3). An indepth study of sensory problems and the implications for therapy. A variety of patient populations and clinical applications will be discussed. Prerequisite: Graduate standing or Permission of the instructor (occasional elective).

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisite: Admission to the program or Permission of the instructor (occasional elective).

OTH 5414 Analysis & Adaptation in (3). Presents Motion Human anatomical, physiological, and biomechanical principles of human motion & biomechanical frame of reference in adaption with biomechanical problems. (F)

OTH 5414L Analysis & Adaptation in Human Motion Lab (1). Laboratory to accompany OTH 5414, Analysis & Adaptation of Human Motion in OT. (F)

OTH 5429 Biomechanics & Rehabilitative Approaches in OT (3). Biomechanics and rehabilitative frames of reference as they focus on body parts and occupational performance.

OTH 5429L Biomechanics & Rehabilitative Approaches in OT Lab (1). Lab to accompany OTH 5429 Biomechanics & Rehabilitative Approaches.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3). In depth instruction in approaches to the neurologically impaired patient. Emphasis will be on dysfunction due to stroke or head injury. Prerequisite: OTH 4422 or equivalent.

OTH 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit.

Prerequisite: Majors only.

OTH 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTH 5603 Role of Occupational Therapist in Family Centered Care of Elderly (3). Issues related to caregiving of elder and caregivers including autonomy, cultural influences and family systems. Prerequisites: Permission of Instructor.

OTH 5610 Foundations in Gerontology for Health Professions (3). Implication for health professions of the biological, cross-culturals, physiological, psychological, social, and societal contexts of aging.

OTH 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly. Prerequisite: Aging course or work experience with elderly, Permission of the instructor.

OTH 5630 OT Assessment of the Elderly (3). Study of assessment techniques appropriate for OT evaluation of the elderly. Prerequisite: Admission to program.

OTH 5751 Rehabilitation Seminar in Occupational Therapy (3). A seminar designed to gain an understanding of OT clinical practice areas in rehabilitation. Various clinicians will present their perspectives of organizational structure, populations served, evaluation and treatment approaches. Prerequisite: Permission of the instructor.

OTH 5760 Current Research in Occupational Therapy (3). Review of statistical concepts and research procedures in the clinical setting, with in-depth study of the current status of research in occupational therapy. (S)

OTH 5764 Research in a Clinical Speciality (3). Participation in ongoing research of faculty members in clinical speciality area. Prerequisite: Permission of the instructor. (SS)

OTH 5765 Research in Clinical Practice (3). Students identify a research topic and questions based on observation of clinical problems during field visits.

OTH 5805 Service Learning in Health (3). Student's learning is centered on a community service experience which meets specific principles of service learning. Prerequisite: Admission to graduate students or graduate certificate students in aging admitted by Permission of the instructor.)

OTH 5905 Independent Study (Variable Credit). (F,S,SS)

OTH 5934 Evaluation and Treatment of Hand Dysfunction (3). Seminar in current issues related to the assessment and treatment of common injuries of the hand (occasional elective).

OTH 5938 O.T. Theoretical Perspectives in Health Therapy (3). This seminar course is designed to examine the OT's role in the prevention of both physical and mental diseases. It will demonstrate and diseases. It will demonstrate and diseases how OT foundational under-pinnings provide the tools therapists need to guide patients and clients toward lifestyle behaviors which can prevent or delay disease onset and foster functional adaptation. Prereq-uisite: Permission of the instructor.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program.

OTH 6265 Measurement and Assessment in Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisite: Admission to program or Permission of the instructor.

OTH 6507 Occupational Therapy for Occupationally Dysfunctional Children & Adolescents. Exploration of factors leading to successful adaptation to occupational roles, are explored with particular emphasis on the relationship between these factors and Occupational Therapy theory. Prerequisite: Permission of the instructor.

OTH 6538 Advanced Methods in Pediatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 6542 Role of the Occupational Therapist in the School System: A Consultation Model (3). Course introduces consultation as a viable service provision option to enable occupational therapists to create more effective living and learning environments on behalf of children. Prerequisite: Permission of the instructor.

OTH 6548 Advanced Methods in Pediatric Occupational Therapy (3). Advanced application of theory and research in occupational therapy. Includes neurodevelopmental treatment approaches, neonates through adolescents. Prerequisite: OTH 6538.

OTH 6937 ADA Workplace
Accommodations of Persons with
Disabilities (3). Interdisciplinary
course designed students of both rehabilitation and
business/management disciplines to
develop strategies to implement the
Title 1-Workplace provision of the
Americans with Disabilities Act.
(ADA).

OTH 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project.

OTH 6970 Master's Thesis (1-6). Supervised research on a research project submitted in partial fulfillment of Master's degree requirement. Prerequisite: Permission of major professor. (F,S,SS)

OTH 6972 Master's Project (1-6). An individually supervised project for occupational therapy graduate students.

Physical Therapy

Helen Z. Cornely, Associate Professor and Chair

Steven Bernstein, Clinical Assistant Professor

Leonard Elbaum, Associate Professor Lori Gusman, Clinical Assistant Professor & Academic Clinical Coordinator

Awilda R. Haskins, Associate Professor

Steve Janos, Visiting Clinical Assistant Professor

Neva Kirk-Sanchez, Assistant Professor Joyce Maring, Clinical Assistant

Professor Lisa Roberts, Visiting Clinical

Assistant Professor Colleen Rose-St. Prix, Associate Professor

About the Department

The Department of Physical Therapy is part of the School of Health, which in turn is a part of the College of Health and Urban Affairs.

The Mission of the Physical Therapy Department is to meet the physical therpay needs of the local, state, national, and international community by:

- providing masters level physical therapy education,
- advancing the knowledge base of physical therapy,
- and by developing innovative model physical therapy service programs.

Our curriculum is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE), and has been since its inception in 1975, allowing graduates of the program to apply for licensure as Physical Therapists throughout the United States. The 25-year licensure examination pass rate is over 95%.

The department occupies over 6,000 square feet of offices and laboratories on the University Park Campus of FIU. It moved to the new Health and Life Sciences building when it opend in Fall of 2002. The departmental inventory includes the full range of clinical equipment used by practicing physical therapists, and is continually updating equipment to support faculty and student research projects. Kinesiology Laboratory houses several state of the art computer systems with the capability to analyze human movement with high speed digital video, force sensors, and surface electromyography.

There are 9 full-time faculty members, and numerous adjunct Collectively, the faculty faculty. possess well over 100 years of and clinical research. teaching, experience.

The clinical and research interests of the faculty range from pediatrics to geriatrics, and from neuroscience to biomechanics. Several faculty members specialize in the impact of social, psychological, and cultural factors on health care delivery and education.

The faculty prides itself on its intellectual, cultural, racial, and ethnic diversity. There are approximately 200 students in the department, including graduate students in the Professional Preparation (Entry-level) Master of Sciences Program, and the Postprofessional (Advanced) Program, undergraduates in the BS-Health Sciences-Physical Therapy Track, and special students.

The curriculum features a progressive, problem-oriented approach and includes rigorous coverage of the full range of basic medical sciences, clinical sciences, and hands-on skills relevant to the practice of physical therapy, now and in the future.

Academic Programs

The department currently offers three different degree programs.

- Bachelor of Health Science, Pre-Physical Therapy Track
- Professional Preparation (Entrylevel) Master of Science in Physical Therapy
- Post-Professional Master of Science in Physical Therapy

If you are a high school student, or a college student who has not yet earned your undergraduate degree, you should consider the Bachelor of Health Science, Pre-Physical Therapy Track. Please refer to the School of Health Sciences section of the catalog for further information.

Professional Preparation (Entry-level) Master of Science in Physical Therapy

About the progam

This program is designed for those who already possess a bachelor's degree, and who wish to become practicing physical therapists. If you do not have a bachelor's degree, you might be interested in our Bachelor of Health Sciences-Physical Therapy Track.

The program is rigorous, and is recommended only for highly motivated students with proven records of success as undergraduates.

Upon completion of this program, students will earn a Master of Science (MS) degree, and will be eligible to apply for licensure as a Physical Therapist anywhere in the United States and several other jurisdictions.

The program of studies includes 81 credits of didactic and laboratory training. It is designed for full-time students, and requires 7 semesters of full-time study. Admission to the program is limited to approximately 36 students per year.

Requirements:

- Admission into FIU as a graduate student.
- A bachelor's degree.
- Completion of the GRE.
- A combined GRE Quantitative/Verbal Score of at least 1,000, and GPA of 3.0 in the 60 hours undergraduate coursework.

Completion of the following prerequisites courses:

Chemistry with laboratories Developmental Psychology 3 General Biology Human Anatomy** 3 Human Physiology Exercise Physiology 8 Physics with laboratories 3 Psychology Statistics

**Three credits are required, but 8 credits (6 Lecture, 2 Laboratory) of Human Anatomy cadaver dissection highly recommended (eg. ZOO3733, 3733L, 3734 and 3734L at FIU).

Admission

Applications will be admitted upon departmental approval from the Graduate Admissions Committee.

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).

Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned. If the applicant's native language is not English, the applicant must demonstrate proficiency in the English language by presenting a score of 550 or higher on the Test of English as a Foreign Language (TOEFL).

Students must submit a supplemental application directly to the Department in addition to their application for Graduate Admission to FIU. Application and Instructions are available from the departmental office or website:

http://physicaltherapy.fiu.edu.

Deadlines

Students may begin the program in the Fall term only. Students applying for the Fall semester must submit their application no later than June 14, however the Admissions committee will be selecting students on or about January 15, February 15, April 15, and June 15. The Department has limited capacity, and capacity may be filled well before the deadline date. Early application is strongly encouraged.

Program of Studies

Fall Semester	-1		
PHT 5174	Analysis of Movement		
	and Function	3	
PHT 5174L	Analysis of Movement		
	and Function Lab	I	
PHT 5523	Dimensions of		
	Professional Practice		
	Seminar I	3	
PHT 5205	Clinical Skills Lecture	3	
PHT 5205L	Clinical Skills Lab	1	
ZOO 5xxx	Applied		
	Musculoskeletal		
	Systems	3	
ZOO 5xxxL	Applied		
	Musculoskeletal		
	Systems Lab	1	
Spring Semes	•		
PHT 5027	Clinical Education		
	Seminar	1	
PHT 5180	Musculoskeletal		
	Diagnosis and		
	Management 1	3	
PHT 5180L	Musculoskeletal		
	Diagnosis and		
	Management I Lab	1	
PHT 5524	Dimensions of		
	Professional Practice		
	Seminar II	3	
PHT 6341	Diagnosis and		
	Management of Disease	3	
PHT 6341L	Diagnosis and		
	Management of Disease		
	Lab	1	
Summer Semester 1			

Musculoskeletal

Diagnosis and

Management II

Musculoskeletal

Management II Lab

Diagnosis and

3

1

PHT 5181

PHT 5181L

PH 1 3303C	Physical Therapy	
	Constructs of Health	3
PHT 5960	Comprehensive Exam I	1
PHT 5805	Clinical Internship I	3
Fall Semester	2	
PHT 5182	Musculoskeletal	
	Diagnosis and	
	Management II1	3
PHT 5182L	Musculoskeletal	
	Diagnosis and	
	Management III Lab	2
PHT 5525	Dimensions of	
	Professional Practice	
	Seminar III	3
PHT 6163	Neurological Diagnosis	
	and Management I	3
PHT 6163L	Neurological Diagnosis	
	and Management I Lab	1
Spring Semes		
PHT 6164	Neurological Diagnosis	
	and Management II	3
PHT 6164L	Neurological Diagnosis	
	and Management II Lab	1
PHT 6381	Diagnosis and	
0501	Management of	
	Cardiopulmonary	
	Systems	3
PHT 6381L	Diagnosis and	•
05012	Management of	
	Cardiopulmonary	
	Systems Lab	1
PHT 6817	Clinical Internship II	3
Summer Sem		•
PHT 6169	Neurological Diagnosis	
	and Management III	3
PHT 6169L	Neurological Diagnosis	-
1111 0107E	and Management III	
	Lab	1
PHT 6526	Dimensions of	•
111 0520	Professional Practice	
	I to to so so that I faction	

PHT 5505C Physical Therapy

Thesis Post-Professional (Advanced) Masters Degree Program

Seminar IV

Thesis

Comprehensive Exam II 1

3

3

Master's Project or

Clinical Internship III

Clinical Internship IV

Master's Project or

PHT 6961

PHT 6827

PHT 6828

PHT 6970/1

PHT 6970/1

Fall Semester 3

The Post-professional (Advanced) Master's Degree Program is designed to enable physical therapists to pursue attainment of advanced education and research skills in the area of geriatric physical therapy.

In most cases, physical therapists completeing the post-professional master's degree program can simultaneously earn a graduate certificate in gerontology.

The curriculum is comprised of three basic components: gerontology courses designed to increase understanding of the theoretical basis and current issues of physical therapy practice with elders: 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 physical therapy and in other areas of interest. The program permits part-time as well as full-time study. The physical therapists that elects to complete the program on a full-time basis can complete the physical therapy coursework in three 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:

 Provide physical therapists with advanced skills for diverse settings.

 Prepare individuals to apply scientific principle of human movement, including identification, prevention, assessment and correction of acute or chronic movement dysfunction.

 Provide physical therapists with advanced skills and knowledge commensurate with the expanding need for health care services.

Requirements for Admission

 Bachelor's degree in physical therapy or the equivalent from an accredited institution.

 A minimum grade point average of 3.0 based on a 4.0 scale (upper division) and a combined score of 1000 (verbal & quantitative parts) on the Gradaute Record Exam (GRE).

 Evidence of graduation from an institution accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).

oг

A transcript evaluation by a credentialing service approved by the Florida Board of Physical Therapy Practice that concludes that the applicant's degree is equivalent to one from a CAPTE-accredited progam. To obtain a list of credentialing agencies, contact:

Florida Board of Physical Therapy Practice 4052 Bald Cypress Way Tallahassee, FL 32399-3255 (850) 245-4373

http://www.fpta.org/fpta/BoradofPT/agencie s.html.

- 4. 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.
- 5. A curriculum vita/resume
- 6. A summary statement of professional and educational goals and assessment of current professional activities (attached to resume); and
- 7. A copy of a license to practice physical therapy in the State of Florida or other jurisdiction.

The Curriculum

The Post-professional Master Science in Physical Therapy consists of 36 credits including thesis or master's project. Fifteen to eighteen credits of graduate level physical therapy courses must be taken. Additional required courses include a minimum six to nine graduate credits of electives, a graduate research course, and a graduate-level statistics course.

Students who complete the BS degree in Physical Therapy at an institution not accredited by CATPE and whose transcript evaluation identifies one or more deficient content areas may be required to complete additional course work covering the identified content areas.

A maximum of six credits of graduate work may be transferred from other institutions, provided they are approved by the departmental graduate committee, deemed equivalent to program requirements, and 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, deemed equivalent to program requirements and compliance with the University's graduate policies and procedues.

The curriculum is described below:

eurs):	
Foundations in	
Gerontology	3
Phys. Change and	
Healthy Aging	3
Issues in Gerontology	3
Select 6-9 credits from	
courses):*	
Disability Awareness	3
	Foundations in Gerontology Phys. Change and Healthy Aging Issues in Gerontology (Select 6-9 credits from courses):*

PHT 5504	Service Learning in	
	PT	1-3
PHT 5505C	PT Constructs of Health	3
PHT 5523**	Dimensions of	
	Professional Practice 1	3
PHT 6905	Independent Study	3
	(may be repeated)	
Research Con	mponent (12 credits):	
STA 6166	Statistical Methods 1	3
HUA 6xxx	Quant. Tech. In	
	Research for Health and	
	Urban Affaris	3
PHT 6970	Master's Project	3
OF		
PHT 6971	Master's Thesis	3
Electives (6-9	credits):	
Area of Intere	st	6-9
*May substitution of	tute other courses with advisor	i
F		

Admissons

Applicants will be admitted upon approval from the departmental Graduate Admissions Committee.

**Required for physical therapists with

entry level bachelor's degrees from

non-CAPTE-accredited PT programs.

An applicant who fails to meet the regular admissions criteria may apply to be considered under the Board of Education 10% waiver policy (up to 10% of graduate students can be admitted in any one year as exceptions to the regular policy).

Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned. If the applicant's native language is not English, the applicant must demonstrate proficiency in the English language by presenting a score of 550 or higher on the Test of English as a Foreign Language (TOEFL).

Students must submit a supplemental application directly to the Department in addition to their application for Graduate Admission tο FIU. Application and Instructions are available from the departmental office or website

Deadlines

Applications are accepted throughout the year, and accepted students may begin in any term.

Course Descriptions

Definition of Prefixes GEY - Gerontology PHT - Physical Therapy

GEY 5005C Issues In Gerontology for Health Professions (3). This course examines social, economic, and demographic issues challenging older sdults and health care professionals providing services to this age group.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

5027 Clinical Education Seminar (1). This course is designed to address pre-requisite clinical education issues that historically contirbute to the overall success in the clinical internships. Topics range from use of the evaluation tool to taxonomies of learning. Prerequisite: Admission to Professional PT Curriculum or permission of department.

PHT 5045 Applied Educational Theory in Physical Therapy (3) The application of teaching and learning principles to Physical Therapy patient education, student clinical education, and continuing education. A variety of teaching methodologies will be practiced by participants. Prerequisite: Admission to PT Professional Program or permission of department.

PHT 5174 Analysis of Movement and Function (3). The course is designed to give physical and/or occupational therapy students the cognitive skills necessary to analyze human movement in the context of physical therapy practice. Prerequisite: Admission to PT Professional Program or permission of department. Corequisites: PHT 5174L.

PHT 5174L Aanlysis of Movement and Function Lab (1). The course is designed to give physical and occupational therapy students the psychomotor skills necessary to analyze human movement in the context of PT practice. Prerequisite: Admission to PT Professional Program or permission of department. Corequisites: PHT 5174.

PHT 5180 Musculoskeletal Diagnosis and Management I (3). This course is designed to prepare the student in the area of physical therapy related musculoskeletal diagnosis treatment with focus on upper extremities. Prerequisite: Admission to PT-Professional Program or permission of department. Corequisites: PHT 5180L.

5180L Musculoskeletal Diagnosis and Management I Lah (1). This is the laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisite: Admission to PT Professional Program or permission of department. Corequisites: PHT 5180.

PHT 5181 Musculoskeletal Diagnosis and Management II (3). This is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis treatment with focus on lower extremities. Prerequisites: PHT 5180 and PHT 5180L. Corequisites: PHT 5181L.

PHT 51811. Musculoskeletal Diagnosis and Management II Lab (1). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisite: PHT 5180 and PHT 5180L. Corequisites: PHT 5181.

PHT 5182 Musculoskeletal Diagnosis and Management III (3). This course is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis treatment with focus on the spine. Prerequisites: PHT 5180 and PHT 5180L. Corequisites: PHT 5182L. PHT 5181 and PHT 5181L.

5182L Musculoskeletal Diagnosis and Management III Lab (2). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis specific to the spine. Prerequisites: PHT 5180 and PHT 5180L. Corequisites: PHT 5182, PHT 5181 and PHT 51811...

PHT 5205 Clinical Skills (3). Utilizing a seminar format, this course will provide the student with the theory and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisite: PHT 5174 and PHT 5174L.

PHT 5205L Clinical Skills Lab (1). Utilizing a laboratory format, this course will provide the student with the theory and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisite: PHT 5205, Clinical Skills.

PHT 5218 Physical Agent Modalities for Non-Physical Therapy Majors (1). The course is an introdction to physical agent modalities rehabilitation for students and practitioners of occupational therapy, athletic training, massage therapy or other health care professions.

PHT 5323C Pediatric Physical Therapy (3). Entry-level, skills and competencies in pediatrics, including motor development: diagnosis. examination and intervention; and family, health education, and service delivery issues. Prerequisites: Admission into the graduate program in PT or permission on instructor.

PHT 5328 Advanced Pediatric Physical Therapy Assessment (3). Analysis of assessment tools in relation to treatment. Competence in administration of appropriate tools will be required at end of course. Prerequisites: Either STA 5126 or STA 6166 and Permission of the instructor.

PHT 5335 Physical Therapy in Obstetrics/Gynecology (3). course will explore the role of the therapist in the field of obstetrics and provide and introduction gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisite: Permission of the instructor.

PHT 5336 Theories in Cardiopulmonary Rehabilitation (3). This course is designed to provide students with applied theory in the clinical and physical therapy management of medical and surgical cardiac and respiratory conditions. Prerequisite: Permission of the instructor.

PHT 5373 Advanced Therapy Assessment of the Elderly (3). The study of assessment tools used in geriatric rehabilitation in relation to appropriate intervention strategies and findings. Prerequisites: research Appropriate adult motor development course/permission of major advisor.

PHT 5375 Foundations in Gerontology for Health Professions (3). Implecations for health professions of biological, cross-cultural. physiological, psychological, social, and societal context's of aging.

PHT 5504 Service Learning in Physical Therapy (1-3). The course includes a brief introduction to community service in Physical Therapy, an opportunity to assist professionals to deliver communitybased physical therapy services, and the preparation of case studies based on the students's experiences. Prerequisite: Advanced standing in undergraduate PT program or admission to Graduate PT program.

5505C Physical Therapy Constructs in Health and Wellness (3). Covers elements of Physical Therapy related prevention, screening, health and wellness for individuals. schools, and communities.

PHT 5515 Therapeutic Services for Physically Impaired and Mentally Retarded Students (3). Lecture, lab, and group work to develop skills of education and therapy professionals for implementation with disabled children in schools. Prerequisite: Permission of major advisor or instructor.

PHT 5523 Dimensions of Professional Practice Seminar I (3). This is the first in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: Admission to Professional Curriculum.

PHT 5524 Dimensions of Professional Practice Seminar II (3). This is the second in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5523.

PHT 5525 Dimensions of Professional Practice Seminar III (3). This is the third in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5524.

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 5805 Clinical Internship I (3). This is the first in a sequence of 4 supervised full-time clinical internships designed to offer the student experiences in patient evaluation and care with emphasis on musculoskeletal dysfunction. Prerequisites: Musculoskeletal Diagnosis and Management III.

PHT 5815 Clerkship in Physical Therapy (2). Two-week full-time clinical experience combined with independent study of question or issue clinical Physical Therapy. Prerequisites: Permission of major advisor.

PHT 5823 Internship (3). Supervised, full-time clinical experience, designed to offer the student experience in patient evaluation and care, particularly in the areas of rehabilitation and neurorehabilitation. Prerequisite: PHT 4933.

PHT 5960 Comprehensive Exam I (1). This is the first of two comprehensive examinations that cover all previously completed coursework and is required for continued curriculum. progression in the Prerequisite: Fall Semester Courses-Year I.

PHT 6009 Differential Diagnosis in Physical Therapy (3). This course is designed to enable the physical therapy student to engage in the diagnostic process to establish differential diagnoses for patients across the life span. Prerequisite: PHT 4300.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic system, or both. Prerequisite: Permission of major advisor.

PHT 6145 Motor Development: Adult Through Geriatics (3). A study of motor development of the adult through old age. Application of developmental principles to physical and research. therapy practice Prerequisite: Permission of major advisor.

PHT 6163 Neurological Diagnosis and Management I (3). This is the first in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisite: Acceptance in the program. Corequisites: PHT 6163L.

PHT 6163L Neurological Diagnosis and Management I Lab (1). This is the first in a sequence of three (3) laboratory courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Corequisites: PHT 6163.

PHT 6164 Neurological Diagnosis and Management II (3). This is the second in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisite: PHT 6163. Corequisites: PHT 6164L.

PHT 6164L Neurological Diagnosis and Management II Lab (1). This is the second in a sequence of three (3) laboratory courses designed to prepare psychomotor student for competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6163L. Corequisites: PHT 6164.

PHT 6165 Applied Clinical Neuro anatomy (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 6169 Neurological Diagnosis and Management III (3). This is the third in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164. Corequisites: PHT 6169L.

PHT 6169L Neurological Diagnosis and Management III Lab (1). This is the third in a sequence of three (3) laboratory courses designed to prepare the student for psychomotor competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164. Corequisites: PHT 6169.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6239 Developmental Disabilities in Adulthood (3). A study of adults disabilities; with developmental societal including aspects perspectives, political and public policy regarding the handicapped, and current treatment of the theories in adult population. handicapped

Prerequisite: Permission of major advisor and instructor.

6325 Advanced Clinical Pediatric Physical Therapy (3). The study of theory, treatment and current clinical research in pediatric physical practice. Prerequisite: therapy Permission of major advisor and PHT 5320.

PHT 6326 Physical Therapy for At-Risk Infants (3). This course will explore current PT practice and research for at-risk infants in NICU, NCCU, and follow-up programs. Includes aspects of physiological and behavioral monitoring indicators for physical intervention. therapy Prerequisite: PT graduate students.

6341 Diagnosis Management of Disease (3). Covers Physical Therapy implications of disease processes, conditions and systemic disorders throughout the lifespan.

6341L Diagnosis Management of Disease Lab (1). The practicum portion of PHT 6341 that covers physical therapy intervention in disease processes, conditions, and systemic disorders throughtout the life span.

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.

Diagnosis PHT 6381 Management of Cardiopulmonary Systems (3). This lecture course covers the elements of patient and client management provided by physical therapists with anticipated goals of patterns preferred practice cardiopulmonary care. Prerequisite: Admission to PT Professional Program. Corerequisites: PHT 6381L.

Diagnosis PHT 6381L Management of Cardiopulmonary Systems Lab (1). This laboratory course covers the elements of patient and client management provided by physical therapists with anticipated goals of preferred practice patterns in cardiopulmonary care. Prerequisite: Admission to PT Professional Program. Corequisites: PHT 6381.

PHT 6401 Client-Centered Rehahilitation (3). Utilizes small and large proup discussion, multimedia presentations, readings and projects to explore issues of communication, cultural diversity and client-centered rehabilitation.

PHT 6526 Dimensions of Professional Practice Seminar IV (3). This is the fourth in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5525.

PHT 6547 Case Management in Physical Therapy (1). Comprehensive physical therapy patient care management and practice review cumulating in a simulated physical examination. therapy licensure Prerequisite: PHT 6705 (Long Term Corequisite: PHT Rehabilitation). 6970 (Master's Project).

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6705 Long Term Rehabilitation for Persons with Chronic Disease and Disability (3). Applying long term rehabilitation for persons with chronic disease and disabilty with focus on the continuum of fitness, health and rehabilitation throughout the life span. Prerequisite: PHT 4711.

PHT 6706 Information and Communication Technology in Rehabilitation (3). An introductory course that focuses on computer rehabilitation technology for clinical practices, research and education, and devices that assist the quality of patient activities. Prerequisite: Student should have a basic understanding of personal computers.

PHT 6714 Spinal Dysfunction I Back) (3). In-depth (Lower exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines theoretical bases of evaluation and treatment of the neuro-patient; includes exploration of the relationship of motor control and motor learning to current neurologic rehabilitation. Prerequisite: Permission of major advisor.

PHT 6725 Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions. Prerequisite: Permission of major advisor.

PHT 6817 Clinical Internship II (3). This is the second in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with general medical and surgical clients. Diagnosis Prerequisite: Management of Disease.

PHT 6824 Internship I (3). Supervised full-time clinical experience with emphasis on: evidence-based practice; clinical decision making; administration: educational activities: outcomes assessment; differential diagnosis; and consultation. Prerequisite: PHT 6009.

PHT 6825 Internship II (3). Continuation of PHT 6824, Internship I. Prerequisite: PHT 6824.

PHT 6826 Internship III (3). Continuation of PHT 6825, Internship II. Prerequisite: PHT 6825.

PHT 6827 Clinical Internship III (3). This is the third in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with the neurologically involved Prerequisite: Neuromuscular Diagnosis and Management III.

PHT 6828 Clinical Internship IV (3). This is the final in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient care in a speciality setting, including but not limited to pediatrics, SCIP, burns, etc. Prerequisite: Clinical Intemship III.

PHT 6845 Resources and Skills for the PT/PI student (3). This course focuses on the interdisciplinary team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Corequisite: Graduate OT, PT, or Education students.

PHT 6905 Independent Study (1-3). Individually determined, researchoriented, 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 6961 Comprehensive Exam II The second comprehensive examination covering all previously completed coursework and is required for continued progression in the curriculum. Prerequisite: Semester-Year II.

PHT 6970 Master's Project (3). An individually supervised project for physical therapy students, who prefer non-thesis option.

PHT 6971 Master's Thesis (3). Supervised research which demonstrates the application of analytical, concentual and technical skills to a specific physical therapy problem. Prerequisite: Permission of major advisor.

Public Health

Andrew Miracle, Interim Chair William W. Darrow, Professor Janvier Gasana, Associate Professor WayWay M. Hlaing, Assistant Professor

H. Virginia McCoy, Professor Joseph Patterson, Professor Emeritus Richard T. Patton, Clinical Assistant Professor, Field Experience Coordinator, and Academic Advisor

Master of Public Health

The Master of Public Health (MPH) is accredited by the Council on Education for Public Health.

The MPH program is designed to provide fundamental skills in core areas of Public Health and to serve those seeking a broader base of knowledge to improve environmental and personal health services for the community.

The mission of the Department of Public Health at Florida International University is to educate, train, and serve the interests of Public Health by:

- educating and training health professionals:
- promoting health maintenance and disease prevention;
- conducting research and disseminating useful information;
- serving the health needs of minorities, the underserved and the people of South Florida;
- emphasizing our geographical location to the Caribbean and Latin America.
- The Online MPH begins Fall 2003.

The MPH Program is an affiliated program offered with the Department of Epidemiology and Public Health at the University of Miami's School of Medicine.

Admission Requirements

Applicants must meet the University's general graduate admission require-

- I. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level, and submit a score of 550 on the TOEFL.
- 2. A minimum 3.0 GPA (on the last 60 undergraduate hours), and a combined quantitative and verbal score of 1000 on the GRE taken within the last five years: or a score of 500 on the GMAT: or a graduate degree from an

accredited institution. However, all applicants, regardless of previous GPA, are required to submit the appropriate aptitude test scores. In addition, applicants are required to 1) submit three letters of recommendation from persons in the field of public health and the academic major at the institution most recently attended; 2) submit a written personal statement as described in the application packet provided by the Department of Public Health; 3) provide a current curriculum vitae/ resume.

Students with diverse backgrounds are encouraged to apply.

Computer Requirements

Entering students must demonstrate basic computer literacy, either through course work or by demonstration to the advisor. Students are expected to show that they can load and run software programs, and have reasonable proficiency in word processing. Two core courses, PHC 6715 Survey Research in Public Health and PHC 6050 Public Health Statistics, require use of SPSS. This requirement will assure that students are prepared for these and other courses which require additional computer skills needed in public health practice.

Masters Culmination

All MPH students must complete either a field-training experience or a research option as a core requirement.

Field Experience Option

This option is recommended for all students with less than three years of experience in a health-oriented program. Field experience gives the student the opportunity to gain practical experience under preceptorguided supervision in public health. Students should consult the Field Experience Coordinator for further information.

Research Options

These options are recommended for students entering the program with three or more years of experience in a public health-related program.

Master's Research Project

The research project affords the opportunity to conduct research on a specific public health problem or topic in either a community or institutional setting. MPH students who select the research project must choose a faculty member to direct their research. The

advisor and the student may identify other resource persons to serve in an advisory capacity for the research project.

Masters Thesis

The thesis option provides students the opportunity to conduct original research on a public health problem or topic and to report this in a scholarly manuscript. Students who select this option must choose a major professor to act as the chair of their thesis committee and two additional members. Before beginning work on a thesis, student must present a proposal to their committee for approval. The committee will direct and supervise the work carried out by the student.

Degree Requirements

Students must complete at least 46 semester hours of approved course work with a minimum of a 'B' average. All work applicable to the degree must be completed within six years immediately preceding the awarding of the Master's degree.

Program of Study

The Department offers three programs of study.

Environmental Health courses prepare professionals to utilize technical data, decision-making theory, managerial methods, socio-legal issues, and risk assessment in the development and implementation of public policy, environmental standards, and environmental protection programs. See also Graduate Certificate in Environmental Health and Graduate Certificate in Conflict Resolution.

Epidemiology courses prepare students to investigate the distribution of diseases, disease outbreaks, epidemics, and health conditions in the population, the factors determining the distribution. (Graduate Certificate expected 2002).

Health Promotion courses prepare students to develop and implement health promotion/health education programs in various sites. This program of study is concerned with personal and public health lifestyles, identification of risk factors and behavioral change strategies that promote positive health behaviors of individuals, groups, and community. See also Graduate Certificate in Health Promotion.

General Core Courses: (22) PHC 6000 Introduction to Public Health Epidemiology 3

Graduate Ca	talog	
PHC 6050	Public Health Statistics	3
PHC 6315	Public Health and	-
	Environmental	
	Management	3
PHC 6410	Health Behavior and	
	Public Health	3
PHC 6443	Ethical Issues in Public	
	Health	3
PHC 6500	Foundations of Public	
	Health Practice	3
PHC 6715	Survey Research in Public Health	
	Public Health	3
STA 5105L	SPSS Laboratory	1
Elective Cou	rses: (21)	
PHC 5409	Public Health Behavior	
	Change Theory and	
	Practice	3
PHC 5415	Public Health in	
	Minority and Urban	
	Populations	3
PHC 6112	Health Risk Appraisal	3
PHC 6160	Public Health Budgeting	
	and Financial	
	Management	3
PHC 6501	Health Promotion	
	Communication Theory	
	and Design	3
PHC 6502	Health Promotion in the	
	Workplace	3
PHC 6503	Community	
	Organization for Health	
	Promotion	3
PHC 6504	Introduction to Health	_
DITC (500	Education and Wellness	3
PHC 6580	Contemporary Issues in	,
PHC 6585	Health Promotion	3
PHC 0383	Health Promotion in Clinical Settings	3
PHC 6589	Health Promotion in	3
1110 0307	Institutional Settings	3
PHC 6750	Program Development	_
11100/50	and Evaluation in	
		3
PHC 5009	AIDS: Contemporary	-
FHC 3009	Issues	3
PHC 6012	Current Research in	,
1110 0012	Epidemiology	3
PHC 6014	Behavioral	,
	Epidemiology	3
PHC 6015		3
PHC 6016	Social Edipemiology,	
	Health Promotion and	
		3
PHC 6539	Health Demography	3
PHC 6009	AIDS Epidemiology and	
	Control	3
PHC 6001	Environmental and	
	Occupational	
		3
PHC 6004	Injury Epidemiology	
	and Prevention	3
PHC 6307	Environmental Health	
	Monitoring	3

_			
	PHC 6311	Envrionmental Health	
		Risk Assessment	3
	PHC 6355	Occupational Health and	i
		Saftey	3
	PHC 6356	Fundamentals of	
		Industrial Hygiene	3
	PHC 6425	Legal and Regulatory	
		Aspects of	
		Environmental Health	3
	PHC 6520	Public Health Aspects of	f
		Foodborne Disease	3
	PHC 6111	Primary Health Care	
		Strategies	3
	PHC 6115	International Public	-
		Health	3
	PHC 6150	Public Health Policy	-
		Analysis and	
		Formulation	3
	PHC 6530	Principles of Maternal	-
		and Child Health	3
	PHC 6538	Genetic Issues in Public	
		Health	3
	PHC 6907	Independent Study in	
		Public Health	1-3
	PHC 7702	Advanced Measurments	
		in Public Health	3
	Capstone Cou	irse: (3)	
	PHC 6945	Supervised Field	
	1110 0745	Placement	1-3
	PHC 6977	Master's Research	
		Project in Public Health	3
	PHC 6xxx	Masters Thesis	1-6
			-
	Course Des	scriptions	
	Definition of	f Prefix	

Definition of Prefix

PHC - Public Health

PHC 5009 AIDS: Contemporary Issues (3). This course introduces the contemporary social and public health issues associated with the AIDS epidemic and the policies and programs designed to prevent HIV transmission.

PHC 5409 Public Health Behavior Change Theory and Practice (3). A course for health promotion practitioners who lack formal training in behavior change foundations and strategies. The course emphasizes applications to practical development of health promotion interventions.

PHC 5415 Public Health in Minority/Urban Population (3). Covers the scope of Public Health Issues related to minority and urban populations with an emphasis on health care status, utilization of the health care system and expenditures.

PHC 5930 Public Health on the Internet (I). An extensive examination of public health topics on the internet, subject varies each semester.

Theoretical, conceptual, and analytical tools for electronic searching. Prerequisites: Microsoft Windows Literacy.

PHC 5XXX Public Health Aspects of Complementary and Alternative Medicine (3). Introduction of theory, practice and scientific evidence for complementary and alternative medicine. Emphasis on regulatory issues and quality assurance; politics of use and social, cultural and historical factors.

PHC 6000 Introduction to Public Health Epidemiology (3). Introduction to the study of the distribution, determinants, and measurement of health and disease in populations, including study methods and their application to specific diseases and conditions. (F,S)

PHC 6001 Environmental and Occupational Epidemiology (3). This course covers outbreaks; cluster analysis; cross-sectional, case-control, cohort, ecological and time series designs; surveillance programs; environmental cancer; reproductive hazards, biological monitoring and biomarkers. Prerequisite: PHC 6315 and PHC 6000.

PHC 6004 Injury Epidemiology and Prevention (3). Analyzes the impact and extent of injuries as a public health problem. Issues of prevention, sources of data, environment, social and occupational aspects are included in an epidemiological approach. Prerequisite: PHC 6000. (SS)

PHC 6009 AIDS Epidemiology and Control (3). Reviews the epidemiology, virology, immunology, and clinical aspects of HIV, and also examines its impact upon risk groups and the responses of society to the epidemic. (S)

PHC 6012 Current Research In Epidemiology (3). This course will examine current areas of research in epidemiology and bring students into contact with researchers in various fields. Prerequisite: PHC 6000, PHC 6050. (S)

PHC 6014 Behavioral Epidemiology (3). This course will examine human behaviors as determinants of health and disease, methods of exploring these relationships, and ways of altering risk behaviors. Prerequisite: PHC 6000. PHC 6015 Epidemiological Methods (3). This course will examine epidemiological methods emphasizing the actual conduct of studies. Students will undertake a simulated research project. Prerequisite: PHC 6000, PHC 6050. (S)

PHC 6016 Social Epidemiology, Health Promotion and Policy (3). Explores the epidemiological aspects of health and medical care of the poor and disadvantaged population groups. Emphasis on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: PHC 6000. (F)

PHC 6050 Public Health Statistics (3). An introduction to the basic principles of inferential statistics as applied to public health. The course includes those components of biometry routinely used in public health. Prerequisite: Undergraduate course in statistics. Open only to graduate students in Public Health. (F,S)

PHC 6111 Primary Health Care Strategies (3). Examines the rationale, planning and implementation of community-oriented primary health care. Emphasizes primary care as an integral part of the health care system and an essential part of public health. Prerequisites: PHC 6500 or Permission of the instructor. (SS)

PHC 6112 Health Risk Appraisal (3). Health promotion technique designed for identifying personal health risks and the use of these methodologies for inducing behavioral change. Evaluation of the effectiveness of various health appraisal instruments. Prerequisite: PHC 6000 & PHC 6050. (F)

PHC 6115 International Public Health (3). This course describes international differences in the distribution and determinants of disease and health, and examines interventions aimed at improving health status. (F)

PHC 6150 Public Health Policy
Analysis and Formulating public health
policy; political processes; resource
allocation, organization, and
participation. Examination of current
policy issues and efforts to effect
change. (F)

PHC 6160 Public Health Budgeting and Financial Management (3). This course is designed for public health practitioners. Emphasis will be placed on models necessary to develop operational budgets in the public sector of health care and to anticipate financial anomalies.

PHC 6307 Environmental Health Monitoring (3). Surveys available mechanisms utilized by public health and environmental agencies to monitor levels of pollution, environmental quality, and change in environmental conditions which impact human health. Prerequisite: PHC 6000, PHC 6050, PHC 6315. (SS)

PHC 6310 Environmental Occupational Toxicology (3). Theory and privactice of occupational and environmental toxicology; health effects of toxins in humans; principles of toxicology; toxicokinetics; and health effects of toxins on organ systems. Prerequisites: PHC 6315.

PHC 6311 Environmental Health Risk Assessment (3). This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach. Prerequisite: PHC 6315. (S)

PHC 6315 Public Health and Environmental Management (3). An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and surveillance responsibilities authorized in the public sector. (F. S)

PHC 6355 Occupational Health and Safety (3). The course covers recognition of occupational hazards, injuries and diseases and the principles of occupational safety including safety regulations and standards and models of accident causation. Prerequisite: PHC 6315.

PHC 6356 Fundamentals of Industrial Hygiene (3). The course covers recognition, evaluation, and control of chemical biological and physical agents in the workplace; application to exposure, control measures, and standard setting procedures. Prerequisite: PHC 6315.

PHC 6410 Health Behavior and Public Health (3). The overall goal of this course is to introduce the student to the learning and behavioral science theories that provide the framework for

the practice of health promotion and public health. Prerequisites: Public Health major or Permission of the instructor. (F.S)

PHC 6425 Legal and Regulatory Aspects of Environmental Health (3). The application of law as it relates to the environment and human health. Legal process and rule-making; costbenefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: PHC 6000, PHC 6050 and PHC 6315. (S)

PHC 6443 Ethical Issues in Public Health (3). The role of Bioethics on Public Health Issues.

PHC 6500 Foundations of Public Health Practice (3). Philosophy, nature, and scope of public health; organization and administration; principles of disease prevention and health promotion; current issues and trends; socioeconomic and political forces. Prerequisite: Public Health major or Permission of the instructor. (F.S.SS)

PHC 6501 Health Promotion Communication Theory and Design (3). Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisite: Health Promotion Concentration or by Permission of the instructor. (F)

PHC 6502 Health Promotion in the Workplace (3). Emphasis is on program design, management, and evaluation of health promotion in industry. Current issues on health assessment, fitness, and emotional stress in the workplace will be considered. Prerequisite: Health Promotion Concentration or Permission of the instructor. (SS)

PHC 6503 Community Organization for Health Promotion (3). Emphasis is on the diagnosis of community health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisite: Health Promotion Concentration or Permission of the instructor. (F)

PHC 6504 Introduction to Public Health Education and Wellness (3). Primarily intended to introduce graduate students to concepts and principles underlying the use of Public Health and Behavioral Strategies to positively influence behavioral patterns. Prerequisites: Public Health major or Permission of the instructor.

PHC 6520 Public Health Aspects of Foodborne Diseases (3). Examines the scope of the foodborne disease problem; factors that contribute to outbreak of foodborne disease; strategies for the prevention and control of these diseases are explored. Prerequisites: PHC 6000, PHC 6050, and PHC 6315. (F)

PHC 6530 Principles of Maternal and Child Health (3). Covers the scope of the field of maternal and child health with emphasis on the needs of infants, children, youth, women and families in the reproductive cycle and programs designed to meet these needs. Prerequisite: Public Health major or Permission of the instructor, (S)

PHC 6538 Genetic Issues in Public Health (3). Genetic issues and topics that impact on Public Health will be covered such as HW gene frequencies and HUGO. A public health perspective with a field of study.

PHC 6539 Health Demography (3). The study of basic population structure. composition, trends and relationship to health status. Implications of demographic trends, policies for public health; population growth, immigration, infant mortality. Prerequisites: PHC 6050 or Permission of the instructor, (S)

PHC 6580 Contemporary Issues in Health Promotion (3). Current problems and findings in health promotion content areas such as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: PHC 6000 and PHC 6050. (SS)

PHC 6585 Health Promotion in Clinical Settings (3). Analysis of the role, methods, and techniques of health promotion and patient education pertaining to hospitals, clinics and other ambulatory health services. Prerequisites: PHC 6000 and PHC 6050. (S)

PHC 6589 Health Promotion in Institutional Settings (3). This course will investigate the role, methods and techniques used to promote health in diverse settings such as clinic and

community agencies. schools. universities and workplaces.

PHC 6715 Survey Research in Public Health (3). Health survey design, implementation and analysis, and interpretation of data. Emphasis on practical aspects of conducting health surveys. Study of existing health surveys. Prerequisites: PHC 6000 and PHC 6050. (F,S)

PHC 6750 Program Development and Evaluation in Health Promotion (3). Principles and procedures in health promotion program development and evaluation. Emphasis on needs assessment, planning models, evaluation designs, data collection, analysis and reporting. Prerequisites: PHC 6000 and PHC 6050. (F)

PHC 6907 Independent Study: Public Health (1-3). Allows investigations of special topics and issues utilizing literature searches, analysis, or active performance in public health settings under the direction of faculty supervision. Prerequisite: Permission of the faculty advisor.

PHC 6945 Supervised Field Experience in Public Health (1-3). Preceptor guided experience in a public health organization. Experience will include orientation; observation; and participation in the aspects of the agency's program. Prerequisite: Permission of the faculty advisor.

PHC 6977 Master's Research Project (3). This course provides the student with an opportunity to explore indepth a specific topic or issue of interest in public health.

PHC 6XXX Master's Thesis (I-6). Supervised research on an original public health problem or topic submitted in partial fulfillment of master's degree requirement. Prerequisite: Permission of major professor. (F,S,SS)

PHC 6XXX Infectious and Chronic Disease Epidemiology (3). A review of selected epidemiologic research methodology as it applies to infectious and chronic diseases and its application towards understanding selected major infectious and chronic diseases from a population based perspective. Prerequisite; PHC 6000 Intro to Epidemiology.

PHC 6XXX Disaster and Emergency Epidemiology (3). Disaster and Emergency Epidemiology studies the public health response to natural disasters, environmental emergencies and perpetuated acts of terrorism.

PHC 7702 Advanced Measurement in Public Health (3), Advanced course in measurement and evaluation in public health. Computer applications for public health practice emphasized. Prerequisites: PHC 6050, PHC 6715, PHC 6750.

Graduate Certificate Program in Health Promotion

The Graduate Certificate Program seeks to provide graduate level instruction in health promotion to non-graduatedegreed practitioners. Students will gain a scientific foundation for designing, conducting, and evaluating health promotion programs in public health, while at the same time benefit from numerous opportunities for practical application. Online Certificate available Fall 2002.

Program Requirements

The Graduate Certificate Program requires completion of 15 graduate credits. The student must demonstrate proficiency in health promotion design, implementation, and evaluation. If students are proficient in any one area covered by the required courses, alternative courses may be selected. Substitution of courses must be approved by the advisor. A graduate statistics course (biostatistics, social statistics) is a prerequisite.

Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment

stipulations.

Required Courses¹: (15) Introduction to Health PHC 6504 Education and Wellness 3 Public Health Behavior PHC 6409 Change Theory and Practice 3 Health Promotion PHC 6501 Communication Theory and Design Program Development PHC 6750 and Evaluation in Health Promotion 3 Health Promotion in PHC 6589 Institutional Settings 3

1If students are proficient in any one area covered by the required courses,

prerequisites and

Students

the following alternative courses may be substituted (6 credits maximum): PHC 6112 Health Risk Appraisal PHC 7702 Advanced Measurement in Public Health PHC 6531L Environmental Health Risk Assessment PHC 6004 Injury Epidemiology and Prevention Public Health Aspects PHC 6520 of Foodbome Diseases Contemporary Issues in PHC 6580 Health Promotion PHC 6530 Principles of Maternal and Child Health PHC 6016 Social Epidemiology. Health Promotion, and PHC 5415 Public Health in Minority/Urban **Populations**

358

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university.

Graduation (completion) Requirements

Completion of 15 graduate credits with an overall 'B' average and passing the Certified Health Education Specialist (CHES) exam.

Graduate Certificate Program in Environmental Health

The Graduate Certificate Program seeks to provide graduate level instruction in environmental health to non-graduatedegreed practitioners or as a specialization within the MPH degree. Upon completion of the certificate program the student will be able to develop, implement, manage, and assess environmental and occupational contaminants programs for local, state and Federal regulatory agencies. The program has been developed to allow working professionals in Public Health to expand or upgrade their skills and to provide incremental academic steps for individuals heading towards their first or second professional degree in environmental health sciences. Online Certificate begins Fall 2002.

Program Requirements

The Graduate Certificate Program requires the completion of 18 graduate credits. The student must demonstrate proficiency in the identification and characterization of human and ecological exposures to environmental

and occupational contaminants. Students who are proficient in any one area covered by the required courses may choose from selected alternative courses to complete their requirements.

Required Courses: (18)

PH

PH

PH

PF

PHC 6004

IC 6315	Public Health and	Required Courses: (18)		
	Environmental			
	Management	PHC 5xxx	Chronic and Infectious	
HC 6355	Public Health and		Diseases Epidemiology	3
	Occupational Health and	PHC 6000	Introduction to Public	
	Safety		Health Epidemiology	3
HC 6310	Environmental and	PHC 6001	Environmental and	
	Occupational		Occupational	
	Toxicology		Epidemiology	3
HC 6307	Environmental Health	PHC 6004	Injury Epidemiology	
	Monitoring and		and Prevention	3
	Laboratory	PHC 6009	AIDS Epidemiology and	i
HC 6001	Environmental and		Control	3
	Occupational	PHC 6539	Health Demography	3
	Epidemiology	Alternate Courses: (6 maximum)		

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university, and must have completed a prerequisite graduate course in biostatistics or social science ctatistics

Injury Epidemiology

and Violence Prevention

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average and passing the Environmental Registered Health Specialist (REHS)/Registered Sanitarian (RS) exam.

Graduate Certificate in **Epidemiology**

This Graduate Certificate seeks to provide graduate level instruction in epidemiology to non-graduate-degreed practitioners. Students shall be provided with a scientific foundation to utilize the fundamentals of biometry to describe and study variables related to disease risk, and to organize and maintain databases, while at the same time be provided with opportunities for practical application.

Program Requirements

The Graduate Certificate requires the completion of 18 graduate credits. The student must demonstrate proficiency in research methodology, basic statistical and computer skills related to distribution and determinants of disease. If students are proficient in any one area covered by the required courses,

enrollment stipulations.

courses have

approved by the advisor.

PHC 6000	Introduction to Public	
	Health Epidemiology	3
PHC 6001	Environmental and	
	Occupational	
	Epidemiology	3
PHC 6004	Injury Epidemiology	
	and Prevention	3
PHC 6009	AIDS Epidemiology and	d
	Control	3

alternative courses may be selected.

Substitution of courses must be

should consult with advisors since new

courses are frequently added, and some

Alternate Courses: (6 maximum)

If students are proficient in any one area covered by the required courses, the following courses may be substituted:

PHC 6012	Current Research in	
	Epidemiology	3
PHC 6014	Behavioral	
	Epidemiology	3
PHC 6015	Epidemiology Methods	3
PHC 6016	Social Epidemiology,	
	Health Promotion and	
	Policy	3

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Communication Sciences and Disorders

Lemmietta G. McNeilly, Associate Professor and Chairperson

Eliane Ramos, Assistant Professor Jean Mead, Clinical Assistant

Professor Alfredo Ardila, Associate Professor

Communication Sciences Disorders (CSD) is one of the departments in the School of Health. This department offers a master's degree program in Speech Language Pathology. Additionally, seven undergraduate prerequisite courses are offered for interested applicants with a bachelor's degree from a different discipline. The unique focus of the CSD department is one of Cultural and Linguistic Diversity (CLD). The goal of the department is to educate CLD professionals to meet the needs of multicultural populations of individuals Communication Disorders. Students matriculating in the program will benefit from the infusion of CLD throughout the curriculum. The program allows full time and part time enrollment. All degree requirements need to be completed within six years from the initial date of enrollment. Students will have opportunities to receive clinical education from a variety of clinical settings in the Miami Metropolitan area including hospitals, schools. private practices community based clinics. They will also engage in research projects with faculty members. A description of the admission requirements and description of master's programs follow.

Admission Criteria

Applicants for admission to the master's degree program must meet the current FIU minimum standards for admission to graduate school.

 3.0 grade point average last 60 hours of undergraduate study

2. GRE score of 1000 (verbal and quantitative sections combined)

3. TOEFL score of 550 for foreign students whose primary language is other than English

Additionally, the CSD department requires the following for admission to the graduate program:

1. FIU Graduate School applica-

tion

2. Letter of interest summarizing interests

 Two letters of recommendation from persons with knowledge of academic performance

 Bachelor's degree in Communication Sciences and Disorders or completion of the 7 required prerequisite courses.

Requirements for students without a bachelor's degree in Communication Disorders

The department of Communication Sciences and Disorders requires an individual applying for the master's degree to hold a bachelor's degree in communication disorders or its An applicant's equivalent. undergraduate background influences the time necessary to complete the graduate degree, as there are 7 prerequisite courses required for entrance to the graduate program. Interested individuals should contact the department prior to completing an application for admission. following courses or their equivalents are required for all interested persons without an undergraduate degree in communication disorders: SPA 4002

Survey of Communication Disorders SPA 4004 Introduction to Normal Speech & Language Development 3 SPA 4011 Speech & Hearing 3 Science SPA 4030 Introduction to 3 Audiology SPA 4050 Clinical Management in Communication Disorders Anatomy & Physiology SPA 4101 of Speech & Hearing

Principles of Phonetics 3

Master's Degree in Speech Language Pathology

SPA 4112

The newly developed Master's degree in Speech-Language Pathology consists of 57-64 graduate hours. The specific credit hours required will depend upon student's selection of thesis versus nonthesis options. Nine credit hours of the program are in one of several specialization tracks that the student will select. Current tracks emphasize educational, multicultural. gerontological aspects communication disorders. Each track requires an additional credit hour earned for a research project related to the track selected by the applicant. The amount of time required to complete the program of study will vary. Full time enrollment will require four semesters and two summers to complete the program of study. The maximum of six years for individuals enrolled part time is allowed. Student progress will be monitored each semester by departmental faculty.

Clinical practicum hours will be obtained in a variety of community settings. All students will take a minimum of three semesters of clinical practicum in three different settings. A minimum of 375 clock hours is required for graduation. Passage of comprehensive exams is required for

degree completion.

The program of study provides students with theoretical and clinical education to develop the competencies needed to practice as a speech-language pathologist. Upon completion of the master's degree, the graduate will have met all academic and practicum requirements for the certificate of clinical competence awarded by the American Speech-Language-Hearing Association. All students will be advised to take the PRAXIS (600 passing score) during the last year enrolled in the program. The Council of Academic Accreditation awarded candidacy status to the Master's Degree Program in Speech-Language Pathology effective Fall, 2000. Courses are taught by knowledgeable faculty with expertise in the areas of teaching.

Program of Study

Graduate Core Health Sciences Course (3)

HSC xxxx Ethical & Legal
Aspects of Health
Care Professions

3

3

Core Courses in Speech Language Pathology (50)

Practical Courses (8) SPA 5132 Technological

SPA 5132 Technological
Innovations in SpeechLanguage-Hearing
Sciences
SPA 5553 Differential Diagnosis
of Communicative
Disorders

Research Methodology

in Communication Disorders

Disorders

Speech (20) SPA 5401 Phor

SPA 5805

SPA 5401 Phonological Disorders 3 SPA 5225 Fluency Disorders 3 SPA 5216 Vocal and Velopharyngeal Disorders 3

Disorders
SPA 5106 Neurological Bases of

Jou Conces	Of Ticatili and Ciban 1	11141
	Communication	
	Disorders	3
SPA 6232	Neuromotor	
	Communication	
	Disorders	3
SPA6559	Augmentative/	
	Alternative	
	Communication	3
SPA 6565	Dysphagia	2
Language (10)	
SPA 5473	Cultural & Linguistic	
	Diversity (CLD) in	
	Communication	
	Disorders	3
SPA 5403	Language Learning in	
	Preschool Children	3
SPA 5404	Language Learning in	
	School-Aged Children	2
SPA 6410	Aphasia and	
	Related Disorders	3
Audiology ((3)	
SPA 6322	Aural Habilitation	
	and Rehabilitation	3
Clinical Pra	acticum (9)	
SPA 5500	Basic Clinical	
	Practicum	3
SPA 5502	Intermediate Clinical	
	Practicum	3
SPA 6505	Advanced Clinical	
	Practicum	3

Research [Thesis-6 credit] or Specialty Track [Non-Thesis-10 creditsl

Students are required to select a thesis or non-thesis options as partial fulfillment of the requirements for the master's degree. For the thesis option students will enroll in six hours of thesis (SPA 6971) credits. The nonthesis option (10 credits) mandates nine credits of coursework in one of the specialization tracks and one credit for a Master's Project (SPA 6930).

Specialty Track Requirements

Bilingual Communication Disorders

SPA 0000	Assessment &	
	Treatment of	
	the Bilingual Child with	
	Communication	
	Disorders	3
LIN 5720	Second Language	
	Acquisition	3
SPA 6930	Master's Project	l
Educational		
LIN 5732	Speech Errors and	
	Linguistic Knowledge	3
EEX 6019	Autism	3

Family School

Collaboration

Consultation and

3

Gerontological Aspects of Communication Disorders Interdisciplinary OTH 5613

SPS 6199

DEP 6465	Psychology of
	Culture and Aging 3
DEP 6466	Cognitive Processes in
	Aging 3
Medical Spec	ech-Language Pathology
Pediatrics	
PHC 6009	AIDS Epidemiology and Control
PHC 6115	International Public
	Health
PHC 6530	Principles of Maternal &
	Child Health
PHC 6538	Genetic Issues in Public
	Health
SPA 6930	Master's Project
SPA 6485	Medical Speech
	Language Pathology
SPA 6486	Assessment &
	Intervention of
	Medically Complex
	Children
SPA 6481	Genetics &
	Communication
	Disorders in Pediatric
	Populations
SPA 6505	Medical Clinical
	Practicum (Advanced)
C D.	

Approach to Aging

3

Course Descriptions

Definition of Prefixes

SPA - Speech/Language Pathology

SPA 4002 Survey of Communication Disorders (3). Theory, evaluation, and therapeutic procedures with disorders of speech and language, including but not limited to, articulation disorders, childhood language disorders, aphasia, voice disorders, and disorders of fluency. Prerequisite: Consent of the instructor.

SPA 4004 Introduction to Normal Speech and Language Development (3). The study of normal verbal speech and language acquisition. Prerequisite: Consent of the instructor.

SPA 4011 Speech and Hearing Science (3). Study of speech and hearing physiology, acoustic phonetics, and speech perception. Prerequisite: Consent of the instructor.

SPA 4030 Introduction to Audiology (3). Principles of auditory reception; the hearing mechanism; problems involved in measuring, evaluating, and hearing. Prerequisite: conserving Consent of the instructor.

SPA 4050 Clinical Management in Communication Disorders (3). This course should be taken in the last semester of undergraduate prerequisite study. Clinical procedures for working in various practicum settings, using

diagnostic and therapeutic techniques, behavioral objectives, writing procedures for report writing, and practical experience with clinicianmade and commercial materials. Provides directed clinical observation of the evaluation and rehabilitation of individuals with speech, language, and hearing problems. A minimum of 25 clock hours of observation will be required. Prerequisite: Consent of the instructor.

SPA 4101 Anatomy and Physiology of Speech and Hearing (3). Anatomy and physiology of the speech and mechanisms. Including hearing nomenclature, respiration, phonation, articulation/resonance, the nervous system, and the auditory system. Prerequisite: Consent of the instructor.

SPA 4112 Principles of Phonetics (3). Principles of phonetics and their application to speech. Classification of speech sounds according to various systems including, but not limited to, manner and place, distinctive features, and phonological processes. Phonetic transcription utilizing the International Alphabet. Prerequisite: Phonetic Consent of the instructor.

SPA 5106 Neurological Bases of Communication (3). The anatomical and physiological aspects of the central and peripheral nervous system as they pertain to communication acquisition and disorders. Prerequisite: Permission of Instructor.

SPA 5132 Technological Innovations Speech-Language Hearing Sciences (2). Technological innovations in speech language hearing sciences: lecture and laboratory exercises in the use of audio recordings, acoustic analysis and synthesis instrumentation. Prerequisite: Consent of the instructor

SPA 5216 Vocal and Velopharyngeal Disorders (3). Study of etiology, symptoms, and treatment strategies for a variety of vocal and craniofacial disorders. Prerequisite: Consent of the instructor.

SPA 5225 Fluency Disorders (3). Theories, assessment and treatment techniques for persons across the lifespan with fluency disorders. Prerequisite: Consent of the instructor.

SPA 5401 Phonological Disorders (3). An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic

principles based upon them. Prerequisite: Consent of the instructor.

- SPA 5403 Language Learning in Preschool Children (3). Overview and evaluation of the language skills of preschool and school aged children including metalinguistic and discourse development. Prerequisite: Consent of the instructor.
- SPA 5404 Language Learning in School-Aged Children (2). Presentation of the linguistic development in children ages 0-5 years as well as the delays and disorders associated with language.
- SPA 5473 Cultural, Linguistic Diversity in Communication Disorders (3). A study of the relationship between culture and communication with application to assessment and intervention. Prerequisite: Consent of the instructor.
- SPA 5500 Basic Clinical Practicum (3). Supervised practice with representative speech and language problems in the school settings. Prerequisite: Consent of the instructor.
- SPA 5502 Intermediate Clinical Practicum (3). Supervised practice with communication problems in outpatient settings, private practices, rehabilitation. Prerequisite: Consent of the instructor.
- SPA 5553 Differential Diagnosis of Communicative Disorders (3) The administration, evaluation and reporting of diagnostic tests and procedures used in assessment of speech and language disorders. Perrequisite: Consent of the instructor.
- SPA 5571 Ethical and Legal Aspects of Health Care Professions (3). Legal and ethical issues of appropriate practice in the healthcare profession will be addressed in detail, relative to multicultural populations. Prerequisite: Consent of the instructor.
- SPA 5805 Research Methodology in Communication Disorders (3). Research design, statistical analysis (descriptive and inferential) and dissemination of experimental data, with an emphasis on clinical research. Legal/ethical and cultural consideration in research design and implementation will also be addressed. Prerequisite: Consent of the instructor.
- SPA 6005 Assessment & Treatment of the Bilingual Child with Communication Disorders (3). Assessment and treatment of normal

- and atypical language development across cultures. Prerequisite: Consent of the instructor.
- SPA 6232 Neuromotor Communication Disorders (3). A study of the medical, physical, occupational, speech, language, and hearing problems of the neuromotorically impaired client. Therapy techniques are reviewed and evaluated. Prerequisite: Consent of the instructor.
- SPA 6322 Aural Habilitation and Rehabilitation (3). Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training and language for the hearing impaired. Prerequisite: Consent of the instructor.
- SPA 6406 Bilingual Language Acquisition (3). Development of normal atypical language in speakers of other languages. Prerequisite: Consent of the instructor.
- SPA 6410 Aphasia and Related Disorders (3). Consideration of the neurological and psychological aspects of aphasia and related approaches are discussed and evaluated. Prerequisite: Consent of the instructor.
- SPA 6481 Genetics & Communication Disorders in Pediatric Populations (3). Students will learn about the core clinical competencies in genetics that apply to the SLP profession.
- SPA 6485 Medical Speech-Language Pathology (3). Provides overview of med terminology, health conditions, pharmacological effects related to Communication Disorders, assessment and intervention of Communication Disorders for pediatric and adult populations seen in the medical setting. Prerequisite: Consent of the instructor.
- SPA 6486 Assessment & Intervention of Medically Complex Children (3). Course provides overview of communication disorders and related issues in children with medically complex conditions. The social, psychological, health, financial, legal and cultural aspects of children with chronic health conditions will be addressed. Prerequisite: Consent of instructor.
- SPA 6505 Advanced Clinical Practicum (3). Supervised practice with severe communication problems in area hospitals and longterm care facilities. Prerequisite: Consent of the instructor.

- SPA 6559 Augmentative/Alternative Communication (3). Assessment and intervention strategies and technology for individuals with severe communication impairments. Prerequisite: Consent of the instructor
- SPA 6565 Dysphagia (2). Information and training in the evaluation and treatment of swallowing disorders. Prerequisite: Consent of the instructor.
- SPA 6930 Master's Project (1-6). This course provides the student with an opportunity to explore in-depth a specific topic of interest in speech pathology. Prerequisite: Permission of the instructor.
- SPA 6971 Master's Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of the Master's degree requirement. Prerequisite: Consent of the instructor.
- SPA XXXX Medical Clinical Practicum (Advanced) (3). Course will allow students the opportunity to engage in clinical practicum experiences at interdisciplinary medical settings with pediatric populations.

School of Nursing

Grossman, Divina, Ph.D., RN, ARNP, FAAN Director and Professor of Nursing

Blais, Kathleen, Ed.D., RN, Associate Professor, Nursing

Brooten, Dorothy, Ph.D., RN, FAAN Professor, Nursing

Freeman, Edward, Ph.D., RN-BC, ARNP Professor, Nursing Friedemann, Marie-Luise, Ph.D.,

RN Professor, Nursing
Galindo-Ciocoo, Daisy, Ph.D., RN,
CCRN, ARNP Associate Professor,

Nursing

Granville, Mirta, MSN, RN-BC, ARNP Clinical Assistant Professor, Nursing

Groom, Jeffrey, Ph.D., RN, CRNA, ARNP Clinical Associate Professor, Nursing

Hamilton, Margaret, DNS, RN
Clinical Assistant Professor,
Nursing

Hogan, Gerard, MSN, RN, CRNA, ARNP Visiting Clinical Assistant Professor, Nursing

Jones, Sandra, Ph.D., RN, ACRN, ARNP Assistant Professor, Nursing Lizardo, Lourdes, Ed.D., RN-BC,

ARNP Lecturer, Nursing Lobar, Sandra, Ph.D., RN-BC, ARNP Associate Professor, Nursing Lowe, John, Ph.D., RN Assistant

Professor, Nursing

McDonough, John, Ed.D., RN, CRNA, ARNP Clinical Professor, Nursing

Monaghan, Patrick, Ph.D., CLS, SBB Professor

Parchment, Yvoune, Ed.D., RN-BC, CCRN, ARNP Clinical Assistant Professor, Nursing

Phillips, Suzanne, Ed.D., RN, ARNP Associate Professor, Nursing

Porter, Luz, Ph.D., RN-BC, ARNP Professor, Nursing

Randall, Gwendolynn, MSN, RN, CRNA Assistant Clinical Professor

Welliver, Mark, MS, RN, CRNA Clinical Assistant Professor, Nursing

Williams, Charlene, MSN, RN, CRNA Clinical Assistant Professor, Nursing

Youngblut, Jo-Anne, Ph.D., RN, FAAN Professor, Nursing

The school is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, New York 10006 (212-363-555 ext. 153).

The School offers a program of study leading to the Master of Science in Nursing (MSN) degree to prepare qualified professional nurses for advanced nursing roles in the care of adults, children, and families. The program offers clinical tracks in adult health nursing (AHN), psychiatricmental health nursing (PMHN), family health nursing (FHN), child health nursing (CHN), and anesthesiology nursing (AN), and a track for the Nurse Executive (NE). The design of the program allows for the development of the blended nurse practitioner and clinical nurse specialist role, or the nurse anesthetist role.

Throughout the curriculum, students are guided in the process of self-development to pursue excellence in professional and scholarly endeavors. The program allows flexibility within the basic curricular structure through individualized learning experiences, electives, thesis, and the opportunity to investigate an area of interest in advanced study.

The curriculum model allows students to enroll on a full-time or parttime basis. The duration for the individual student study plan is determined in consultation with a faculty adviser and is based on the student's background and goals. The program can be completed in four semesters of full-time study for the AHN, CHN, PMHN, and NE tracks averaging 9-12 credit hours per semester. The FHN track can be completed in five semesters, ranging from 6-12 credits per term; the AN track requires seven semesters (full time only), varying from 7-16 hours per term. Part-time study can be completed in a variable time but not to exceed six vears.

Program Objectives

 Provide comprehensive, specialized quality care to clients in various settings, incorporating theories and advanced knowledge into nursing practice.

Utilize critical thinking, therapeutic communication and appropriate teaching, management, consultative, and advanced clinical skills in the exercise of professional responsibilities.
 Integrate developmental, cultural, spiritual, physiological, and psychosocial concepts in advanced professional role performance.

4. Investigate clinical problems and test theory, contributing to the theoretical basis of nursing and the specialty area.

5. Function as a leader and change agent in the health care and professional arena, enhancing improved delivery of health care and influencing health policy.

 Demonstrate leadership in the development and implementation of professional standards and conduct.

Graduates are qualified to apply for ARNP licensure in Florida and are prepared to apply for American Nurses Credentialing Center (ANCC) certification as an advanced nurse practitioner or a clinical nurse specialist in the chosen specialty area of adult health, child health or psychiatric-mental health nursing.

Admission Requirements

The applicant must:

 Meet the admission requirements for graduate education at Florida International University, that is, a 'B' average (3.0) in upper level work, or a combined score (verbal and quantitative) of 1000 on the Graduate Record Exam (GRE).

2. Have completed a baccalaureate degree in nursing which is accredited by the National League for Nursing Accrediting Commission (NLNAC), or the Commission on Collegiate Nursing Education (CCNE). Applicants with a baccalaureate degree from nursing programs without NLNAC or CCNE accreditation will be considered on an individual basis. Applicants to the MSN Program in Anesthesiology Nursing (AN) who have a non-nursing baccalaureate are eligible for admission through the MSN bridge program. Contact the AN Coordinator for specific details.

3. Have a GPA of at least 3.0 (B) in upper level work AND a combined verbal and quantitative score of no less than 1000 on the GRE.

4. Have evidence of a current RN licensure in Florida.

 Have at least one year clinical nursing experience as an RN. For AN applicants, this experience must be in critical care.

6. Have completed introductory courses in statistics (3 credits), and basic health assessment (3 creduts).

3

3

3

3

3

- 7. Submit evidence of basic computer application (word processing) skills.
- 8. Have a faculty interview.
- 9. Provide the following:
 - a. Statement of philosophy of nursing and professional goals.
 - b. Letters of reference from: 1) a previous nursing faculty; 2) a current immediate supervisor; and 3) a coworker.
- 10. For international students (graduates of foreign nursing schools) only:
- a. TOEFL score of at least 550 if not licensed as a registered nurse (RN).
- b. CGFNS certification of Florida RN license.

Application Process

Applicants must complete the following steps in order to be considered for admission:

 Complete two application forms as indicated and return to the appropriate offices to avoid unnecessary delay in the review process.

a. Application for admission to Graduate Studies to: Office of Graduate Admissions, Florida Interna-tional University, Biscayne Bay Campus, ACI-100, North Miami, Florida, 33181. Send with a \$20.00 nonrefundable service fee.

b. Application for admission to the MSN Program to: FIU School of Nursing, Biscayne Bay Campus, ACII-230, North Miami, Florida, 33181. Send application for admission to the MSN Anesthesiology Nursing Program to: FIU School of Nursing, ACI-331, North Miami, Florida, 33181 (No service fee).

2. Request an official transcript of records from each college or university attended for undergraduate and graduate work. A transcript must be sent to both 1) FIU Office of Admissions, and 2) the School of

 Schedule an interview with the Assistant Director for Admissions and Student Services (305-919-5915). The interview is for the purpose of discussing the admission criteria and application process, and identifying deficiencies and transferable credits.

4. Send three reference letters to the FIU School of Nursing, Biscayne Bay Campus, ACII-230, North Miami, Florida, 33181. For AN applicants, the SON application materials must include a complete, comprehensive, and current curriculum vitae. 5. Participate in an interview with a faculty member teaching in the graduate program. The interview is for the purpose of evaluating the educational goals, verifying application materials, reviewing admission criteria, identifying deficiencies and transferable credits, as well as projecting a tentative plan of study. The applicant should take an active role in the interview process to be informed about the program and the basis for the admission criteria.

Degree Requirements

- AHN, CHN, PMHN, or Nurse Executive Track: completion of 42 semester credit hours. Minimum of 36 hours in nursing and 3 hours of nonnursing electives. The non-nursing electives are restricted to supporting courses for the specialty area.
- FHN Track: completion of 52 semester credit hours. Minimum of 49 hours in nursing and 3 hours of nonnursing electives.
- 3. AN Track: completion of 71 semester credit hours as specified.
- 4. Completion of a thesis (6 hours) or a Master's paper (3 hours). Students electing a Master's paper must complete an additional three hours of cognate course(s).
- 5. Achievement of an overall cumulative GPA of 3.0 or above. A cumulative GPA of less than 3.0 will place the student on probation for one semester, and she/he may be subject to dismissal if the 3.0 GPA requirement is not met after the probationary period.
- Removal of all conditions, deficiencies, and incomplete grades.
 Credit hours for courses in which the grade is "C" or below will not count toward satisfying graduate degree requirements.

Students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the adviser.

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 Education and the Florida Board of Education and the Florida degislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Master of Science in

Nursing		
Curriculun	n	
Graduate N	Nursing Core (9)	
NGR 5110	Theories in	
	Nursing	3
NGR 5604	Culture and Advanced	
	Nursing Practice	3
NGR 5810	Research Methods in	
	Nursing	3
Advanced 1	Practice Nursing Core	е
(AHN, CH	N, PMHN, FHN	
Tracks) (9)		
NGR 5035C	Advanced Client	
	Assessment	3
NGR 5141	Pathophysiological	

Advanced Practice Nursing Core (NE Track) (9)

NGR 6192

Basis of ANP

Pharmacological

Concepts in ANP

NGK 3730C	Olg Dynamics of	
	Nursing Systems	3
NGR 5871C	Nursing Informatics	3
NGR 6726C	Nursing Management	
	and COI	3

Nursing Specialty Advanced Adult Health Nursing (12)

NGR 6201	Advanced Adult Health	
	Nursing 1	3
NGR 62101	L Advanced Adult Health	
	Nursing Practice 1	3
NGR 6202	Advanced Adult Health	
	Nursing II	3

NGR 6211L Advanced Adult Health Nursing Practice II

Advanced Child Health Nursing (12) NGR 6300 Advanced Child Health Nursing I

Advanced Child Health	
Nursing Practice I	
Advanced Child Health	
Nursing II	
	Nursing Practice I Advanced Child Health

NGR 6302L Advanced Child Health Nursing Practice II

Advanced Psychiatric-Mental Health Nursing (12) NGR 6502 Advanced Psychiatric-

Mental Health Nursing 13
NGR 6503L Advanced PsychiatricMental Health Nursing
Practice 1 3

NGR 6504C Advanced Psychiatric-Mental Health Nursing

NGR 6507L Advanced Psychiatric-Mental Health Nursing Practice II

Advanced 1	Family Health Nursing	5	NGR 6273L	Anesthesiology Nursing		NGR 5110	Theories in Nursing	3
(16)				Practicum IV	4	NGR 5141	Pathophysiologic Basis	
NGR 6601C	Advanced Family		NGR 6097	Principles of			of Advanced Nursing	
	Health Nursing I	4		Anesthesiology Nursing			Practice	3
NGR 6601L				IV	2	NGR 5604	Culture and Advanced	
	Health Nursing Practice		NGR 6274L	Anesthesiology Nursing	g		Nursing Practice	3
	I	4		Practicum V	4	Semester II (12)	
NGR 6602C	Advanced Family		NGR 6275L	Anesthesiology Nursing	g	NGR 5810	Research Methods in	
	Health Nursing II	4		Practicum VI	4		Nursing	3
NGR 6602L			NGR 6276L	Anesthesiology Nursing	g	NGR 6192	Pharmacological	
11011 00022	Health Nursing Practice			Practicum VII	4		Concepts in Advanced	
	II	4	Dala Davala				Nursing Practice	3
		7	Role Develo			NGR 6201	Advanced Adult Health	
	Family Health			ractice Nurse			Nursing I	3
	b-Specialty (6)		NGR	Elective	3	NGR 6210L	Advanced Adult Health	
NGR 6936	Special Topics in		NGR 6704L				Nursing Practice I	3
	Nursing	6		Advanced Nursing		Semester III		
(Intensive Pra	acticum in Specialized			Practice	4	NGR 6202	Advanced Adult Health	
Area: Select	One)		Role Develo	pment			Nursing II	3
*Managemen	t of Persons with		Nurse Anes			NGR 6211L	Advanced Adult Health	
HIV/AIDS		6	NGR 6010	Technology in		TOR OLLIE	Nursing Practice II	3
*Managemen	t of Survivors of		NOIC OUT	Anesthesiology Nursing		NGR 6970	Thesis I	3
Domestic Vic		6		I	1	Eelective	THCSIS I	2
	t of the Elderly	6	NGR 6760				(7)	4
-	The state of the s	-	NGK 0700	Professional Aspects of		Semester IV	Role Synthesis in	
Nurse Exec				Anesthesiology Nursing	g I	NOR 6/04L		
NGR 5723C	Advanced Nursing		NOR COOR	I	1		Advanced Nursing	
	Administration I	4	NGR 6098	Advanced		NOD COST	Practice	4
NGR 6724C	Advanced Nursing			Anesthesiology Nursing		NGR 6971	Master's Thesis II	3
	Administration II	4		Seminar	3	Sample Pro	gram Progression	
Anesthesio	logy Nursing (44)		Nursing Ad	ministration (7)		Plan (Part-T		
NGR 6091	Principles of			Advanced Nursing			ck: Adult Health Nursing	
	Anesthesiology Nursing			Administration III	4		ion: Master's Thesis	
	I	2	NGR 6727	Issues & Strategies of				
NGR 6011	Chemistry and Physics	~		Nursing Administration	1 3	Semester I (6		2
NOROUT	of Anesthesiology					NGR 5110	Theories in Nursing	3
	Nursing I	2	Nursing Ed			NGR 5141	Pathophysiologic Basis	
NGR 6173	Pharmacology of	2	NGR 6710	Role Synthesis in			of Advanced Nursing	
NOR 0173	Anesthesiology Nursing			Nursing Education	4		Practice	3
	Allestifesiology Nursing	I	NGR 6713	Curriculum		Semester II (
NGR 6270L	A - anthonial a - Niverina	•		Development in Nursin	ıg3	NGR 5035C	Advanced Client	
NOR 02/0L			Nurse Exec	utive (10)			Assessment	3
NCD CLAA	Practicum I	I	NGR 6712L	Role Synthesis in		NGR 6192	Pharmacological	
NGR 6144	Advanced Bioscience			Nursing Administration	1 4		Concepts in Advanced	
	for Anesthesiology	•	HSA 6176	Financing and			Nursing Practice	3
110m coos	Nursing I	3	115/1 01/0	Reimbursement of		Semester III	(6)	
NGR 6093	Principles of			Health Systems	3	NGR 5604	Culture and Advanced	
	Anesthesiology Nursing		PHC 6443	Ethical Issues	3		Nursing Practice	3
	II	3	FIIC 0443	Etilicai issues	3	NGR 5810	Research Methods in	
NGR 6174	Pharmacology of		Research (6	6)			Nursing	3
	Anesthesiology Nursing		Master's T	hesis Option		Semester IV		
	II	2	NGR 6970	MSN Thesis I	3	NGR 6201	Advanced Adult Health	
NGR 6092	Regional Anesthesia	2	NGR 6971	MSN Thesis II	3		Nursing I	3
NGR 6012	Chemistry and Physics		Master's Pa	aper Option		NGR 6210L	Advanced Adult Health	-
	of Anesthesiology		NGR 6970	MSN Thesis I			Nursing Practice I	3
	Nursing II	1	11011 0570	(Research Project)	3	Semester V (
NGR 6271L	Anesthesiology Nursing		Cognate Elec		3	NGR 6202	Advanced Adult Health	
	Practicum II	2	Elective		2	11010 0202	Nursing II	3
NGR 6094	Principles of				-	NGR 6211L	Advanced Adult Health	
	Anesthesiology Nursing		Sample Pro	gram Progression		140K 0211L	Nursing Practice I	3
	III	2	Plan (Full-7	Time Study)		NCD 4070		3
NGR 6272L		_	Specialty Tra	ck: Adult Health Nursing	z.	NGR 6970	Thesis 1	3
	Practicum III	3		ion: Master's Thesis		Semester VI		2
NGR 6145	Advanced Bioscience	,				NGR 6971	Thesis II	3
110101143	for Anesthesiology		Semester I (1			Elective		2
	Nursing II	3	NGK SUSSC	Advanced Client	,	Semester VII	l (4)	
	radioning in	,		Assessment	3			

NGR 6704L Role Synthesis in Adult Nursing Practice

Post-Master's Nurse Practitioner Certificate Program

This Post-Master's Nurse Practitioner Certificate Program is built upon a recent Master's degree in nursing with a clinical nursing major such as adult health nursing, child health nursing, or psychiatric/mental health nursing. Transcripts of previous work are reviewed by the Graduate Nursing Program Associate Director and a program of study is developed.

Nurse Practitioner Core (9)

NGR 5035C Advanced Client
Assessment 3
NGR 5141 Pathophysiologic Basis of Adult Nursing
NGR 6192 Pharmacological
Concepts in Advanced
Nursing Practice 3

MSN Core (3)
NGR 5604 Culture and Advanced
Nursing Practice

Primary Core (6-8)
NGR 6601C Advanced Family
Health Nursing 1
NGR 6601L Advanced Family
Health Nursing Practice

Role Development (4)
NGR 6704L Role Synthesis in
Advanced Nursing
Practice

Admission Requirements:

1. A Master of Science in Nursing (MSN) degree with a clinical nursing specialty from an NLN accredited program.

2. A graduate (MSN) grade point average (GPA) of 3.0 or above.

3. Graduate courses in nursing theory (3 credits) and research (3 credits).

4. State of Florida RN licensure. A photocopy of the license must be submitted along with student's application to the Post Master's Nurse Practitioner Certificate Program.

5. Pre-admission interview with a member of the Graduate Nursing Admissions Committee.

6. Two letters of recommendation.

Admission Procedures

 File application for admission directly to the School of Nursing Graduate Program Office prior to registration. 2. Submit official transcripts of all previous college work, both graduate and undergraduate.

3. If applicant has not previously attended Florida International University, she/he must pay a non-refundable application fee, payable to FlU.

4. Application file should be completed at least two weeks before registration. Qualified applicants will be admitted as non-degree seeking students.

Professional Certificate in Family-Focused Health Care Across Cultures

The objective of the certificate is to educate health care practitioners in the use of an international perspective through attitude, thinking processes and practice skills in their approach to health care either locally with ethnic group or abroad. This program responds to the demand for cultural expertise in the local community and world-wide. This program include possibilities for a semester of study abroad. With the exception of the practicum, all courses are entirely webbased.

Admission

3

Students must have previously earned a Bachelor's degree in a health of health-related profession. They must be admitted to the certificate program by the Associate Director for the Graduate Program who will serve as the advisor. Students will apply directly to the School of Nursing. They also must submit a graduate certificate application to the University. Transcripts and previous work are reviewed by the Associate Director for the Graduate Program at the School of Nursing who develops a program of study.

Introduction Seminar (3 weeks)

NGR 5935 Cultural Immersion for International Health Care 1-2

International Health Core
NGR 5604 Culture and Advanced

Nursing Practice 3
NGR 4610C Family Theory and
Nursing Intervention

Across Cultures
NGR 5640C Interdisciplinary Health
Care Across Cultures

Practicum (3 weeks) NGR 5632 Practicum

Practicum in International Family-Focused Nursing

Course Descriptions

Definition of Prefixes

GEY - Gerontology NGR - Nursing Graduate

GEY 5005C Issues in Gerontology for Health Professions (3). This course examiners social, economic, and demographic issues challenging older adults and health care professionals providing services to this age group.

NGR 5035C* Advanced Client Assessment (3). Refinement of health assessment skills fundamental to advanced nursing practice. Emphasis is on critical thinking and diagnostic reasoning required in accurate health assessments, differentiating normal and abnormal. Prerequisites: MSN admission; basic health assessment (3 credits). NGR 5141.

NGR 5099C Diagnostic and Therapeutics in Advanced Nursing Practice (3). Provides the advance practice nurse/student the theoretical background and clinical applications for diagnostics and therapeutics.

NGR 5110 Theories in Nursing (3). Analysis, evaluation, and application of nursing theories to practice, research, education and administration. Prerequisites: Departmental permission, Graduate standing.

NGR 5135 Legal and Ethical Dimensions of Advanced Nursing Practice (3). Analysis of legal and ethical precepts and application to moral and legal dilemmas in advanced nursing practice focusing on the advocacy role in promoting rights of individuals and families. Prerequisite: Consent of instructor.

NGR 5136 International Nursing System/Advanced Nursing Practice (3). Comparative analysis of philosophical, legal, political, economic and social underpinnings of the nursing progression within the context of international developments and trends in the post-cold war era.

NGR 5141 Pathophysiologic Basis of Advanced Nursing Practice (3). Focuses on the pathophysiologic basis of clinical judgment and client management in advanced nursing practice. Prerequisite: Graduate standing and permission of the department.

NGR 5207 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural,

physiological, psychological, social, and societal contexts of aging.

NGR 5250 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiologic alterations and their relationship to common health concerns and medical problems of the elderly.

NGR 5480 Women and Health: A Nursing Perspective (3). Analysis of the unique health concerns of women across the life span. Emphasizes a multidisciplinary approach. Prerequisite: Graduate standing.

NGR 5604 Culture and Advanced Nursing Practice (3). Theoretical models explanatory of culture and behavior manifestation of cultural diversity. Focuses on multicultural nursing and methodology for nursing care throughout the life span. Prerequisite: Departmental permission.

NGR 5610C Family Theory and Nursing Intervention Across Cultures (3). Students are exposed to selective family theories, family nursing assessment, intervention and evaluation. Culture and economic status and their influence on family structure and processes are addressed. Prerequisites: Graduate status, permission of instructor.

NGR 5632 Practicum in International Family Focused Nursing (1). Students apply learning about nursing care in another country, assessment and intervention with families by instituting a change in their work/practice place at home. Prerequisite: Permission of Instructor.

NGR 5640C Interdisciplinary Health Care Across Cultures (3). The course focuses on health care teams. Types of service, roles and interdisciplinary interaction will be studied as they relate to policies, economics, ethics and ethnic issues in various countries. Prerequisite: Permission of Instructor.

NGR 5723C Advanced Nursing Administration 1 (4). Analyzes how social/ethical/legal issues, workplace diversity and organizational culture influences nursing management. Strategies for recruitment, retention and managing human resources are included. Prerequisites: NGR 5XXX (Org. Dyn.). Corequisite: NGR 5XXX (Org. Dyn.).

NGR 5730C Organizational Dynamics and Nursing Systems (3). Course provides students with a theoretical and experimental understanding of group behavior in organizations. Emphasis is placed on skills to analyze, diagnose and intervene in organization.

NGR 5810 Research Methods in Nursing (3). Research methods and designs commonly used in nursing. Focuses on the research process as it is integrated through the interchange of theory, practice, and research. Pererequisites: Statistics, departmental permission and NGR 5110.

NGR 5871C Nursing Informatics: Computer Mediated Information Technology in Nursing (3). Introduction to principles/practices of computer/information technologies in nursing. Theoretical/applied aspects refined in hands-on lab. Prerequisites: Undergraduate statistics; Permission of the instructor.

NGR 5905 Independent Study in Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, Permission of the instructor, and admission to a graduate program.

NGR 5935 Cultural Immersion for International Health Care (1-2). The course introduces basic language, values, social etiquette, daily life, and interpersonal, family and health care patterns in a foreign country in preparation for cross-cultural health study. Prerequisite: Permission of Instructor.

NGR 5936 Special Topics in Nursing (1-6). Group study of a specific topic or a limited number of related topics in nursing. Prerequisite: Must be a nursing student or Florida licensed RN.

NGR 6010 Technology in Anesthesiology Nursing (1). The use and care of anesthesia equipment (mechanical and electronic) are discussed. Computers and their uses in anesthesiology are also included. Prerequisite: Graduate Anesthesiology

NGR 6011 Chemistry and Physics for Anesthesiology Nursing I (2). Detailed study of the chemical and physical principles which apply to physiology, pharmacology and anesthesia equipment. Emphasis is placed on biochemistry and physics of gases and vapors. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6012 Chemistry and Physics for Anesthesiology Nursing II (1). A continuation of the focus on the biochemical and physical principles required for understanding the mechanisms, actions, equipment and theories as they apply to anesthesia practice. Prerequisite: Graduate Anesthesiology Tract.

NGR 6091 Principles of Anesthesiology Nursing I (2). Broad field orientation to practice. Study of the areas of pre, intra, and postanesthesia planning and action. The induction and emergence from anesthesia, monitoring and record keeping are included. Prerequisite: Graduate Anesthesiology Tract.

NGR 6092 Regional Anesthesia (2). Theoretical and clinical aspects of the administration and management of regional anesthesia. Anatomy, physiology and pharmacology will be studied/applied to the administration of anesthetic blocks. Prerequisite: Graduate Nurse Anesthesiology.

NGR 6093 Principles of Anesthesiology Nursing II (3). The course will emphasize the anesthetic ananagement of the pediatric, geriatric and obstetrical patient. The course will review the specific anesthetic needs for each specialty. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6094 Principles of Anesthesiology Nursing III (2). Principles of cardiothoracis amesthesia, preoperative management, extracorporeal circulation, cardiac assist devices, and pharmacological intervention. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6097 Principles of Anesthesiology Nursing IV (2). The course will emphasize the anesthetic management of the emergency and trauma patient. A review of the assessment process, clinical management, and placement of appropriate monitoring lines. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6098 Advanced Anestheslology Nursing Seminar (3). Advanced clinical review as presented by the graduate students regarding specific case presentations. The course will serve as a review for the National

Certification Examination. Ртегеаuisite: Graduate Nurse Anesthesiology Track.

NGR 6123 Knowledge Development in Nursing Science (3). This course development. examines theory philosophical inquiry, and ways of knowledge. organizing nursing Attention is directed to inquiry as grounded in languages and cultures. Prerequisite: Departmental permission.

NGR 6144 Advanced Bioscience for Anesthesiology Nursing I (3). Course in human anatomy, physiology, and pathophysiology to include the effects of anesthesia on the cell, the circulatory system, and the respiratory system. Graduate Nurse Prerequisite: Anesthesiology Tract.

NGR 6145 Advanced Bioscience for Anesthesiology Nursing II (3). Study of the anatomy and physiology of the endocrine, excretory, and neurological systems. This will progress to the pathophysiology of these systems with emphasis on the application of anesthesia. Prerequisite: Graduate Nurse Anesthesiology Tract.

6173 Pharmacology οf NGR Anesthesiology Nursing I Pharmacology of drugs affecting the autonomic nervous system as well as anesthetic agents. Administration and doses of the drugs is included. Prerequisite: Graduate Anesthesiology Tract.

NGR 6174 Pharmacology Anesthesiology Nursing II (2). Course will study the uptake, distribution and biotransformation of anesthetics, including the advanced study of therapy in anesthesia of specialty areas and treatment of complications. Prerequisite: Graduate Anesthesiology Tract.

NGR 6192 Pharmacological Concepts in Advanced Nursing Practice (3). Principles of advanced clinical pharmacology: development, control, action, physiologic response and therapies. Emphasizes commonly prescribed drugs and implications for Advanced Nursing Practice. Prerequisites: Graduate standing and departmental permit.

NGR 6201 Advanced/Adult Health Nursing I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-tomoderate alterations in adaptive responses to acute/ emergent illness. Prerequisites: NGR 5035C, NGR 5110, NGR 6192...

NGR 6202' Advanced Adult Health Nursing II (3), In-depth study of severe alterations in adaptive responses to chronic and acute multi-system illnesses. Refinement of practice models, integrating theories of nursing and related sciences. Prerequisite: NGR 6210L, NGR 5810 and NGR 5604.

NGR 6210L Advanced Adult Health Nursing Practice I (3). Application of a conceptual model for advanced nursing practice focusing on adult clients in health and/or experiencing minimal-to-moderate alterations in adaptive responses to acute/emergent illness. Corequisite: NGR 6201.

NGR 6211L' Advanced Adult Health Nursing Practice II (3). Advanced nursing practice with adult clients experiencing severe alteration in adaptive responses to chronic/acute multi-system illnesses, focusing on comprehensive application of the nursing process. Corequisite: NGR 6202.

NGR 6270L Anesthesiology Nursing Practicum I (1). Introduction to the art and science of anesthesiology nursing. This course presents the basic concepts and introduces the students to the clinical component of the anesthesia management technique. Prerequisite: Graduate Anesthesiology Tract.

NGR 6271L Anesthesiology Nursing (2). Clinical Practicum II anesthesiology correlation conferences on a weekly basis. This clinical component includes the fundamentals of patient interaction under the direct supervision of a CRNA instructor. Prerequisite: Completion Sem. 1 Anesthesiology.

NGR 6272L Anesthesiology Nursing Practicum III (3). (Include Clinical Case Conference). Case presentations to include the clinical component of anesthesia of progressively advanced cases. The instruction is under the direct supervision of CRNA to include semesters. between university Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6273L Anesthesiology Nursing Seminar Practicum IV (4). presentations weekly. Clinical experience: anesthetic management of advanced specialties, including insertion of monitoring lines as

appropriate, and progression begin oncall experience. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6274L Anesthesiology Nursing Practicum V (4). Students will incorporate information learned in Practicum I-IV in order to anticipate anesthesia needs for patients in all clinical settings, including postoperative and chronic management. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6275L Anesthesiology Nursing Practicum VI (4). Advanced practice to include completion of clinical competencies in all specialty areas. This includes professional conduct of the advanced practitioner to include knowledge of advance practice role. Graduate Nurse Prerequisite: Anesthesiology Tract.

NGR 6276L Anesthesiology Nursing Practicum VII (4). Course in which a graduate functions as the primary nurse anesthetist, and the instructor as a consultant. Experience will be provided with management within the department of anesthesiology. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6300 Advanced Child Health Nursing I (3). Development of a conceptual model for family-centered nursing of children, increasing the breadth and depth of students' theoretical foundation unique to the specialty area. Prerequisites: NGR 5110, NGR 5035, and NGR 6192.

NGR 6301L Advanced Child Health Nursing Practice I (3), Application of a conceptual model for advanced nursing practice focusing on health states and adaptive alterations of children observed in primary care settings. Corequisite: NGR 6300.

NGR 6303C Advanced Child Health Nursing II (3). Extension and refinement of students' theoretic foundation focusing on family-centered care of children requiring high level technological care and/or multidimensional rehabilitation. Corequisites: NGR 6301L, NGR 5604, and NGR 5810.

NGR 6302L Advanced Child Health Nursing Practice II (3). Application of a refined conceptual model for advanced nursing practice focusing on family-centered care of children requiring complex technological care and/or multidimensional rehabilitation. Corequisite: NGR 6303C.

NGR 6333 Conceptual Issues in Nursing Management of Developmental Disabilities (3). Study of developmental theories, concepts and research findings in context of nursing model. Problems relevant to nursing intervention are examined through critique of pertinent literature. Corequisites: Graduate standing and permission of the department.

NGR 6502C Advanced Psychiatric Mental Health Nursing I (3). Development of an advanced practice nursing model in psychiatric-mental health across settings and populations. Prerequisites: NGR 5035C, 5141, NGR 6192. Corequisite: NGR 6503L.

NGR 6503L* Advanced Psychiatric-Mental Health Nursing Practice I (3). Management of psychiatric mental health disorders in time-limited and extended care therapies in collaboration with health care providers across delivery systems. Blends the ARNP/CNS. Corequisite: NGR 6502.

NGR 6504C Advanced Psychiatric-Mental Health Nursing II (3). Continued development of advanced practice nursing model in the psychiatric care of individuals, groups and families across settings and populations. Prerequisites: NGR 6502C, NGR 6503L. Corequisite: NGR 6507L.

NGR 6507L* Advanced Psychiatric-Mental Health Nursing Practice II (3). Application of advanced practice nursing model with clients that have complex psychiatric problems or are at high risk. Collaborative process in therapy, consultation, and planned change. Corequisities: NGR 6504C.

NGR 6601C Advanced Family Health Nursing 1 (4). Specialization, expansion, and advancement of research based knowledge and skills fundamental to the advanced practice of family nursing in primary care. Prerequisite: NGR 5310 and NGR 5035, Corequisite: NGR 5604 and NGR 6192.

NGR 6601L Advanced Family Health Nursing Practice I (4). Clinical management of common problems of children and selected diseases of adults in advanced nursing practice, the family being the unit of service. Blends the FNP/CNS role in delivery of primary health care. Corequisite: NGR 6601C. NGR 6602C Advanced Family Health Nursing II (4). Continuing development of specialized knowledge and skills critical to the blended FNP/CNS role in primary health care. Refinement of a nursing model of practice, the family as unit of service. Prerequisite: NGR 5604, NGR 5810, and NGR 5871C.

NGR 6602L Advanced Family Health Nursing Practice II (4). Clinical management of multisystem problems of children and adults commonly seen in primary care settings. Further development of the blended FNP/CNS role with the family as unit service. Corequisite: NRG 6602.

NGR 6704L Role Synthesis in Advanced Nursing Practice (4). Advanced nursing practice role with diverse client population. Role developed through contractual agreements in collaboration with faculty and mentors. Prerequisites: NGR 6211L or NGR 6507L or NGR 6302L.

NGR 6710* Role Synthesis in Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6712C' Advanced Nursing Administration III (4). Intensive practicum applying leadership, decision-making, management, and administration theories and concepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6726C, NGR 5871C, HAS 6176, PHC 6443, NGR 6XXX (II).

NGR 6713 Curriculum Development in Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission. NGR 5110.

NGR 6724C Advanced Nursing Administration II (4). Discusses financial issues surrounding nursing and the development and refinement of budgeting skills. Included are the nurse as entrepreneur, marketing, budgets and computers in financial management. Prerequisites: NGR

6XXX (Adv. Nsg. Adm. 1). Corequisite: HAS 6176

NGR 6725 Issues and Strategies of Nursing Administration (3). Analysis of issues, principles, and concepts of nursing administration. Includes synthesis of behavioral and organizational theories with institutional goals in formulation of administrative strategies. Prerequisites: Graduate standing and departmental permission.

NGR 6726C Nursing Management and Continuous Quality Improvement (3). Role of nurse managers in developing and implementing continuous quality-improvement programs; implications of such programs on health care delivery. Includes role of middle management in personnel development and promoting nursing research in the clinical arena. Corequisites: NGR 6211L, or NGR 6507L, or NGR 6302L.

NGR 6760 Professional Aspects of Anesthesiology Nursing (1). This course explores: American Association of Nurse Anesthetists, Councils on Accreditation, Certification and Practice and Professional issues for the practice model of Anesthesiology in Nursing. Prerequisite: Graduate Nurse Anesthesiology Tract.

NGR 6800 Advanced Nursing Research Methods 1: Design and Sampling (3). The first course in a 2-course sequence on the design and conduct of nursing research focuses on the conceptual and empirical basis, design, sampling, and ethical conduct of nursing research. Prerequisite: Departmental Permission.

NGR 6801 Advanced Nursing Research Methods II: Measurement and Dissemination (3). The second course in a 2-course sequence on the design and conduct of nursing research focuses on measurement in nursing research, data management and analysis, and dissemination of findings. Prerequisite: NGR 6800.

NGR 6917 Grantsmanship I (1). The first course in a 3-course series on development and funding of programs of research focuses on successful research programs, planning a research trajectory, and obtaining predoctoral funding. Prerequisite: Departmental permission.

NGR 6918 Grantsmanship II (1). The second course in a 3-course series on development and funding of programs

of research focuses on refinement of student trajectories, and grantsmanship for small research grant funding. Prerequisite: Departmental permission.

NGR 6919 Grantsmanship III (1). The third course in a 3-course series on development and funding of programs of research focuses on grantsmanship for major research funding targeted to federal and major foundation sources. Prerequisite: Departmental permission.

NGR 6939C NSG Management of At-Risk Populations (6). Intensive practicum and seminar in management of high-risk populations focusing on the elderly, or persons with HIV/AIDS, or survivors of domestic violence, or any other targeted high-risk group. Prerequisites: Departmental permit. Corequisites: NGR 6601L/NGR 6210L.

NGR 6970 Master's Thesis 1 (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Completion of a research project for non-thesis students. Prerequisite: NGR 5810. Corequisites: NGR 6302L.

NGR 6971 Master's Thesis II (3). Implementation through completion of student's research thesis proposal. Prerequisite: NGR 6970.

NGR 7736 Academic Health Care and Political Systems: Function, Structure Leadership and Survival.

(3). Analyzes purpose, structure, function, challenges, politics of academic, health care and political systems. Examines leadership roles, strategies for change and dealing with organizational politics. Departmental permission.

NGR 7830 Research in Health Care for Multicultural Diverse and Vulnerable Populations (3). The course focuses on research issues with multicultural, diverse, and vulnerable populations. Prerequisite: Departmental permission.

NGR 7873 Accessing, Managing and Packaging Information (3). Focuses on finding, obtaining, evaluating, managing, and disseminating information from the internet and other sources, and packaging information to convey a message and maximize the impact using current technology. Prerequisite: Departmental permission.

NUR 5495 Women's Health Issues (3). This course is designed to acquaint the student with selected conditions impacting the health of women.

*All students must provide evidence of personal professional liability insurance prior to registering for any clinical nursing courses.

School of Policy and Management

Lourdes Rassi, Associate Director

The School of Policy and Management includes Criminal Justice, Health Services Administration, Health Information Management, and Public Administration.

Criminal Justice

Joseph Byrnes, Instructor Ellen G. Cohn, Associate Professor Stewart D'Alessio, Associate

Professor
David Eitle, Assistant Professor
Scott Fingerhut, Visiting Instructor
Suman Kakar, Associate Professor
Ramiro Martinez, Associate Professor
Luis Salas, Professor, Coordinator
Harlan Sands, Instructor
Lisa Stolzenberg, Associate Professor
W. Clinton Terry, Associate Professor
Criminal Justice is an area of study

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

- To provide present and future criminal justice managers with the skills needed to function effectively in our ever-changing society.
- 2. To serve as a catalyst for interdisciplinary research and study of criminal justice and related problems.
- 3. To provide the criminal justice system with qualified students for academic careers in administration,

planning and analysis, and teaching in colleges and universities.

Students having a Bachelor's degree from an accredited institution and a minimum of a 3.0 GPA in all undergraduate upper division work, or a total score of 1000 on the Graduate Record Examination (verbal and quantitative) or a score of 500 on the Graduate Management Admission Test (GMAT), or a graduate degree from an accredited institution are eligible for admission to the program. All applicants must complete the GRE prior to full admission status. A maximum of 15 semester hours may be taken as a non-degree seeking student. No more than 12 hours earned as a non-degree seeking student may be counted toward the degree. This status does not guarantee admission to the degree program.

Admissions Requirements

Applicants to the Master's in Criminal Justice must:

- Have earned a bachelor's degree from an accredited institution and
- Earn a GPA of 3.0 or better in all upper division undergraduate course work and
- Obtain a letter of recommendation from a faculty member at their undergraduate institution or a professional and
- Demonstrate graduate level writing competency by submitting an essay three to five pages in length that addresses personal and career goals.

An applicant who feels the earned GPA is not indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination which will be taken into consideration by the admissions committee in its evaluation of the application.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors, including compatibility of the applicant's career goals with the program's objectives, relevance of work experience, etc. The program's admissions committee may require a personal interview as part of the application process.

Degree Credit Requirements

The Master's degree in Criminal Justice requires 39 credit hours (13 courses). A maximum of six semester hours not included in another degree may be transferred into the program from an accredited institution, subject to the approval of the Program Coordinator.

All students entering the program are required to complete five courses (15 credits) of core requirements, and eight elective courses (24 credits). Thesis track students will select two courses (6 credits) of electives and two thesis courses (6 credits).

All elective courses must be earned at the graduate level (i.e., course numbers of 5000 and higher). Two courses (6 credits) may be taken outside of criminal justice, if no courses have been transferred into the program from another degree program.

Effective for students entering the program August 1, 2000 or afterward, Advanced Standing provides students with an undergraduate degree in criminal justice or in a criminal justice-related field to waive two elective courses (6 credits). Students must apply for Advanced Standing upon admission to the Program. To apply for Advanced Standing, the student must complete an Advanced Standing Petition Form. The Program Coordinator must approve the application for Advanced Standing.

Core Requirements

All candidates must take five core

courses (15 cr	edits).	
CCJ 5106	Law and Social Control	3
CCJ 5479	Seminar in Administra-	
	tion of Justice	3
CCJ 6025	Theory in Administra-	
	tion of Justice	3
URS 6155	Quantitative Methods	
	for Policy and	
	Management	3
URS 6806	Applied Research and	
	Evaluation Techniques	3

Specialization

24 Elective Credits (Required)

Thesis Track: Those selecting the thesis option are required to complete five courses (15 credits) of core requirements, six elective courses (18 credits) of electives, and two thesis courses (6 credits). Thesis track students will select a committee of three graduate faculty members. The student's major faculty advisor is a

member and chair of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the master's program.

Non-Thesis Track: The non-thesis option consist of five courses (15 credits) of core requirements and eight elective courses (24 credits).

Electives

Six courses (18 credits) for thesis track or eight courses (24 credits) for nonthesis track. All elective credits must be earned at the graduate level (i.e., course numbers of 5000 and higher). Two courses (6 credits) may be taken outside of criminal justice, if no courses have been transferred into the program from another degree program.

Advanced Standing

Advanced standing provides students with an undergraduate degree in criminal justice or in a criminal justicerelated field to waive two elective courses (6 credits). Students must apply for Advanced Standing upon admission to the Program. To apply for Advanced Standing, the student must complete an Advanced Standing Petition Form. The application for Advanced Standing must be approved by the Criminal Justice Program Coordinator.

Graduation Requirements

To receive the Master's degree in criminal justice, a student must satisfy all University regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the five core courses, four specialization courses, two thesis courses, and two electives. 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 five core courses, and four specialization courses, and four electives. minimum GPA of 3.0 is required.

Master of Health Services Administration/Master of Public Administration

Professionals in Public Administration and in Health Services Administration have expressed a substantial need to better understand both fields. Health services account for the largest category of expenditures in local and state governments, resulting in the need for public administrators who also are familiar with Health Services

Administration. The vast majority of .. health services are provided by nonprofit, government owned entities, resulting in the need for health services administrators . who understand government administration. The Joint MHSA/MPA Degree responds to these

This degree is the result of a joint effort by the Graduate Program in Health Services Administration and the Graduate Program in Public Administration. Both programs are in the School of Policy and Management. and are fully accredited.

The Graduate Program in Health Services Administration is accredited by the Accrediting Commission on Education for Health Services Administration (ACEHSA). The Graduate Program in Public Administration is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA). Accreditation by these agencies ensures the student that the programs have been reviewed and meet the national standards for graduate studies in these fields.

The Joint MHSA/MPA Degree prepares students for careers in public service and non-profit organizations, including management careers in health services organizations. It also prepares students for private sector positions having significant contact with public 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 rolls in government and health services delivery. While enhancing their career, they bring the value of their experience to the classroom.

Listed below are the courses and credits required for the joint degrees:

Health Services Administration Core MHSA Courses

Group 1		
HSA 5125	Intro to Health Service	
HSA 6415	Managerial Application of the Social	s
	Determinants of Health	1
HSA 6176	Financing and	
	Reimbursement of	
	Health Systems	
URS 6155**	Applied Statistics for	
	Urban Services	
Group 2		

g	e of Health ar	d Urban Affairs 371	
	HSA 6155	Health Policy and Economics	1
	URS 6654**	Applied Organizations Theory and Behavior	3
	Group 3	ancory and behavior	,
	HSA 6149	Strategic Planning and Marketing of Health	
	URS 6130**	Care Services Human Resource Policy and	3
		Management	3
	HSA 6197	Design and	
		Management of Health	1
	HSA 6185	Information Systems Health Services	3
		Organization and	
		Management I	3
		s Specialization*	3
	Group 4	D 6 : 10 : :	
	HSA 6930	Professional Seminar in Health Services	
		Management	J
	HSA 6426	Health Law and Legal	•
	HSA 6717	Aspects of Management Advanced Health	3
		Services Management	
		and Research Seminar	3
	Total MHSA		3'
	Public Admi	inistration Core MPA	L
	Courses		
	Group 1		
	PAD 5256	Public Economics and	
		Cost Benefit Analysis	3
	PAD 6227	Public Finance and the	3
	URS 6028	Budgetary Process Policy Analysis nad	3
	010 0020	Program Planning	3
	URS 6155**	Applied Statistics for	
		Urban Services	3
	Group 2		
	URS 6378	Leadership and	3
	URS 6436	Decision-making Professionalism and	ر
	0110 0 100	Ethics	3
	URS 6654**	Applied Organizations	
		Theory and Behavior	3
	URS 6806	Applied Research and Evaluation Techniques	3
	Group 3	Harman Dassaures	
	URS 6130**	Human Resource Policy and	3
	Health Service	Management es Specialization*	J
	Specialization	es Specialization	3
	Group 4 Specialization		3
	Specialization		3
	PAD 6056	The Practice of Public Management	3
	Total MPA		<u>3(</u>
	**Total Cour	ses for Joint Degree (67	
	,		

*HSA 6977 or HSA 6875 - one of these courses must be taken.

Course Descriptions Definition of Prefixes

CCJ-Criminology and Criminal Justice; URS-Urban Regional Studies.

CCJ 5040 Comparative Crime and Criminal Justice Systems (3). Analysis of comparative crime and criminal justice systems. Emphasis on understanding crime, criminology, and criminal justice systems from international and cross-cultural perspective. Focus on U.S., European, Asian and African criminal justice systems.

CCJ 5056 Historical Development 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 5106 Law and Social Control (3). This course examines law as an instrument of social control and the legal basis of criminal law. The legal limitations on criminal justice institutions and policies are also considered.

CCJ 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 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 5479 Semioar In Administration of Justice (3). This course provides students with a critical understanding of the responses to crime. Emphasis is placed on theory and research relating to the effectiveness of the criminal justice system.

CCJ 5525 Seminar in Juvenile Delinquency (3). Focuses on the nature, scope, and causes of delinquency; considers problems of the assessment and measurement of delinquency. The philosophy, procedures, and effectiveness of the juvenile courts will be examined, including abuse, dependency, neglect, delinquency, and family law.

CCJ 5669 Minorities in Justice Administration (3). Focuses upon the disparity in outcomes for minority groups (i.e. racial/ethnic/sexual) across the criminal justice system, and on alternative explanations for those differences in outcome. Also, issues related to the hiring and promotion of minority groups who work in the criminal justice system will be discussed.

CCJ 5935 Special Topics (3). An intensive analysis of a particular topic in criminal justice not otherwise offered in the curriculum. Topics may change each term, but may include organized crime, white collar and political crime, victimology, ethics, terrorism, sentencing, information systems, and other topics based on student interest or current concern. May be repeated. Prerequisite: Graduate Standing.

CJC 5320 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.

CJE 5024 Violent Crime & Criminal Behavior (3). This course deals with violent criminal behavior and the criminal justice system's reaction to violence.

CJE 5025 Police Organization, Behavior, and Administration (3). Analysis of the organization and administration of police departments and their effects on police behavior.

CJL 5076 Legal Aspects of Corrections (3). A study of the contemporary legal rights of convicted offenders, including the impact of litigation on offenders, correctional agency personnel and operations, and other justice agencies. Case law and statutes will be reviewed within the context of the punishment and/or rehabilitation of the offender.

CJL 5422 Seminar in Criminal Law and Procedure (3). This course examines substantive criminal law as a basis of social control in our country. Contemporary issues such as insanity defense, sexual assault, and abortion will be among the topics explored. Criminal procedure issues relating to the right to counsel, search and seizure and interrogation will also be examined.

CCJ 6025 Theory in Administration of Justice (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6456 Administration and Management of Criminal Justice Agencies (3). An examination of the criminal justice system from the perspective of administrative and management theory. Emphasis is upon the identification of organizational and administrative problems and their solutions.

CCJ 6477 Seminar in Information Systems (3). An advanced seminar in the survey and application of electronic data in the criminal justice system. Prerequisite: Permission of the instructor

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship of victims and offenders and the manner in which the criminal justice system responds to victims of crime.

CCJ 6716 Planning and Program Evaluation (3). A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation.

CCJ 6915 Directed Individual Graduate Study in Criminal Justice (3). Students can select a particular aspect of criminal justice for in-depth independent study with a criminal justice faculty. Prerequisite: Graduate Standing.

CCJ 6945 Field Experience in Criminal Justice (3). A course designed to provide selected students an opportunity to engage in action-oriented research within a criminal justice agency on a designated research project.

CCJ 6971 Thesis Research (1-3). This course is devoted to the actual research labor required for a thesis in the Masters program.

CCJ 6976 Masters Thesis Defense (1-3). This course is devoted to the effort required to prepare the thesis document.

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 6227 Public Finance and the Budgetary Process (3). Examines the theory and practice of public budgeting and its relationship to the adminstrative processes of control, manageent and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in intergovernmental financial relations.

URS 6130 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how the manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations.

URS 6155 Quantitative Methods for Policy & Management (3). An intensive introduction to statistical and forecasting tools appropriate for public, nonprofit, and health professionals. Prerequisites: URS 4112 or equivalent.

URS 6436 Professionalism and Ethics (3). Examines behavioral approaches toward understanding the personal world of public managers with emphasis on knowledge, skills, and abilities which aid effective goal accomplishment.

URS 6654 Applied Organization Theory and Behavior. (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.)

URS 6806 Applied Research and Evaluation Techniques (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contem-porary critiques on research design. Prerequisite: URS 6155.

Health Services Administration

David Bergwall, Associate Professor Gloria Deckard, Associate Professor Kristina Guo, Assistant Professor Frederick Newman, Professor Max Rothman, Senior Lecturer Nazmi Sari, Assistant Professor Vandon White, Professor Emeritus

The program in Health Services Administration offers graduate and undergraduate studies leading to Bachelor's and Master's degrees in Health Services Administration.

The Graduate Program in Health Services Administration is accredited by the Accrediting Commission on Education for Health Services Administration (ACEHSA). Accreditation by this agency ensures the student that the program has been reviewed and meets the national standards for graduate studies in the field.

The management of health services occurs in an environment organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. Many of the same skills needed for executive management are now also required to provide leadership in staffing, directing, coordinating, and controlling operational resources administrative and clinical units in such organizations.

The Master of Health Services Administration (MHSA) provides professional education for management careers in health services organizations. The degree addresses the theories and issues of managing complex organizations in both public and private settings. The program is organized to meet the needs of the working student. Many individuals enrolled are already employed in administrative roles in the field. While enhancing their career, they bring the wealth of their experience to the classroom.

The Master's program is designed so that full-time students may complete all course work in five semesters. The same curriculum can be completed by part-time students within three years. Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytic and policy functions of health services administration.

Since these studies provide a professional emphasis, the Program utilizes a variety of local hospitals, long-term care facilities, mental health programs, multi-institution corporations, emergency medical systems, health maintenance organizations, community health centers, and related public health and private agencies to give students supervised field experiences and a 'practical laboratory' for operational research in health service administration.

The goal of the program in Health Services Administration is to create an academic center in which the University can respond to the educational needs of the field of health services administration. The Program's mission, therefore, is dedicated to the following educational objectives:

- 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 inter-professional education experiences with faculty, students, and practitioners of the allied health sciences, public affairs, public health, and related human services professions interacting with the field of health care management.
- 3. To extend consultation and technical assistance to appropriate organizational settings and practitioners in health services and administrative practice.
- 4. To conduct scholarly and applied research on various management problems and issues of significance to improve the delivery of health services.
- 5. To review and revise program curricula and objectives from time to time in order to keep current with the changing educational and professional needs of the field.

Master of Health Services Administration

Admission Requirements

Students seeking admission into the graduate program must meet the following minimum requirements:

- 1. Satisfactorily meet the general University requirements for admission to graduate programs.
- Hold a Bachelor's degree from a regionally accredited university or college.
- Show promise of success in graduate studies as determined by the faculty. Admission to the program will

be based upon a combination of the Graduate Record Examination (GRE) and the upper-division (last 60 hours) grade point average. Students who have taken the Graduate Management Admissions Test (GMAT) may submit that score in place of the GRE. Each applicant must have a composite score on the verbal and quantitative sections of the GRE of at least 1000 (for the GMAT at least 450) or a GPA for the last 60 hours of 3.0 or higher on a 4.0 scale. All applicants are required to submit a GRE or GMAT score.

- 4. Foreign students must obtain a minimum score of 500 on the TOEFL examination.
- 5. Prerequisites for admission include course work in accounting and statistics with a grade equivalent of 'C' or higher. Entering students are expected to possess basic microcomputer skills including word processing, Internet, and spreadsheet applications. Students who do not have these skills or prerequisites may complete these requirements in their first semester of study.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors including compatibility of the applicant's career goals with the programs objectives, relevance of work experience, etc. The Program Admissions Committee may require a personal interview as a part of the application process.

All applications for admissions should be received by the Program no later than two months preceding the semester in which the student wishes to commence the program. A maximum of 12 semester hours taken as an affiliated student can be used toward the degree. Affiliated status does not guarantee admission to the degree program.

Admissions Procedures

A student wishing to enroll in the graduate program must complete the following:

- 1. Submit a Graduate Application to the University Admissions Office.
- 2. Have official transcripts of all previously earned college or university credits sent to the University Admissions Office.
- 3. Submit scores on the Graduate Record Examination or GMAT.

Effective for students entering the program 8/30/95 or afterward, Advanced Standing provides students with an undergraduate degree in Health Services Administration or in an

administrative discipline to waive equivalent course content and to complete the Master's of Health Services Administration degree with 42 to 48 credit hours. The maximum allowable waiver of courses for Advanced Standing is nine credit hours. Courses for which the waiver may be granted include:

HSA 5125 Introduction to Health Services

URS 6654 Applied Organization
Theory and Behavior
HSA 6426 Legal Aspects of Health
Care

Students must apply for Advanced Standing upon admission to the Program or during their first semester in the Program. To apply for Advanced Standing, the student must complete an Advance Standing Petition Form and document equivalent course content with a grade of "B" or better. The application for Advanced Standing must be approved by the three member HSA Curriculum Committee.

Students entering the MHSA program with an undergraduate degree in business administration (BBA) and possessing equivalent courses in management, organization theory and organizational behavior course work may apply for a waiver of URS 6654 Applied Organization Theory and Behavior allowing them to complete the Program in 48 credit hours.

Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for the Master of Health Services Administration Program.

2. Complete a minimum of 45 semester hours of graduate level course work in the approved program.

3. Eam a minimum overall GPA of 3.0 in all work completed at the University as a graduate student.

4. No courses in which a grade below 'C' is earned may be counted toward the Master's degree.

5. A maximum of nine semester hour-credits of graduate course work not included in another degree, may be transferred from an accredited university by petition at the time of admission.

All students completing the Master's program are subject to graduate student regulations and degree requirements governed by the policies of the College of Urban and Public Affairs and the University.

Courses are sequenced to enhance—the development of competencies as students progress through the curriculum. Students need to pay attention to course prerequisites and adhere to course sequencing.

Program Total: (45) Core Courses required of all students: (40)

HSA 5125 Introduction to Health
Services 3
HSA 6415 Managerial Applications
of Social Determinate of
Health 3
HSA 6176 Financing and

Reimbursement of Health Delivery Systems HSA 6195 Ouantitative Methods and Analysis HSA 6155 Health Policy and

Economics 3
HSA 6175 Financial Management
of Health Services 3
URS 6654 Applied Organization

Theory and Behavior 3
HSA 6756 Applied Program
Development and
Evaluation Methods 3

HSA 6149 Strategic Planning and
Marketing of Health
Care Services 3

URS 6130 Human Resource Policy and Management 3 HSA 6197 Design and Management of Health Information

Systems 3
HSA 6185 Health Services
Organization and

Management 1 3
HSA 6426 Health Law and Legal
Aspects of Management 3
HSA 6717 Advanced Health

HSA 6717 Advanced Health Services Management and Research Seminar 2

Electives: 5 Elective Credits (Required)

Field Elective: Select one (3 credits)
HSA 5225 Long Term Care
Management I

HSA 6205 Hospital and Health
Facilities Management 3
HSA 6215 HMO and Ambulatory
Care Administration 3

3

3

6

HSA 6245 Mental Health
Administration and
Planning

Integrative Experience
Select one of the following three (2-6
Variable Credits)

HSA 5876 Administrative Residency in Nursing Home Settings

HSA 6875 Administrative

Residency 2-6
HSA 6977 Master's Research
Project 2-6

Nursing Home Administration

Students interested in nursing home administration and seeking licensure as a nursing home administrator in the State of Florida are advised to take the following courses within their program of study:

HSA 5225 Long Term Care

Management I 3
HSA 5227 Long Term Care
Management II 3
HSA 5177 Financing and
Reimbursement for
Long Term Care (in place of HSA 6176) 3
HSA 5876 Administrative
Residency in Nursing
Home Settings 6

Administrative Residency

An administrative residency in a health care organization is offered to all students. Students lacking health services administrative experience are encouraged to complete an administrative residency.

The residency is considered an integral part of the educational process. It is designed to provide practical experience with the theories, concepts, and administrative skills the students acquired during the first year of academic study. The residency is normally arranged in an agency or institution compatible with the student's area of interest. The student works full-time with the health agency during this period. The faculty supervises the student during this period.

Students must apply for the administrative residency, be approved and placed in an agency by the Program the semester before the residency begins.

Juris Doctor/Master of Health Services Administration Joint Degree Program

The faculties of the College of Law and the School of Policy and Management at Florida International University have approved a joint degree program culminating in both a Juris Doctor degree (J.D.), awarded by the College of Law, and Master of Health Services Administration degree (M.H.S.A.), awarded by the School of Policy and Management. Under the joint degree program, a student can obtain both degrees in significantly less time than it

would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree program are as follows:

1. Candidates for the program must meet the entrance requirements for and be accepted by both programs. Both programs must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.

2. The joint degree program is not open to students who have already earned one degree.

3. For law students, enrollment in the M.H.S.A. program is required no later than the completion of 63 credit hours in the J.D. program. For M.H.S.A. students enrollment in the J.D. program is required no later than the third semester after beginning the M.H.S.A. program.

4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The School of Policy and Management will allow 12 credit hours of College of Law courses, as approved by the Director of the School of Policy and Management, to be credited toward both the M.H.S.A. and J.D. degrees. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.H.S.A. curriculum upon completion of the M.H.S.A. degree with a grade point average of 3.0 or higher.

5. A student accepted by both degree programs may begin studies in either the College of Law or the School of Policy and Management, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students electing to begin study in one school under the joint degree program may enter the second school thereafter without once again qualifying for admission so long as they have notified the second school before the end of the first week of the first semester in the second school and are in good academic standing when studies commence in the second school.

6. A student enrolled in the joint degree program will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.

7. Students in the joint degree program will be eligible for the graduate teaching assistantships and research assistantships in the School of Policy and Management on the same basis as other M.H.S.A. students, subject to the guidelines and restrictions set by the School of Policy and Management.

8. The joint degree program began with the 2002-2003 academic year.

Course Descriptions Definition of Prefixes

GEY - Geronotology

HSA - Health Services Administration; URS-Urban and Regional Studies

GEY 5006 Foundation in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

HSA 5125 Introduction to Health Services (3). The American health care system is broadly analyzed in social, economic, and political terms, including examination of its major operational and programmatic components as they have evolved in their changing patterns and trends of organizational development.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA 5225. Corequisite: HSA 5227.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 6185.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems in the U.S. with special emphasis on the State of Florida.

HSA 5227 Long Term Care Management II (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care given in nursing homes. Corequisite: HSA

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 the consumer behavioral model.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency In Nursing Home Setting (3-6). Students will spend 480 hours of supervised practice in a selected nursing home to gain experience in organization and management within the nursing environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227.

HSA 6147 Comparative Health Systems and International Health Planning (3). Students are directed through a study of the social, economic, political, and cross-cultural aspects of comparing health care systems of different countries of the world in terms of international perspective and relevance to future developments in the U.S. system.

HSA 6149 Strategic Planning and Marketing of Health Care Services (3). Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the health services industry. Prerequisites: HSA 6175 and HSA 6415, or Permission of the instructor.

HSA 6155 Health Policy and Economics (3). The impact of

government, private sector, and various interest groups on health care policy determination is analyzed through the application of basic economic principles. Prerequisite: HSA 6175 or Permission of the instructor.

HSA 6175 Financial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisite: HSA 5125, HSA 6185, HSA 6176, or Permission of the instructor.

HSA 6176 Financing & Reimbursement of Health Systems (2). Financing models for health delivery systems are examined. Reimbursement strategy of medicare, medicaid and other third party payers are analyzed. Prerequisites: Accounting and microeconomics or permission of the instructor.

HSA 6185 Health Services Organlzation and Management I (3). This is the anchoring course for examining each specialized study of the management functions in theory and in practice as they apply to health care organizations of both public and private sectors. Corequisite: HSA 3930.

HSA 6186 Health Services Organization and Management II (3). General theories of organizational behavior and executive functions are examined in their application to hospitals and other health agencies. Prerequisite: HSA 6185 or Permission of Instructor.

HSA 6195 Quantitative Managerial and Applied Research Methods (3). Surveys the operation's research tools and techniques used in health care organizations to solve operational and control problems that impact on efficiency, effectiveness, productivity, technological change, innovation, retrofitting. Prerequisite: Permission of the instructor.

HSA 6197 Design and Management of Health Information Systems (3). The development and management of health information systems to support managerial decision-making. Emphasis is on the integration of clinical, personnel, and financial data.

HSA 6205 Hospital and Health Facilities Organization (3). Admin-

istrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. Prerequisites: HSA 5125, HSA 6185 or Permission of the instructor.

HSA 6215 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMO's) and other group medical practices operating under various financial arrangements, including prepayment. Prerequisite: HSA 5125, HSA 6185, or Permission of the instructor.

HSA 6245 Mental Health Administration and Planning (3). Psychiatric and mental illness institutions are examined in terms of specialized organizations and administrative knowledge required for the operation of these types of health care facilities and their particular patient populations. Prerequisite: Permission of the instructor.

HSA 6415 Managerial Applications of the Social Determinants of Health (3). Social, psychological, and cultural determinants of health and their impact on health behavior and utilization are examined. Implications explored for managerial decision-making and health policy. Prerequisite: Computer Skills.

HSA 6426 Health Law and Legal Aspects of Management (3). The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisite: HSA 6185 or Permission of the instructor.

HSA 6717 Advanced Health Services Management and Research Seminar (2). Integrates the theoretical and practical knowledge of other courses and activities in the curriculum. Selected case studies and relevant research provide the substantives framework for seminar analysis of issues and policy questions. Prerequisite: Completion of all other course work or permission of the instructor.

HSA 6756 Applied Programs Development and Evaluation Methods in Health Services (3). Program evaluation as part of on-going assessment of

effectiveness and resource consumption (costs). Evaluation models and study design are analyzed. Grant proposal writing is emphasized. Prerequisite: URS 6155 and HSA 6415.

HSA 6875 Administrative Residency (2-6). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisite: HSA 6930 and Approval of the coordinator.

HSA 6905 Graduate Independent Study (1-6). This course is designed to allow students an opportunity for indepth literature research or an actionoriented project carried out under the supervision of their faculty advisor. Perreequisite: Permission of faculty advisor.

HSA 6930 Professional Seminar in Health Services Management (1). A professional seminar to provide career development skills in preparation for residency or master's project. Prerequisite: Corequisite: HAS 6185 or completed 36 credit hours in program.

HSA 6977 Masters Research Project (2-6). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: HSA 6930 and Permission of advisor.

URS 6130 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how that manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations.

URS 6155 Applied Statistics for Urban Services (3). A broad-gauged introduction to statistical and forecasting tools appropriate for public, non-profit, and health care professionals. Course work will stress applications over derivation, with attention paid to how quantitative methods are inte-grated into organizational analysis and policy

making. Prerequisites: PAD 5716 or equivalent.

URS 6654 Applied Organization
Theory and Behavior (3). This course
provides an overview of organization
theory and organization behavior.
Emphasis is on contemporary approaches to improving the overall
effectiveness of public and health care
organizations.

PAD 6053

Political, Social and

Public Administration

Ronald M. Berkman, Professor and Dean

Harvey Averch, Professor

Fred Becker, Associate Professor, Coordinator

James Carroll, Professor Howard Frank, Associate Professor Jean-Claude Garcia-Zamor, Professor

Ralph Lewis, Associate Professor Valerie Patterson, Visiting Assistant Professor

Lourdes Rassi, Associate Director Keith Revell. Associate Professor. Allan Rosenbaum, Professor

Master of Public Administration

The Master of Public Administration prepares students for careers in public service and non-profit organizations. It also prepares students for private sector positions having significant contact with public organizations. The degree provides pre-service and mid-career students with an appropriate mix of technical and generalist skills needed for management and analytic positions in local, state, and federal government, as well as non-profit organizations. Students are given a broad-gauged exposure to the field in the core and subsequently develop expertise within their areas of specialization. The degree also provides students with the necessary analytic and substantive background for successful pursuit of doctoral studies within the discipline. Graduates are well-prepared for positions as city manager, finance director, budget analyst, personnel director, special project coordinator and program analyst.

The MPA Program in Public Administration is accredited by the National Association of Schools of Public Affairs and Administration. Accreditation by this agency ensures the student that the program has been reviewed and meets the national standards for graduate studies in the

Admission Requirements

Applicants to the Master of Public Administration (MPA) program must:

- Have earned a bachelor's degree from an accredited institution and
- Earn a GPA of 3.0 or better in all upper division course work and

Obtain a letter of recommendation from a faculty member at their undergraduate institution or from a professional and

Demonstrate graduate level writing competency by submitting an essay between 3 and 5 pages in length addressing personal and career goals.

An applicant who feels that the earned GPA is not indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Exam (GRE) which will be taken into consideration by the admissions committee in its evaluation of the application.

Exceptions to the graduate admissions requirement

The MPA program offers certificate programs. In accordance with University policy, students with a bachelor's degree from an accredited institution and who have an undergraduate GPA of 2.75 or greater can be admitted to a public administration graduate certificate program, subject to the approval of the MPA program coordinator. Students applying for MPA certificate programs must also obtain a letter of recommendation from a faculty member at their undergraduate institution or from a professional and demonstrate graduate level writing competency by submitting an essay between 3 and 5 pages in length addressing personal and career goals. Students admitted to a certificate program who have completed 12 Graduate Certificate credits with a 3.25 or better GPA may be admitted to the MPA program without taking the GRE, subject to the approval of the MPA program coordinator. The full 18 credits obtained in a MPA Graduate Certificate Program may be used to satisfy requirements of the MPA degree provided the student is admitted to the MPA program prior to the completion of the final six Graduate Certificate credit hours required to obtain the certificate.

Degree Requirements

The Master of Public Administration (MPA) program requires a minimum of 39 credit hours for students having a BPA or BA in a social science or for those with five years experience in management. 42 credit hours for all others (see PAD 6053 below).

Core Courses

The MPA core consists of the following eleven courses:

Economic Context of Public Administration 3 (Required only for those students not holding a BPA or BA in a social science or those without five years of managmenet experience.) PAD 6056 The Practice of Public Management PAD 6227 Public Finance and the **Budgetary Process** Professionalism and **URS 6436** Ethics 3 Human Resource Policy **URS 6130** and Management URS 6028 Policy Analysis and Planning 3 URS 6155 **Ouantitative Methods** and Analysis 3 URS 6654 Applied Organization Theory and Behavior

URS 6378 Leadership and Decision-making 3 **URS 6806** Applied Research and Evaluation Techniques 3 PAD 7607 Legal Context of Public Administration

PAD 6053, URS 6155, and URS 6806, must be taken during the first 18 credit hours of course work. Students who cannot demonstrate basic computer literacy must take PAD 5716 or its equivalent. Management Support Systems in Public Organizations, prior to enrolling for URS 6155. This course will not count toward completion of required degree credit hours (42 or 39, respectively). URS 6155 is a prerequisite for URS 6806.

PAD 6056, The Practice of Public Management, is a capstone experience for the program and must be taken during the last semester of course work.

Grading, Sequencing, and Substitution Policy

Students must maintain a 3.0 GPA to graduate. A grade of 'C' or better is required for every core course. Note: A 'C-' is not acceptable.

The Program reserves the right to withhold the awarding of credit for course work taken out of sequence and without appropriate prerequisites.

Any core course with the exception of PAD 6056 may be waived through petition to the Program Director and MPA Coordinator. The petitioner must demonstrate the equivalence of the previous course work, and prove that their performance met or exceeded core requirements.

Students entering the MPA Program with a Bachelor of Public Administration or equivalent degree may elect to substitute a fifth specialization course or other elective, for PAD 6053. Students who enroll for PAD 5716, Management Support Systems in Public Organizations, may count this towards their area of specialization.

Electives

Three (3) elective courses required.

Doctor of Philosophy

The Doctor of Philosophy in Public Administration (Ph.D.) is designed to prepare students for senior level positions in public, nonprofit, and health organizations, and to engage in research for academic or other policy analytic positions. The degree provides a sound foundation in current administrative practice in public administration and its cognate disciplines within the School of Policy and Management. Doctoral students will be expected to demonstrate significant research capacity in these disciplines, through the writing of a dissertation.

Admission Requirements

Generally, applicants must have a Master's degree prior to program enrollment, though outstanding applicants may also be considered with only a baccalaureate degree. Admission is not restricted to students with prior course work in Public Administration and the Program encourages applicants with diverse academic backgrounds.

Admission into the Ph.D. program will be granted to students of superior ability who have demonstrated a record of previous academic success, good potential for continued success in doctoral studies, and a desire to prepare for a career in which scholarship, research, and analysis are major elements. To document these qualities applicants must complete a University application form and submit a written personal statement concerning the reasons for pursuing a Ph.D. in Public Administration, a current resume, official GRE test scores, official transcripts of previous college course work, three recommendations using the Program's recommendation form, and samples of written work. Applicants who reside within a 50 mile radius of Miami must interview with Ph.D. Program Faculty. All students are encouraged to speak with the Ph.D. Coordinator prior to submitting an application.

Generally, an applicant is expected to have, at minimum, a GPA of 3.5 or

better for all graduate course work and a combined score of 1050 on the GRE quantitative and verbal sections, with a minimum of 500 on each of these components. Students whose language of nurture is not English must achieve a minimum of 600 on the Test of English as a Foreign Language (TOEFL). Students must also demonstrate knowledge of American political institutions and fundamentals of social research methods and microcomputers. The admission process is competitive and the Program considers all of the evidence in the application file in making its decision. Meeting the minimum requirements does not guarantee admission and applicants failing to meet the minimum requirements may be admitted based on other evidence of potential.

Admitted students may transfer a maximum of six semester credits (not included in another degree) from other institutions toward Ph.D. degree requirements. Admitted students must demonstrate competence in inferential and descriptive statistics regression, applied microeconomics and policy analysis, organization theory and design, social science research methods, personnel and workplace issues, and microcomputer literacy, or take remedial courses in these areas prior to core course work. All incoming Ph.D. students who have not taken Master's level research methods and quantitative skills classes within three years of admission will be given a diagnostic examination in these areas. Students with identified deficiencies will be assigned remedial work specified by the Program.

Financial Aid

The objective of financial aid is to provide direct assistance to those students who require financial assistance to complete their doctoral programs, and to enhance the reputation of the program by attracting an outstanding eadre of students.

To receive financial aid from University and Program sources, doctoral students must be enrolled full-time (9 semester hours during the term in which they receive financial aid). Program assistance is reserved for students with no outside employment.

The exact amount of financial assistance depends upon funding provided by the University and the legislature. The current level of Program assistance is between \$9,000 and \$16,000 annually. Students on

assistantships are eligible for matriculation fee waivers paying the bulk of the tuition.

Program financial aid is awarded in one-year blocks, and is generally provided for up to three years of the student's doctoral study. Non-resident applicants may also apply for waiver of out-of-state tuition by contacting the Program at the time of admission.

The University has a variety of other financial aid opportunities including graduate grants (currently \$800 per semester for in-state students and \$1500 per semester for non-residents), scholarships, loans, work-study programs and targeted scholarships. Information on these and other opportunities are available through the University and College financial aid offices.

To apply for assistance, students should notify the Ph.D Coordinator of their intent at the time of application. For matriculation fee waivers and University assistance, students must file the University's Financial Aid Form (FAF) and the other University aid documents. Information on the university procedures is available in the financial aid office of the College of Health and Urban Affairs and in the University's Financial Aid office.

Degree Requirements

To obtain the degree, admitted students must complete at least 69 semester hours beyond the Master's degree, or its equivalent, including 45 semester hours of approved course work and 24 hours of dissertation work after admission to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment in the Ph.D core curriculum, and a minimum of six hours required in all subsequent semesters, as set forth in the Doctoral Program in Public Administration Handbook.

Successful completion of course work and passing scores on the comprehensive examination are required before students can advance to candidacy for the Ph.D and present a dissertation proposal. Students are advised to consult the doctoral program handbook for any additional information regarding benchmarks for student progress in grade point average, course completion, comprehensive examinations and dissertation work.

Program of Study

The Doctor of Philosophy in Public Administration is a 69 semester hour program with eight required courses (24 semester hours); two additional research tools electives (six semester hours); five courses within the student's specialization (15 semester hours); and Dissertation (24 semester hours).

During the first semester of the program, students are required to select, with the assistance and approval of the Ph.D. Coordinator, an advisor who is a tenured faculty member in the program. By the end of the first year, students are required to develop a program of study with the assistance and approval of their advisor and the Program Director.

Core	Curr	icu	lum:	(24)
------	------	-----	------	------

PAD 7026	Proseminar in Public Administration and	
	Policy	3
PAF 7002*	Foundations of Policy	
	Analysis	3
URS 7154	Applied Research	
	Methods	3
URS 7644*	Managing Public	
	Financial Resources	3
URS 7655*	Evaluating	
	Organizational and	
	Program Performance	3
URS 7926	Supervised Readings	3
PAD 6836	International Public	
	Administration	3
PAD 6807	Urban and Municipal	
	Government	

NOTES: URS 7926, Supervised Readings, is required to be taken in conjunction with URS 7154, Applied Research Methods, during the last semester of course work prior to sitting for the comprehensive examination.

Administration

*These courses are cross-listed. Ph.D. students enrolled in the 7000 level classes will receive additional classroom assignments.

Research Tools Courses: (6)

Students must complete at least six hours of research tools course work, three hours of which must be PAD 7705 or equivalent course deemed appropriate by the student's advisor with the approval of the Ph.D. committee. The additional three-hour course also must be approved by the student's advisor and the Ph.D. committee.

Specialization Courses: (12)

Students are required to take five courses in an area of specialization to be designed with the advisor. Three of these courses must be 5000, 6000, or 7000 level courses to be taken within the University, or be especially designed courses developed conjunction with the student's advisor, with approval by the Ph.D. committee. Specialization areas can include subfields within the discipline of public administration (human resource management; sub national administration and policy, etc.) or may involve cognate disciplines (such as health services administration; criminal justice administration; environmental management: etc.)

In developing a specialization area, the student is expected to consult with his or her advisor (from within the public administration faculty). If students choose a specialization from a cognate area, they should, in conjunction with their public administration faculty advisor, identify a faculty member from the cognate discipline who will serve as the specialization faculty advisor. The specialization advisor, may also, upon approval of the Ph.D. committee, serve as the chairperson of the student's dissertation committee.

18 and 36 Credit Hour Review

The student's performance will be carefully monitored at 18 and 36 credit hours, respectively, after full admission to the Program. The Public Administration Doctoral Handbook establishes guidelines and criteria to be employed for the review. Less than satisfactory reviews may result in modified Programs of Study due to remedial course work, or dismissal from the Program.

Students may develop their own specialization in areas of their choice relevant to Public Administration and Public Policy, such as Health Services Administration, Environmental Policy, Urban Planning, etc. All specializations are developed after consultation with and upon approval of the advisor and program director.

Comprehensive Examination

After the completion of all course work, students will be given a written examination, testing their knowledge of Public Administration and Policy Analysis and their specialization. Upon passing the components of the comprehensive examination, the

student may apply for advancement to candidacy for the Ph.D.

Students who fail the Comprehensive Examination on the first attempt must retake the examination at its next offering. Students who fail the examination twice are automatically dismissed in accord with general University policy.

Dissertation: (24)

Upon successful completion of the comprehensive examination, students select their dissertation guidance committee and begin preparation of their dissertation proposal. Students are expected to defend their dissertation prospectus before the end of the first semester subsequent to passing the Comprehensive Examination.

Upon the public defense and approval of the proposal, the student will initiate formal work on the dissertation. During this time, the student is expected to make appropriate progress toward completing the dissertation, and to enroll continually (at least six credits per semester) until the degree is completed. Upon completion of the dissertation, candidates will formally defend the research at a meeting conducted by the Dissertation Committee. The degree will be awarded upon a positive recommendation of the Committee and compliance with all policies and procedures required by the University.

Award of Master's Degree to Ph.D. Candidates. Under certain circumstances, individuals directly admitted into the Ph.D. program following completion of their bachelor's degree, may be awarded a master's degree in public administration. In order to be eligible, a student will need to complete 42 credits in the master's program. Upon certification by the student's advisor that this requirement has been met, the Ph.D. committee will approve the award of the master's degree.

Certificates

The Program offers certificates in Human Resource Policy and Mangement, International Comparative Development Administration, and Public Management. Please refer to the Certificate section under the College for detailed information.

Juris Doctor/Master of Public Administration Joint Degree Program

The faculties of the College of Law and the School of Policy and Management at Florida International University have approved a joint degree program culminating in both a Juris Doctor degree (J.D.), awarded by the College of Law, and a Master of Public (M.P.A.), Administration degree awarded by the School of Policy and Management. Under the joint degree program, a student can obtain both degrees in significantly less time than it would be to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree program are as follows:

I. Candidates for the program must meet the entrance requirements for and be accepted by both programs. Both programs must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.

2. The joint degree program is not open to students who have already

earned one degree.

- 3. For law students, enrollment in the M.P.A. program is required no later than the completion of 63 credit hours in the J.D. program. For M.P.A. students, enrollment in the J.D. program is required no later than the third semester after beginning the M.P.A. program. For pruposes of this paragraph, a summer session is counted as half a semester.
- 4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The School of Policy and Management will allow 9 credit hours of College of Law courses, as approved by the M.P.A. Coordinator, in consultation with the Director of the School of Policy and Management, to be credited toward both the M.P.A. and J.D. degrees. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.P.A. curriculum upon completion of the M.P.A. degree with a grade point average of 3.0 or higher.
- 5. A student accepted by both degree programs may begin studies in either the College of Law or the School of Policy and Management, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students electing to begin study in one school under the joint degree program may enter the second school thereafter without once again qualifying for

admission so long as they have notified the second school before the end of the first week of the first semester in the second school and are in good academic standing when studies commence in the second school.

- 6. A student enrolled in the joint degree program will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.
- 7. Students in the joint degree program will be eligible for the graduate teaching assistantships and research assistantships in the School of Policy and Management on the same basis as other M.P.A. students, subject to the guidelines and restrictions set by the School of Policy and Management.
- 8. The joint degree program began with the 2002-2003 academic year.

Course Descriptions Definition of Prefixes

CGS-Computer General Systems; MAN- Management; PAD-Public Administration; PAF-Public Affiars; PUP-Public Policy; URS-Urban and Regional Studies.

CGS 6301/MAN 6830 Management Information Systems (3). Introduction to the application of computers to information processing problems in organizations. This includes a survey of the basic computer hardware and software concepts necessary for users to work with information processing personnel. The rudiments of a computer programming language will be taught, and applied to data processing problems. Consideration will also be given to the managerial aspects of information systems planning and development.

PAD 5041 Values and Technology in Modern Society (3). Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

PAD 5043 Government and Minority Group Relations (3). Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

PAD 5256 Public Economics and Cost Benefit Analysis (3). This course provides the quantitative and qualitative tools and case material to solve allocation problems in the public sector. Applied microeconomic theory, welfare economics, and market and government failure are analyzed as are the public alternatives available. Benefit-cost analysis, the ethics of applied practice, and the important skills of communicating with decision makers are taught.

PAD 5416 Social Equity and Human Resource Management (3). The course deals with the human resource management issues arising from equity and affirmative action requirements in the workplace.

PAD 5427 Collective Bargaining in the Public Sector (3). The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

PAD 5435 Administration and the Role of Women (3). The course is designed for women and men who are interested in moving into management positions, or who have done so and want to broaden their understanding of the changing role of women. Classes will allow for experimental as well as academic exploration of the issues. The course will also explore design, implementation, and evaluation of affirmative action programs.

PAD 5443 The Public Administrator and Media Relations (3). Surveys the government-mass communication media relationship, and then concentrates on the ways in which public managers handle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

PAD 5460 Productivity Improvement (3). Provides measures to improve organizational and worker productivity using applied behavioral science.

PAD 5616 Contracting and Managing Third Party Governments (3). Analyzes the legal foundations, administrative and economic characteristics of government instrumentalities as they are used to pursue public policy. Analyzes how and why different combinations of instrumentalities are used in different policy areas.

PAD 5660C Applied Legal Context of Public Administrators (3). An overview of constraints and latitude the legal system grants to public administrators and managers. Provides the applied legal information required to make effective decisions in the public sector.

PAD 5661C Management of Court-Agency Relations (3). Examines applied judicial-administrative relations with particular emphasis on administrative policymaking. Covers the legal, environmental, and political factors that influence administrative strategies of policy and program compliance.

PAD 5716 Management Support Systems in Public Organizations (3). The course examines a variety of computer-based management support applications used in public sector organizations. It also explores design and implementation issues endemic to the public sector.

PAD 5934 Contemporary Issues in Public Administration (3). An analysis of major conceptual issues currently facing public administrators. May be repeated.

PAD 6042 Democracy and the Administrative State (3). Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy - in practice as well as in theory - will be analyzed, and their implications for public organizations and individual administrators examined.

PAD 6053 Political, Social and Economic Context of Public Administration (3). Examines the context in which public organizations operate, stressing the relationship between such organizations and their multifaceted environment. Emphasis is on examining relevant social and cultural mores

and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous course work in analytic exercises related to students' areas of specialization. Prerequisites: Completion of MPA Core; last semester of course work status.

PAD 6106 Organization Theory and Administrative Behavior (3). Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6224 Advanced Seminar In Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and appropriate methodological design for addressing them. Perequisites: 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 adminstrative processes of control, manageent and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and

problems and trends in intergovernmental financial relations.

PAD 6229 Advanced Management Techniques (3). Explores quantitative revenue and expenditure models and other techniques which address public sector decision making under conditions of resource constraint. Prerequisites: PAD 5256, PAD 6205 or Permission of the instructor.

PAD 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6015. (S)

PAD 6437 Dynamics of Individual Growth (3). This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student; and will look at existential theory and the dilemma of personal growth.

PAD 6605 Administrative Law and Procedures (3). Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balances system; discretionary justice; and others.

PAD 6715 Public Monitoring Systems for Government Organizations (3). Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

PAD 6807 Urban and Municipal Government Administration (3). Detailed examination of problems facing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities. Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.)

PAD 6816 Regional and State Government Administration (3). Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policymaking.

PAD 6836 International Public Administration (3). The role of public administration systems around the world; and the impact of political and socio-cultural frameworks on administration. Focus on national and state organizations' politics, economics, problems, and possibilities. A review of scope and programs of contem-porary international public adminis-tration organizations. Prerequisite: PAD 5256.

PAD 6838 Development Administration (3). The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

PAD 6839 Comparative Public Policy (3). This course addresses policy formulation and implementation as a general process of administrative action that can be investigated among the varying nation-states. It covers the differences in policy and explores patterns implicit in those differences. Prerequisite: PAD 6836 or PAD 6838.

PAD 6907 Independent Study In Public Administration (1-6). (Normally 3 credit hours) Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6915 Independent Research In Public Administration (1-6). (Normally 3 credit hours) An individualized research project and report which, if feasible, should include field work with a public organization. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6946 Public Administration Internship (1-6), (Normally 3 credit hours) Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. Consent of faculty advisor and Program Director required.

PAD 7026 Proseminar in Public Administration and Policy (3). An intensive introduction to American Public Administration and Public Policy making and implementation by "The Fourth Branch" of government.

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 Emplrical 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 multivariative statistical and quantitative models to the field of public administration. Prerequisite: URS 6155.

PAD 7707 Advanced Applied Research Methods (4). This course will provide students with an increased understanding of concepts of research methods through applied research projects related to public policy and public administration. Prerequisites: URS 6155 and URS 6806.

PAD 7913 Comprehensive Examination in Public Administration (1-6). An in-depth review of the Public Administration knowledge base taken prior to sitting for the comprehensive examinations. May be repeated for credit. Prerequisite: Completion of Program of Studies.

PAD 7960 Comprehensive Examination in Public Administration (3). Intensive preparation for the comprehensive examinations in Public Administration in both the core and areas of specialization. Students may repeat for credit. Prerequisite: Completion of program of studies.

PAD 7980 Ph.D. Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in public administration. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

PAF 6XXXC Foundations of Policy Analysis (3). Intensive exploration of models, theories, and designs applied to quantitative and qualitative methods of public policy analysis. Instruction and case studies cover a wide range of normative and policy issues. Prerequisite: URS 6028, PAD 6053.

PAF 7002 Foundations of Policy Analysis (3). Intensive exploration of models, theories, and designs applied to quantitative and qualitative methods of public policy analysis. Instruction and case studies cover a wide range of normative and policy issues. Prerequisite: URS 6028, PAD 5256, and PAD 6053.

PUP 6006 Public Policy Analysis and Evaluation (3). A framework for evaluating public policy- making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

PUP 6015 Public Policy (3). An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, etc.) are examined.

URP 5314 Introduction to Urban Planning and Growth Management (3). An historic overview of land use planning and the rise of growth management with emphasis on implementation in complex market and political environments.

URP 5426 Emergency Management and Planning (3). This course focuses on the concepts, processes, and techniques associated with developing and implementing emergency management plans in public, nonprofit, and health organizations.

URS 5505 Economic Development and Urban Revitalization (3). This course is an interdisciplinary examnation of research and practice in contemporary economic development, with emphasis on successful impleentation in a variety of settings.

URS 5645 Strategic Planning in Public and Non-Profit Organizations (3). This course exposes students to the concepts associated with strategic planning of public and nonprofit organizations and provides them with practical experience in their use.

URS 5647 Continuous Quality Improvement (3). This course provides an in-depth exposure to the concepts, principles, and techniques associated with continuous quality improvement (CQI) applied to public, nonprofit, and health organizations.

URS 6028 Policy Analysis and Program Planning (3). This course presents techniques and tools for the practice of policy analysis in public, nonprofit, and health organizations, with emphasis on constructing policy analysis useful to decisionmakers. Prerequisites: PAD 5256, and URS 6155 or equivalent.

URS 6130 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how the manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations.

URS 6155 Quantitative Methods for Policy & Management (3). An intensive introduction to statistical and forecasting tools appropriate for public, nonprofit, and health professionals. Prerequisites: URS 4112 or equivalent.

URS 6158 GIS Applications for Urban Management (3). Geographic Information System Applications for Urban decision makers and social sciences. Prerequisite: URS 4112 or equivalent.

URS 6378 Leadership and Decisionmaking (3). Readings and case studies examine how effective leaders in the public and non-profit sectors make decisions in fluid and challenging environments.

URS 6436 Professionalism and Ethics (3). Examines behavioral ap-proaches toward understanding the personal world of public managers with emphasis on knowledge, skills, and abilities which aid effective goal accomplishment.

URS 6654 Applied Organization Theory and Behavior. (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.)

URS 6806 Applied Research and Evaluation Techniques (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contem-porary critiques on research design. Prerequisite: URS 6155.

URS 6XXXC Managing Public Financial Resources (3). An integrative seminar treating taxation, public budgeting, debt management and evaluation, in the context of a globally competitive economy. Prerequisite: PAD 6227.

URS 6XXXC Evaluating Organizational and Program Performance (3). Methodology and conceptual frameworks needed to augment organizational effectiveness while enhancing the accountability of public, health, and nonprofit organizations.

URS 7031 Information and Telecomunications Design and Policy (3). The managerial and public policy implications of innovations in the 'information super highway'; establishment of intra and interorganization capacity for dealing with continued development in the field. Prerequisites: Ph.D. status or Permission of the instructor.

URS 7156 Research Practicum (6). An integrative studio course intended to produce a defensible dissertation prospectus and significant empirical research project; may be repeated for credit. Prerequisites: Completion of Ph.D. tool requirement, and URS 7157.

URS 7157 Applied Research Methods (3). Extensive exploration of designs utilized in contemporary social and policy science research with emphasis on triangulated models. Prerequisites: Completion of tools requirement in program of studies or Permission of the instructor.

URS 7379 Leadership Development and Decision-Making (3). Leadership as the focal point for organizational development, resource allocation, and 'fit' within the environment; emphasis on effective leadership in the public, health, and nonprofit sectors. Prerequisites: Ph.D. status or Permission of the instructor.

URS 7380 Contemporary Management Issues and Problems (3). A proseminar on workplace issues such as AIDS, the Americans with Disability act, and 'the Glass Ceiling'. Special emphasis on diversity and increased utilization of contractual employees. Percequisites: Ph.D. status or Permission of the instructor.

URS 7644 Managing Public Financial Resources (3). An integrative seminar treating taxation, public budgeting, debt management, and evaluation, in the context of a globally competitive economy. Prerequisites: Ph.D. status or Permission of the instructor.

URS 7655 Evaluating Organizational and Program Performance (3). Methodology and conceptual frameorks needed to augment organizational

effectiveness while enhancing the accountability of public, health, and nonprofit organizations. Prerequisites: Ph.D. or Permission of the instructor.

URS 7926 Supervised Readings (3). Extensive reading and review in area of concentration taken in preparation for comprehensive examinations; supervised by Chair of Program Advisory Committee, may be repeated for credit. Corequisite: URS 7156.

School of Social Work

Ray J. Thomlison, Professor and Director

Mary Helen Hayden, Assistant Professor and Associate Director, Academic Programs

Welker Mitchell, Instructor and Associate Director, Administration

Richard Beaulaurier, Associate

Arlene Brown, Instructor and Field Practicum and Broward Coordinator

David Cohen, Professor Mario De La Rosa, Associate

Professor

Catherine de Leon, Student Services Coordinator

Marlan Dumaine, Instructor and Field Practicum Coordinator

Andres Gil, Associate Professor and Associate Director for Research

Rosa Joues, Associate Professor and Vice President of Academic Affairs Mark Macgowan, Assistant Professor Miriam Potocky-Tripodi, Associate Professor

Chris Rice, Assistant Professor Estela Rodriguez, Visiting Instructor Florence Safford, Professor Emeritus

Betsy Smith, Associate Professor
Barbara Thomlison, Professor and
Acting Director, Institute for
Children and Families at Risk

Children and Families at Risk
Nan Van Den Bergh, Associate
Professor

Eric F. Waguer, Associate Professor and Director, Teen Intervention Project

Stephen E. Wong, Associate Professor

The School of Social Work offers graduate and undergraduate studies leading to the Master of Social Work and Bachelor of Science in Social Work degrees. The School also offers a Ph.D. in Social Welfare.

The profession of Social Work requires a high degree of knowledge and dedication. The desire and ability to work effectively with people and to help solve social problems demands a scientific understanding of society and human behavior, skills in social work practice, and identification with the values of the profession.

Master of Social Work

The School of Social Work, at Florida International University, offers an integrated program that leads to the Master of Social Work (MSW) degree. The program is designed to give the student professional education for the advanced practice of social work. The curriculum applies a bio-psycho-social model within the context of a social systems framework to understand client systems, address problems and develop interventions.

All students will be required to acquire or to possess the common base in the areas of professional study considered essential in social work education: human behavior and the social environment, social welfare policies and services, research, and social work practice. The knowledge acquired in the professional courses will be applied in supervised field experiences in social agencies.

The program offers a concentration in advanced clinical practice and students complete a field practicum program that supports practice in that concentration. With the help of faculty, students will develop individualized programs in the concentration to meet their educational needs and contribute to their professional objectives. The program provides a curriculum which meets the current educational requirements for clinical licensure in Florida.

For additional information regarding the graduate social work program of study and degree requirements, contact the School of Social Work directly at (305) 348-5880.

The Master of Social Work Program at Florida International University is accredited by the Council on Social Work Education.

Admission Requirements

Applicants to the graduate program are required to meet the minimum standards set forth by the Florida Department of Education and the graduate social work program. This includes at least a 3.0 average in all upper-level division work. The GRE is no longer required. Application procedures for admission to graduate study are found in the current university catalog. An application to the University, an application to the Social Work graduate program, a personal narrative, and three letters of reference are required for admission. A personal interview may be requested. All applicants should have had college-level courses in biology (including coverage of Human Biology) and statistics and 12 semester hours in the social and behavioral sciences.

Applicants with a B.S.W. degree from a program accredited by the Council on Social Work Education will be considered for admission to Advanced Standing. The applicant must have received his/her BSW degree within the last five years, in order to be considered for Advanced Standing. Applicants for the Advanced Standing program will not be awarded any transfer credit, substitutions, or exemptions. Advanced Standing is not automatically granted.

In addition to the College and University policies governing transfer credit the following regulations apply:

1. Courses taken in a Master of Social Work program, accredited by the Council on Social Work Education, in which the applicant was fully admitted, may be transferred up to a maximum of 30 semester hours.

2. Graduate courses taken in other than CSWE accredited Social Work programs and that were not used to satisfy the requirements of another degree, may be transferred up to a maximum of 6 semester hours.

Students in the Advanced Standing Program will not be awarded transfer credits.

4. Required concentration courses (6000 level) are not transferable.

Degree Requirements

The Master of Social Work program is a 60 semester hour program composed of a 30 semester hour foundation followed by 30 semester hours of concentration courses in the second year. The Advanced Standing Master of Social Work is composed of 30 semester hours of concentration courses.

An overall GPA of 3.0 is required for graduation. Any required course in which a student receives a grade lower than 'B' must be retaken. (A grade of 'B-' is not acceptable.) However, a grade of 'B-' in an elective does not have to be retaken. A passing grade in field practicum courses is required for continuation in the program. Field courses cannot be repeated.

A student must successfully complete all work applicable to the Master of Social Work program within 48 months from initial admission. In unusual circumstances, and if the reasons warrant it, a student may petition the School Director for an extension of the time limit

388	Colle	ge of Health and Urban	Affa
		First Year	
		urses: (30)	
sow	5105	Human Behavior and the	
		Social Environment I	3
sow	5235	Social Welfare Policy an	d
		Services I	3
sow	5324	Theory and Practice with	ı
		Groups	3
SOW	5342	Social Work Practice	
		with Individuals	
		and Families	3
sow	5344	Theory and Practice with	ı
		Communities and	
		Organizations	3
sow	5404	Social Work Research	
		Methodology	3
sow	5532	Clinical Practicum I	6
sow	5629	Social Work Practice	
		with Diverse	
		Populations	3
sow	xxxx	Direct Social Work	-
		Practice Elective	3
Stude	nte are	required to complete a	11
		Year Courses and be full	
		fore enrolling into any	
		el Concentration courses.	,,
		ar/Advanced Standing	
		ion (Advanced Clinica	1
Prac	tice) R	equirements: (30)	
sow	5125	Human Behavior & the	
		Social Environment II -	
		Psychopathology	3
sow	6236	Social Welfare Policy an	d
		Services II	3
sow	635 I	Clinical Intervention in	
		Couple and Family Socia	al
		Work Practice	3
SOW	6435	Evaluating Empirically	
		Based Social Work	
		Practice	3
SOW	6655	Clinical Interventions in	
		Child & Adolescent	

	Work Practice	3
SOW 6435	Evaluating Empirically	
	Based Social Work	
	Practice	3
SOW 6655	Clinical Interventions in	
	Child & Adolescent	
	Social Work Practice	3
SOW 6533	Clinical Practicum II	3
	and	
SOW 6534	Clinical Practicum III	6
	or	
SOW 6535	Clinical Practicum -	
	Block	9
SOW xxxx	Direct Social Work	
	Practice Elective	6

Graduate Certificate in Addictions

This graduate certificate provides specialized advanced clinical training for social work students and professional working in the addictions field. It will meet all of the classroom educational requirements laid out by the State of Florida for certification through the Florida Certification Board.

	its: (30 credits)	
SOW 5105	Human Behavior and the Social Environment I or	
	BSSW equivalent	3
SOW 5125	Human Behavior and the	
	Social Environment II -	
	Psychopathology	3
SOW 5324	Theory and Practice with	
	Groups or BSSW	
	equivalent	3
SOW 5342	Social Work Practice	
	with Individuals &	
	Families or BSSW	
	equivalent	3
SOW 5629	Social Work Practice	
	with Diverse Populations	3
SOW 6351	or BSSW equivalent Clinical Intervention in	3
SOW 0331	Couple and Family Social	
	Work Practice	3
SOW 6435	Evaluating Empirically	_
5011 0455	Based Social Work	
	Practice	3
SOW 5710	Current Issues in	
	Addiction Practices	3
SOW 6114C	Assessment & Treatment	
	of Addiction & Related	
	Problems	3
SOW 6711.	Prevention of Addiction	
	& Related Problems	3
	ac related 1 footens	,
Graduate		,
	Certificate in ent in Social Work	J
	Certificate in ent in Social Work	
Manageme This gradua	Certificate in ent in Social Work	s
Manageme This gradus specialized	Certificate in ent in Social Work ate certificate provide:	s r
Manageme This gradus specialized social work planning to e	Certificate in ent in Social Work at certificate provide management training for students and professional other or work in manageria	s r
Manageme This gradus specialized social work planning to e	Certificate in ent in Social Work ate certificate provides management training for students and professionals	s r
Manageme This gradus specialized social work planning to e positions in the	Certificate in ent in Social Work at certificate provide management training for students and professional other or work in manageria	s r
Manageme This gradus specialized social work planning to e positions in the Requirement Required:	Certificate in ent in Social Work ate certificate provide management training fo students and professional inter or work in manageria te social work field. ats: (15 credits)	s r
Manageme This gradus specialized social work planning to e positions in the Requirement	Certificate in ent in Social Work ate certificate provide management training fo students and professionals in manageria are social work field. Theory & Practice with	s r
Manageme This gradus specialized social work planning to e positions in the Requirement Required:	Certificate in ent in Social Work at certificate provide management training fo students and professional anter or work in manageria are social work field. ats: (15 credits) Theory & Practice with Communities &	s r s l
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344	Certificate in ent in Social Work ate certificate provide: management training fo students and professionals inter or work in manageria ate social work field. hts: (15 credits) Theory & Practice with Communities & Organizations	s r
Manageme This gradus specialized social work planning to e positions in the Requirement Required:	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. Theory & Practice with Communities & Organizations Applied Organizational	ss r ss 11
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344	Certificate in ent in Social Work ate certificate provides management training fo students and professionals net or work in manageria net social work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior	s r s l
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344	Certificate in ent in Social Work at a certificate provide management training fo students and professional anter or work in manageria are social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing	ss r ss 11
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service	ss r r ss 1 3 3 3
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344 URS 6654 SOW 5455	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs	ss r ss 11
Managemetria gradus specialized social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from	Certificate in ent in Social Work ate certificate provides management training fo students and professionals nter or work in manageria ne social work field. nts: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs the following 5:	ss r r ss 1 3 3 3
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344 URS 6654 SOW 5455	Certificate in ent in Social Work ate certificate provide: management training fo students and professionals inter or work in manageria ate social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs tuthe following 5: Public Financial	3 3
Managemetria gradus specialized social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs the following 5: Public Financial Management	ss r r ss 1 3 3 3
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205	Certificate in ent in Social Work ate certificate provide: management training fo students and professionals inter or work in manageria ate social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs tuthe following 5: Public Financial	3 3
Manageme This gradus specialized social work planning to e positions in th Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205	Certificate in ent in Social Work at certificate provides management training fo students and professionals inter or work in manageria in esocial work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs The following 5: Public Financial Management Administration & the	3 3 3
Manageme This gradus specialized social work social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205 PAD 5435	Certificate in ent in Social Work tate certificate provides management training for students and professionals inter or work in manageria the social work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs the following 5: Public Financial Management Administration & the Role of Women Mental Health Administration &	3 3 3
Manageme This gradus specialized social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205 PAD 5435 HSA 6425	Certificate in ent in Social Work at certificate provides management training footstudents and professionals interested work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs The following 5: Public Financial Management Administration & the Role of Women Mental Health Administration & Planning	3 3 3
Manageme This gradus specialized social work social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205 PAD 5435	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs Inte following 5: Public Financial Management Administration & the Role of Women Mental Health Administration & Planning Strategic Planning in	3 3 3 3
Manageme This gradus specialized social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205 PAD 5435 HSA 6425	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. ats: (15 credits) Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs the following 5: Public Financial Management Administration & the Role of Women Mental Health Administration & Planning Strategic Planning in Public & Non-Profit	3 3 3 3
Manageme This gradus specialized social work planning to e positions in the Requirement Required: SOW 5344 URS 6654 SOW 5455 Select 2 from PAD 6205 PAD 5435 HSA 6425	Certificate in ent in Social Work ate certificate provides management training for students and professionals inter or work in manageria ate social work field. Theory & Practice with Communities & Organizations Applied Organizational Theory & Behavior Writing and Managing Grants for Social Service Programs Inte following 5: Public Financial Management Administration & the Role of Women Mental Health Administration & Planning Strategic Planning in	3 3 3 3

Making

Graduate Certificate in Social Work Practice with the Elderly

This graduate certificate provides specialized advanced clinical training for social work students and professionals working with elderly populations.

Requirements: (15 credits)

Required:

SOW 5105	Human Behavior & the	
	Social Environment I or	
	BSSW equivalent	3
SOW 5125	Human Behavior & the	
	Social Environment II -	
	Psychopathology	3
SOW 5324	Theory & Practice with	
	Groups or BSSW	
	equivalent	3
Select 2 from	the following (Advanced	d

Standing Students or those with a BSSW degree must select four from the following): SOW 6646 Social Work Practice

	with the Elderly	3
SOW 6359	Social Work Treatment	
	with Families of the	
	Elderly	3
SOW 5640	Foundations in	
	Gerontology for Health	
	Professions	3
SOW 5641	Understanding the	
	Process of Aging	3
NGR 5250	Physical Change and	
	Healthy Aging	3
HSA 5226	Management of Long	
	Term Care Systems	3

Doctor of Philosophy in Social Welfare

The Doctor of Philosophy in Social Welfare (Ph.D. in Social Welfare) aims to prepare students for careers in research, university teaching, and leadership in social welfare.

The overarching emphasis in the Ph.D. program is on research to develop effective and culturally competent interventions (from direct practice to social policy) to meet the human needs of individuals, families, groups, and communities in urban settings.

In courses, seminars, and supervised study and research, students are assisted to develop and strengthen their skills in methods of scientific inquiry, to deepen their understanding and analysis of social problems and public issues, and to contribute to the knowledge base of social welfare. Students pursue a course of study focused on social problems, levels of intervention, and research methodologies related to an area of specialization of particular interest to them. While in the program, students

are expected to disseminate the results of their study and research in appropriate forums. Students are also offered opportunities to teach.

Admission Requirements

Admission to the Ph.D. program in Social Welfare will be granted to students who have been admitted to the graduate program of Florida International University. Applicants are required to submit:

i. A Master's degree in Social Work from an accredited school of social work or in a closely related field.

 Evidence of superior academic achievement in undergraduate and graduate education, including a 3.25 undergraduate GPA and a 3.5 graduate GPA.

3. A composite quantitative and verbal score of least 1120 on the Graduate Record Examination (GRE).

4. Documentation of completion of courses in statistical methods and research methodology with grades of 'B' or better.

5. Students for whom English is a second language must have a TOEFL score of 550 or higher;

Three letters of recommendation (two academic and one professional);

7. Two examples of written scholarly work:

8. A personal statement describing the applicant's research interests and career goals.

All applicants must be approved by the Doctoral Committee. Applications for Fall semester admission are due by February 15 of the year of application.

Degree Requirements

1. Completion of a minimum of 60 credits: (at least 36 credit hours of required coursework taken over the first three consecutive semesters following admission, obtaining at least a "B" grade for each course, and at least 24 dissertation credit hours following advancement to candidacy); continuous registration for at least 3 credit hours of doctoral-level credits during each semester following advancement to candidacy; maintenance of an overall cumulative grade point average (GPA) of at least 3.0;

 Filing, before the end of the fourth semester of study, three major papers, each having obtained a grade of at least "B+" from a three-member Doctoral Candidacy committee (this constitutes the Doctoral Candidacy Examination); 3. Successful approval of a Dissertation Proposal from a duly constituted Dissertation Committee:

 Completion of a dissertation under the guidance of the Dissertation Committee;
 Successful defense of the dissertation before the Dissertation Committee and the University community;

6. Obtaining the Ph.D. degree within seven years of admission into the Ph.D. program.

Program of Study

The Doctor of Philosophy in Social Welfare is a 60 semester hour program comprised of 12 required courses and 24 semester hours of dissertation study.

Course Offerings

Semester I		
SOW 7492	Theory Development and	1
	Research Methods in	
	Social Welfare	3
SOW 7406	History & Systems of	
	Social Work Research	3
IHS 6xxx	Quantitative Research	
	Methods	3
AAA xxxx	Graduate Elective or	
SOW 7916	Supervised Research	3
Semester II		
SOW 7237	Micro-Practice Theory	
	and Research	3
SOW 7xxx	Applied Statistics II	3
ANG 6497	Qualitative Research	
	Methods or	
EDF 6475	Qualitative Foundations	
	of Educational Research	3
AAA xxxx	Graduate Elective or	
SOW 7916	Supervised Research	3
Semester III		
SOW 7238	Macro-Practice Theory	
	and Research	3
SOW 7216	Social Welfare Policy	3
AAA xxxx	Graduate Elective or	
SOW 7916	Supervised Research	3
SOW 6914	Independent Research	1
Semester IV		
SOW 7936	Dissertation Seminar in	
	Social Welfare	3

Course Descriptions

Definition of Prefixes

IHS – Interdisciplinary Courses SOW - Social Work. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

IHS 6509 Quantitative Research Analysis in Health Urban Affairs 1 (3). Application of quantitative techniques used for research analysis in health and urban affairs research and practice settings. Prerequisites: STA 3145 or STA 6166 or equivalent. IHS 6XXX Qualitative Research Methods in Health and Urban Affairs (3). Critical issues, theoretical and practical applications for conducting qualitative research explored as they relate to health, social service and public administration environments. Prerequisite: Graduate Research Methods.

IHS 6XXX Quantitative Research Analysis in Health and Urban Affairs II (3). Application of quantitative techniques used for research analysis in health and urban affairs practice settings with focus on multivariate analysis. Prerequisites: STA 6167 or equivalent; IHS 6509.

SOW 5105 Human Behavior and the Social Environment 1 (3). Study of individuals and families with emphasis on the analysis of bio-psycho-socio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology (including coverage of human biology).

SOW 5109* Crises in the Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, domestic violence, rape, abortion, childbirth, sex discrimination, AIDS, climacteric, widowhood. Prerequisite: Senior or graduate standing.

SOW 5125 Human Behavior and the Social Environment II-Psychopathology (3). Study of the psychosocial aspects of client problems, including psychopathology, frequently encountered by social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5105 or advanced standing status. (S,SS)

SOW 5235 Social Welfare Policy and Services 1 (3). This course analyzes major social welfare policies and programs in the United States, their emergence, development, contemporary operations and how they shaped the development of the Social Work profession. (F)

SOW 5307* Behavior Therapy In Social Work Practice (3). Oveview of the principles, clinical foundations, and applications of socio-behavioral approaches relevant to social work practice. Emphasis on behavioral change

methods and problem solving in assessment, intervention, and evaluation.

SOW 5324 Theory and Practice With Groups (3). Study and application of biopsychosocial, cultural dimensions, theories, techniques and intervention strategies for social work group practice. Prerequisites: SOW 5342. Corequisite: SOW 5532.

SOW 5342 Social Work Practice with Individuals and Families (3). This course is an overview of social work practice with individuals and families placing emphasis on professional values, interviewing skills, assessment, intervention, and outcome evaluation, all within a cross-cultural perspective. Pre/Corequisite: SOW 5105. (F)

SOW 5344 Theory and Practice with Communities and Organizations (3). Study and application of biopsychosocio-cultural dimensions, theories, techniques and intervention strategies for communities and organizations. Focuses on empowerment of populations at risk and promotion of social and economic justice. (S,SS)

SOW 5354* Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or Permission of the instructor.

SOW 5404 Social Work Research Methodology (3). This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics. (F,S)

SOW 5455 Writing and Managing Grants for Social Service Programs (3). Prepare students to write, develop and manage grants for social services programs. Develop knowledge of grant sources, the grant making, writing and management of grant funded social welfare services. Prerequisite: SOW 5344.

SOW 5532 Clinical Practicum I (6). The first masters-level field practicum and seminars that provide students with the opportunity to apply and integrate

generalist social work knowledge and skills. Prerequisites: SOW 5105, 5235, 5342, 5349, 5404. Corequisite: SOW 5629, 5324. (F.S.SS)

SOW 5541 Advanced Standing Seminar (2). This course examines the integration of academic knowledge and social work skills that develop the profession's critical thinking foundation. Prerequisites or Corequisites: SOW 5125, SOW 5324. (SS)

SOW 5605* Medical Social Work (3). Principles of medical social work practice in hospitals and communities. Focuses on the social worker as part of the health care team, with basic knowledge of medical problems · of patients and their families. Prerequisite: Graduate or senior standing.

SOW 5614* Social Work Practice with Persons Affected by Domestic Violence (3). Course prepares students to appropriately identify, assess, and intervene with persons affected by domestic violence utilizing assessment and intervention strategies in practice. Prerequisite: Graduate or Senior standing with the permission of the instructor.

SOW 5621* Social Work with Refugees, Immigrants, and Migrants (3). Provides skills and knowledge responsive to the needs of immigrants and refugees and addresses influences of cultural, ethnic, gender, age, and class differences in acculturation and service delivery. Prerequisite: Graduate or Senior standing with the permission of the instructor.

SOW 5624* Feminist Therapy in Social Work (3). Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisite: Graduate standing or Permission of the instructor.

SOW 5629 Social Work Practice with Diverse Populations (3). Prepares students for responsive practice with diverse populations, with emphasis on South Florida. Includes knowledge and skills in interviewing, assessment interventions, termination, and followup. Prerequisite: SOW 5342. (S.SS)

SOW 5635* School Social Work Practice (3). Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice to improve the functioning of children.

Prerequisites: Graduate or Permission of instructor.

SOW 5640 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

SOW 5646* Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and Permission of the instruc-

SOW 5672* 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: Graduate or Permission of instructor.

SOW 5689* Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems and explores treatment intervention modalities. Prerequisite: Graduate or senior level practice course Permission of the instructor.

SOW 5710* Current Issues in Addiction Practices (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: Graduate or Senior standing.

SOW 5845C* Counseling the Elderly (3). Applied gerontological knowledge to counseling skills required for independent as well as frail elderly clients. Course focuses on long and short term interventions in a range of practice settings. Prerequisite: Graduate or senior standing.

SOW 5905* Individual Study (1-3). Individually selected program of advanced supervised study related to specific issues in social work and social welfare. Prerequisite: Permission of the instructor.

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.

6114C Assessment Treatment of Addiction and Related Problems (3). Course provides increased understanding of treatment for addictive disorders including assessment, therapeutic techniques and supportive aftercare as well as community consultation and referal skills. Prerequisite: SOW 5710.

SOW 6236 Social Welfare Policy and Services II (3). This course offers students the opportunity to gain in-depth knowledge about social welfare policymaking processes and their impact on the social service delivery system. Prerequisite: SOW 5235.

SOW 6243 Child and Family Social Policy Issues (3). A comprehensive overview of the range of children and family policies, programs and issues in the U.S.A. in the context of comparing residual and institutional approaches to social service delivery, and policy implications for use of each approach.

SOW 6245 Social Welfare Policies and Services to the Elderly (3). The content of the course will center around the federal/state policies affecting the quality of life of the older person. Among the areas to be considered are an overview of the situation of the aged. specific public and private social welfare policies, including the origin of policy making, and problems involved in the process of implementation of social welfare policies for the elderly.

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.

SOW 6351 Clinical Intervention in Couple and Family Social Work Practice (3). This course will provide students with an understanding and application of the major models of social work intervention in working with marriages and families, with critical analysis skills in assessing functioning across the life span and in implementing intervention techniques. The influence of cultur-al/ethnic differences and how these may affect family relationships and func-tioning will be assessed. Prerequisite: Admission to concentration. (F)

SOW 6359 Social Work Treatment with Families of the Elderly (3). Preventive and treatment approaches in social work practice with families of the elderly. Focus on aging family as clientsystem; knowledge, skills needed for a range of interventions are provided.

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.

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.

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.

SOW 6435 Evaluating Empirically Based Social Work Practice (3). This course focuses on research designs and measurements for evaluating social work practice building on empirically- based approaches. Prerequisite: Admission to concentration or permission of the instructor. (F,S,SS)

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.

SOW 6533 Clinical Practicum II (3). The first part of two masters-level advanced field practicum courses and three integrative seminars that provide students with the opportunity to apply integrate advanced clinical knowledge and skills. This course is only offered in the Fall semester. Prerequisites: Satisfactory completion of all first year graduate courses or a BSW. Corequisite: SOW 6655-Clinical Intervention with Couples and Families.

SOW 6534 Clinical Practicum III (3). The second part of two masters-level advanced field practicum courses and three integrative seminars that provide students with the opportunity to apply integrate advanced clinical knowledge and skills. This course is only offered in the Spring semester. Prerequisites: SOW 6533-Clinical Practicum II, SOW 6351-Clinical Intervention with Couples and Families, SOW 6435-Evaluating Empirically Based Practice. Corequisite: SOW 6655-Clinical Intervention with Children and Adolescents.

SOW 6535 Clinical Practicum - Block (9). The second of two masters-level field practicum courses and integrative seminars that provide students with the opportunity to apply and integrate advanced clinical knowledge and skills. Prerequisites: SOW 5125, SOW 6351, and SOW 6236. Corequisites: SOW 6655. (S,SS)

SOW 6611 Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples. Focus will be given to nontraditional change strategies such as family sculpting, family reenactment, family choreography and dramatization. Extensive use of video taped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisite: SOW 6351 or permission of the instructor.

SOW 6646 Social Work Practice with the Elderly (3). The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society.

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.

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

SOW 6655 Clinical Intervention in Child and Adolescent Social Work Practice (3). This course will provide students with the opportunity to select, evaluate appropriate apply and interventive strate-gies in working with children and adolescents. Specific attention to socio-cultural, gender and racial differences in understanding development issues and in critically assessing the applicability of practice theories. Corequisite: SOW 6534 or SOW 6535. (S.SS)

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.

SOW 6711 Prevention of Addiction and Related Problems (3). Course provides increased understanding of substance abuse prevention including history and effective approaches as well as skills to reinforce healthy lifestyles and indentify early potential problems. Prerequisite: SOW 5710.

SOW 6914* Independent Research (1-6). Individually selected program of supervised data collection and analysis on specific topics in social work and social welfare. Prerequisite: SOW 5404 and permission of the instructor. (F,S,SS)

SOW 7216 Social Welfare Policy (3). Using a systemic approach and focusing on high-risk populations, this course analyzes the social welfare policymaking process and its impact on public and private social service delivery systems. Prerequisites: Admission to Ph.D. program or permission of the instructor.

SOW 7237 Micro-Practice Theory and Research (3). Analysis of research priorities in the development of effective interventions in the social welfare field. Prerequisite: Admission to Ph.D. program or permission of the instructor.

SOW 7238 Macro-Practice Theory and Research (3). This course focuses on intervention theory research and methods at the community, organizational and societal level. Prerequisite: Admission to Ph.D. program or permission of the instructor.

SOW 7406 History and Systems of Social Work Research (3). Development, dissemination, and utilization of Social Work Research; the social work research tradition; types of research questions in Social Welfare; past and current contextual influences on social work research.

SOW 7492 Theory Development and Research Methods in Social Welfare (3). The logic of social research, role of theory in social welfare research, range and limitations of research methods, ethical issues. Students begin work on their doctoral research proposal. Prerequisite or Corequisite: STA 6166 or equivalent. Prerequisite: Admission to

Ph.D. program or permission of the instructor.

SOW 7493 Research Methods in Social Welfare II (3). This second course in a two-semester sequence focuses primarily on design, measurement, and analysis issues in ethnographic field studies, surveys and group experiments for the evaluation of intervention technology in social welfare. Prerequisites: SOW 7492 and STA 6166, or equivalent. (SS)

SOW 7916 Supervised Research (3). Directed experience in the conduct of research in social welfare and social work under the guidance of a faculty member. Must be taken twice for a total of six credits. Prerequisite: Completion of first year. (F,S)

SOW 7932 Interdisciplinary Seminar on Social Welfare Within an Urban Milieu (3). Academics from social work and allied disciplines and professions will discuss their theoretical interests and research activities. Prerequisite: Successful completion of first year of Doctoral program.

SOW 7936 Dissertation Seminar In Social Welfare (3). This course focuses on helping students with the development of the dissertation prospectus. Emphasis is placed on development of an acceptable research protocol in the students' specialization area. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493. (5)

SOW 7980 Ph.D. Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in Social Welfare. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F.S.SS)

*Social Work Electives

3

3

3

3

3

3

3

Certificate Programs

Criminal Justice

Graduate Certificate in Justice Administration and Policy Making

The Graduate Certificate in Justice Administration and Policy Making is a professional certificate designed to complement a range of professional activities, academic programs, and degrees in the field of criminal justice. The goals of the program are (1) to stimulate interest in the study of justice administration and policy making at the graduate level, (2) to promote graduate studies with a concentration in criminal justice, and (3) to provide practitioners in the field of criminal justice with a cluster of courses leading to a specialization in criminal justice.

Admission

Students must have a bachelor's degree from an accredited college or university. Students must be admitted to the certificate program by the Program Coordinator, who will serve as their faculty advisor. Admission to the graduate certificate program does not ensure admission to the Master's Degree in Criminal Justice (MSCJ) program. NOTE: Those students who apply for and are admitted to the Master of Science in Criminal Justice degree program may have their Certificate courses with a grade of 'B' or better credited toward the Master of Science in Criminal Justice degree.

Program of Study

A total of 15 successfully completed semester hours is required for the award of the Graduate Certificate in Justice Administration and Policy Making. Students must complete their program of study within three years from the date of their admission and receive no less than a 3.0 GPA in their program of study.

Legal Issues for

Core Required Courses

CCJ 5288

	Criminal Justice
	Administrators
CCJ 6058	Theory in the
	Administration of
	Justice
CCJ 6456	Administration ar

Management of Justice Agencies

CCJ 6716 Planning and Program
Evaluation

Optional Courses

Select one of the following courses: substitution may be made with the approval of the faculty adviser.

CCJ 5605	Deviance and Social
	Control
CCJ 5935	Special Topics
CCJ 6477	Seminar in Information Systems
	-,

Law and Criminal Justice Certificate

The Law and Criminal Justice academic certificate is designed to provide legally-conscious students with concepts and information utilized by law professionals. Study shall include casework, procedures, court processes, research methods, and other introductory course work designed to enhance careers in the legal profession.

Admission

Students must be fully admitted to the Bachelor of Science degree in Criminal Justice or another bachelor degree program.

Certificate Award

The Certificate will be awarded upon completion of the required certificate courses and the bachelor degree requirements. The certificate will be posted on the student's transcript at the time the completion of the bachelor degree requirements is posted.

Required Criminal Justice Courses

The student shall complete a minimum of 18 semester hours of the following selected criminal justice courses with a minimum grade of 'C' in each course. Core criminal justice courses will not count for Criminal Justice majors. CCJ 3271 Criminal Procedure

CCJ 3290	Judicial Policy Making	3
CCJ 3291	Judicial Administration	3
CCJ 4032	Crime and the Media	3
CCJ 4252	Criminal Justice and the	е
	Constitution	3
CCJ 4280	Law and Criminal	
	Justice	3
CCJ 4282	Legal Issues in	
	Corrections	3
CCJ 4752	Legal Research	3
CCJ 5xxx	Seminar in Criminal	
	Law and Procedures	3
CCJ 5286	Comparative Law	3
		_

Health Services Administration

Certificate in Gerontology

The objective of the certificate is to provide graduate students and qualified

practitioners in the field of aging with a range of gerontological courses leading to a specialization in gerontology to supplement their chosen disciplines. Through provision of an in-depth understanding of the bio-sociopsychological 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 professionals in this area, and thereby improve the service delivery system for the increasingly large population of elderly Floridians.

Admission

Students must have a bachelor's degree and be admitted to the program by the Program Coordinator who will serve as their faculty advisor.

Program of Study: (18)

SOW 5641	Understanding the
	Process of Aging
NGR 5250	Physical Change and
	Healthy Aging
HSA 5226	Management of Long
	Term Care Systems

The balance of four courses to be selected from the following areas of concentration. Students who have not had direct practice with older people will be required to select an Individual Study course which will include 225 hours of practicum experience.

Long Term Care Administration

HSA 5225	Long Term Care
	Management I
HSA 5226	Management in Long
	Term Care
HSA 5227	Long Term Care
	Management II
HSA 5454	Ethical Decision
	Making in Health
	Services Administration
HSA 5816	Practicum in Long Term
	Care Management
A ! 1	D - L - L-1114 - 41

Aging and Rehabilitation OTH 5600 Study of Gerontology as

	Related to Occupational	
	Therapy	3
OTH 5613	Interdisciplinary	
	Approach to Aging	3
OTH 5630	Occupational Therapy	
	Assessment of the	
	Elderly	3
OTH 5764	Research (topic selected	!
	in Geriatric Clinical	

Specialty)

OTH 5905 Independent Study (variable credit) PTH 6238 Motor Development:

Adult Through Geriatrics 3

PTH 6239 Adult Congenital Handicapping Conditions 3 Psychology of Aging **DEP 5404** Proseminar in Psychology of Adulthood and Aging 3 **DEP 6438** Gerontological Assessment 3 **DEP 6465** Psychology of Culture and Aging 3 Cognitive Processes of **DEP 6446** Aging 3 Social Work Practice with Older Persons

SOW 5605 Medical Social Work SOW 5845C Counseling the Elderly 3 SOW 5905 Individual Study 1-3 SOW 6245 Social Welfare Policy and Services for the Elderly1 3 SOW 6247 Housing and Environmental Needs 3 SOW 6359 Social Work Treatment with Families of Elderly1 3 Social Work Practice SOW 6646 3 with Elderly1 SOW 6647 Advocacy in Social Work Practice 3 SOW 6649 Social Work Practice in Long Term Care and the Elderly

Open only to students with MSW degree or students in Master's degree program in Social Work.

Education

Designing Education ADE 5195 and HRD Programs for Disadvantaged Adults 3

Criminal Justice

CCI 5935 Special Topics: Crime and the Elderly 3

Graduate Certificate in **Health Services** Administration

The objective of the certificate is to provide individuals with masters, doctoral or equivalent degree to understanding of the develop an context and/or skills of health services administration. This certificate is designed to assist individuals to advance in professions or careers related to health services administration.

Admission

Students must have earned a masters. doctoral or equivalent degree with either a management or clinical base. Such degrees would include but not be limited to the MBA, MD, DO, Masters of Nursing, Masters in Physical

Therapy, etc. The student must be admitted to the certificate program by the Program Coordinator who will serve as the student's advisor. All students must submit a graduate application to the University and arrange for an interview with the Program Coordinator.

Program of Study: (18) Students with managerial backgrounds will take 6 credit honrs:

Intro to Health Services 3 HSA 5125 HSA 6415 Management Applications of Social Determinates of Health 3

Students with clinical backgrounds will take 6 credit hours:

HSA 6185 Health Organization and Management 3 URS 6654 Applied Organization Theory and Behavior

All students will take the following 6 credits:

HSA 6149 Strategic Planning and Marketing of Health . Care Services 3 HSA 6176 Financing and Reimbursement of Health Systems 3

One of the following two: HSA 6155 Health Policy and Economics 3 HSA 6717 Advanced Health Services Management

Seminar 3 One of the following five: Long Term Care HSA 5225 Management 3 HSA 6197 Design and Management of Health Information Systems

HSA 6205 Hospital and Health Facility Organization HSA 6215 Managed Care Administration

Residency

Administrative

HSA 6875

3

3

3

PAD 6xxx

PAD 6605

URS 6654

Public Administration Graduate Certificate in Human Resource Policy and Management

Human Resource Policy Management is designed to give graduate students a range of policyanalytic and management skills. It training in alternative provides personnel systems, (civil service, collective bargaining, privatization and service contracting), personnel techniques for productivity improvement, current issues. and ethics This professionalism. certificate emphasizes the application of behavioral science concepts and techniques to employers in a multicultural context.

Admission

All applicants must hold baccalaureate degree from an university. accredited college or 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 Resource Policy Human 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: Public Personnel URS 6130 Administration

3

3

3

Four of the following nine courses must be taken to complete the certificate.

PAD 5043 Government and Minority Group Relations 3 PAD 5427 Collective Bargaining and the Public Sector 3 PAD 5435 Administrator and the Role of Women 3 PAD 5460 Productivity Improvement 3 PAD 5616 Contracting and Managing Third Party Governments 3 URS 6436 Professionalism and 3 Ethics

Theory and Behavior Students must complete their program of study within three years from the date of admission and receive no less than 3.0 GPA.

1T & E Government

Adminstrative Law

Applied Organization

Graduate Certificate Program in Environmental Health

The Graduate Certificate Program seeks to provide graduate level instruction in environmental health to non-graduatedegreed practitioners. completion of the certificate program the student will be able to develop, implement, manage, and assess environmental and occupational contaminants programs for local, state and Federal regulatory agencies. The program has been developed to allow working professionals in Public Health to expand or upgrade their skills and to provide incremental academic steps for individuals heading towards their first or second professional degree in environmental health sciences. Online courses in Fall 2001.

Program Requirements

The Graduate Certificate Program requires the completion of 18 graduate credits. The student must demonstrate proficiency in the identification and characterization of human ecological exposures to environmental occupational contaminants. Students who are proficient in any one area covered by the required courses may choose from selected alternative courses to complete their requirements.

Required Courses: (18)

PHC 6315	Public Health and
	Environmental
	Management
PHC 6355	Public Health and
	Occupational Health and
	Safety
PHC 6310	Environmental and
	Occupational
	Toxicology
PHC 6307	Environmental Health
	Monitoring and
	Laboratory
PHC 6001	Environmental and
	Occupational
	Epidemiology
PHC 6004	Injury Epidemiology
	and Violence Prevention

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university, and must have completed a prerequisite graduate course in biostatistics or scoial science statistics.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Graduate Certificate in **Epidemiology**

This Graduate Certificate seeks to provide graduate level instruction in epidemiology to non-graduate-degreed Students shall be practitioners. provided with a scientific foundation to utilize the fundamentals of biometry to describe and study variables related to disease risk, and to organize and maintain databases, while at the same time be provided with opportunities for practical application.

Program Requirements

The Graduate Certificate requires the completion of 18 graduate credits. The student must demonstrate proficiency research methodology, basic statistical and computer skills related to distribution and determinants of disease. If students are proficient in any one area covered by the required courses, alternative courses may be selected. Substitution of courses must be approved by the advisor. Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment stipulations.

Required Courses: (18)

PHC 5xxx	Chronic and Intectious	
	Diseases Epidemiology	3
PHC 6000	Introduction to Public	
	Health Epidemiology	3
PHC 6001	Environmental and	
	Occupational	
	Epidemiology	3
PHC 6004	Injury Epidemiology	
	and Prevention	3
PHC 6009	AIDS Epidemiology an	d
	Control	3
PHC 6539	Health Demography	3
Altonnoto C	Carrage (6)	

Alternate Courses: (6 maximum)

If students are proficient in any one area covered by the required courses, the following courses may be substituted:

PHC 6012 Current Research in

	Epidemiology	3
PHC 6014	Behavioral	
	Epidemiology	3
PHC 6015	Epidemiology Methods	3
PHC 6016	Social Epidemiology,	
	Health Promotion and	
	Doliny	2

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Graduate Certificate in Public Management

This graduate 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

applicants must hold baccalaureate degree from accredited college or university. Students must be admitted to the program by the Program Coordinator, who will serve as their faculty advisor. Admission to a certificate program does not ensure admission to the master's degree in Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have Certificate courses credited toward the MPA core. However, if students have enrolled in more than one certificate program, a maximum of 15 semester hours from the certificate program may be accepted into the MPA program.

All certificate applicants will be encouraged to acquire proficiency in the use of microcomputers prior to initial registration. Applicants without this proficiency may wish to take PAD 5716, Information Systems for Public Organizations, prior to, or concurrent with, initial course work.

Program o	f Study: (15)	
PAD 6053	Political, Social, and	
	Economic Context of	
	PA	3
URS 6654	Applied Organization	
	Theory and Behavior	3
PAD 6227	Public Finance and &	
	Budgetary Process	3
PAD 6xxx	IT & E Government	3
PAD 6807	Urban and Municipal	
	Government	
	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.

Social Work

Post-MSW Certificate in Clinical Practice

This certificate program is designed for MSW practitioners who specialized in macro/administrative or generalist practice and wish to increase their knowledge and skills in direct services/clinical practice with services to children and families of the elderly. In most cases, MSW practitioners completing this certificate will have the requisite MSW course work for clinical licensure in the state of Florida.

The post-MSW Certificate in Clinical Practice program of study is under revision. Students should anticipate changes in the 6000 level courses.

Program of Study

SOW 5125 Human Behavior and Social Environment II-Psychopathology

Intervention Strategies SOW 6351 with Marriage and the Family

SOW 5643 Understanding the Process of Aging

Advanced Intervention SOW 6655 Strategies with Children and Adolescents

Social Work Practice SOW 6646 with the Elderly Social Work Elective (clinical)

SOW 6535 Field Practicum II SOW 6543 Integrative Field Seminar II

College of Health and Urban Affairs

Dean Ronald M. Berkman
Associate Dean
Assistant Dean
Associate Dean
Associate Dean
Associate Dean
Associate Dean
Associate Dean

Directors, Chairs, and Coordinators: School of Health Noma Anderson

Dietetics and Nutrition

Dian Weddle

Occupational Therapy Physical

Pamela Shaffner

Therapy Helen Cornely
Public Health Andrew Miracle
(Interim Chair)

Communication Sciences and Disorders

Lemmietta McNellly

School of Nursing

Divina Grossman

School of Policy Management Criminal Justice

Ray Thomlison Luis Salas

Health Information

Management Sandra McDonald,

(Interim)

Health Services
Administration Friedrick Newman

Public
Administation Fred Becker

School of Social
Work

Ray Thomlison

Faculty

Abdel-Moty, Alma, M.S., O.T.R. (Florida International University), Clinical Assistant Professor, Occupational Therapy

Alexander-Delpech, Paula, M.S.N., RN, ARNP (Florida International University), Assistant Director of Admissions and Student Services, Nursing

Anderson, Barbara V., M.S., M.T. (ASCP), S.B.B., (Ohio State University), Coordinator, Academic and Student Affairs, School of Health

Anderson, Lori, Ed.D., O.T.R. (Nova Southeastern University), Visiting Clinical Assistant Professor, Occupational Therapy

Ardlla, Alfredo, Ph.D. (Moscow State University), Associate Professor, Communication Sciences and Disorders

Averch, Harvey, Ph.D. (University of North Carolina), Professor, Public Administration Undergraduate Studies Baum, Marianna, Ph.D. (Florida State University), Professor, Dietetics and Nutrition

Beaulaurier, Richard, Ph.D. (University of Southern California), Assistant Professor, Social Work

Becker, Fred, Ph.D. (University of Oklahomo), Associate Professor, Public Administration

Bergwall, David, D.B.A. (George Washington University), Associate Professor, Health Services Administration

Berkman, Ronald M., Ph.D. (Princeton University), Professor, Public Administration and Dean

Bernstein, Steve, Ph.D. (Nova Southeastern University), Director of Information Technology, Dean's Office

Blais, Kathleen, Ed.D., RN, (Florida Atlantic University), Associate Professor and Associate Director, Undergraduate Programs, Nursing

Bloch, Elise, M.E.D., O.T.R. (Queens College, City University of New York), Clinical Assistant Professor, Occupational Therapy

Boho, Charles, J.D. (Georgia State University), Clinical Assistant Professor, Nursing

Bogopolskiy, Tatayana, M.S.N. (Florida International University), Visiting Clinical Instructor

Brooten, Dorothy, Ph.D., RN, FAAN (University of Pennsylvania), Professor, Nursing

Brown, Arlene, Ph.D. (Florida International University), Instructor and Coordinator of Broward Programs, Social Work

Brown, Jordana, R.D. (Wayne State University), Clinical Assisatnt Professor, Dietetics and Nutrition

Buss, Terry, Ph.D. (Ohio State University), Professor, Public Administration

Byrnes, Joseph P., M.P.A. (Florida International University), Instructor, Criminal Justice

Campa, Adriana, Ph.D. (University of Miami), Research Assistant Professor, Dietetics and Nutrition

Carroll, James, Ph.D., J.D. (Syracuse University), Professor, Public Administration

Castellanos, Victoria Hammer, Ph.D., R.D. (University of California-Davis), Assistant Professor, Dietetics and Nutrition

Cavazos, Roberto, Ph.D. (University of Texas at Dallas), Assistant Professor, Public Administration Chard, Robin, M.S.N., RN, ARNP (Barry University), Visiting Assistant Professor, Nursing

Ciccazzo, Michele W., Ph.D., R.D. (Florida State University), Associate Professor, Dietetics and Nutrition

Ciocon, Daisy, Ph.D. (University of Miami), Associate Professor, Nursing

Cohen, David, Ph.D. (University of California-Berkeley), Professor, Social Work

Cohn, Ellen, Ph.D. (University of Cambridge), Associate Professor, Criminal Justice

Cornely, Helen Z., M.S., P.T. (Nova University), Associate Professor, Physical Therapy

Curry, Katharioe R., Ph.D., R.D., (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition

D'Alessio, Stewart, Ph.D. (Florida State University), Associate Professor, Criminal Justice

Darrow, William, Ph.D. (Emory University), Professor, Public Health

Dawson, Thomas, J. Jr., MHSA, Courtesy Assistant Professor

Deckard, Gloria, Ph.D. (University of Missouri), Associate Professor, Health Services Administration

De La Rosa, Mario, Ph.D. (Ohio State University), Associate Professor, Social Work

de Leon, Catherine, LCSW (San Jose State University), Student Services Coordinator, Social Work

Dévieux, Jessy, Ph.D. (George Peabody College at Vanderbilt University), Research Associate Professor, Public Health

Dixon, Zisca, Ph.D., R.D. (Texas A&M University) Associate Professor, Dietetics and Nutrition

Dumaine, Marian, Ph.D. (Florida International University), Assistant Professor and Cooridnator of Field Education, Social Work

Easton, Penelope S., Ph.D., R.D. (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition

Eitle, David J., Ph.D. (Indiana University), Assistant Professor, Criminal Justice

Elbaum, Leonard, Ed.D., P.T. (Florida International University), Associate Professor and Chair, Physical Therapy

Enrione, Evelyn B., Ph.D., R.D. (Purdue University), Associate Professor, Dietetics and Nutrition,

- and Associate Dean
- Fingerhut, Scott, J.D. (Emory University), Visiting Instructor, Criminal Justice
- Frank, Howard, Ph.D. (Florida State University), Associate Professor, Public Administration
- Friedemann, Marie-Luise, Ph.D., RN-CS (University of Michigan), Professor, Nursing
- Galindo-Ciocon, Daisy, Ph.D., RN, CCRN, ARNP (University of Miami), Associate Professor, Nursing
- Garcia-Zamor, Jean-Claude, Ph.D. (New York University), Professor, Public Administration
- Gasana, Janvier, M.D., Ph.D. (University of Illinois-Chicago), Assistant Professor, Public Health
- George, Valerie, Ph.D. (University Laval), Research Associate Professor, Dietetics and Nutrition
- Gil, Andres, Ph.D. (University of Miami), Associate Professor, Social Work
- Granville, Mirta, M.S.N., RN-CS, ARNP (California State University-Long Beach), Clincal Assistant Professor, Nursing
- Groom, Jeffery, Ph.D., RN, CRNA, ARNP (Nova-Southeastern University), Clinical Associate Professor, Nursing
- Grossman, Divina, Ph.D., RN, ARNP, CS, FAAN (University of Pennsylvania), Director and Professor, Nursing
- Gusman, Lori, M.S., P.T. (Florida International University), Clinical Assistant Professor, Physical Therapy
- Hamilton, Margaret, DNS, RN (Indiana University), Assistant Prafessor, Nursing
- Haskins, Awilda R., Ed.D., P.T. (Florida International University), Associate Professor, Physical Therapy
- Hayden, Mary Helen, M.S.W., ACSW, L.C.S.W. (Florida State University), Assistant Professor and Associate Director Academic Programs, Social Work
- Hernandez, Laura, M.S.N., RN, ARNP (Barry University), Instructor, Nursing
- Hills, Gail A., Ph.D., O.T.R., F.A.O.T.A. (University of Maryland), Professor, Occupational Therapy
- Himburg, Susan P., Ph.D., R.D., FADA (University of Miami), Professor, Dietetics and Nutrition

- Hlaing, Way Way, Ph.D. (University of South Florida), Assistant Professor, Public Health
- Hogan, Gerald, M.S.N., RN, CRNA, ARNP (University of North Carolina), Visiting Clinical Assistant Professor, Nursing
- Huffman, Fatma, Ph.D., R.D. (Auburn University), Professor, Dietetics and Nutrition
- Jaffe, Amy, M.S., R.D. (Florida International University), Clinical Instructor, Dietetics and Nutrition
- Janos, Steve, M.S., P.T., O.C.S. (Northwestern University), Visiting Assistant Professor, Physical Therapy
- Jenkins, Sarah, M.S.N., RN, ARNP (Indiana University), Clinical Instructor, Nursing
- Jones, Rosa L., D.S.W., ACSW, L.C.S.W. (Howard University), Associate Professor, Social Work and Vice President, Academic Affairs and Undergraduate Studies
- Jones, Sandra, Ph.D. (Barry University), Assistant Professor, Nursing
- Jorda, Mary, M.P.H., RN, ARNP, (University of North Carolina-Chapel Hill), Instructor, Nursing
- Jo Trepka, Mary, Ph.D. (University of Colorado), Associate Professor, Public Health
- Kakar, Suman, Ph.D. (University of Florida), Associate Professor, Criminal Justice
- Kapian, Susan H., Ph.D., MBA, O.T.R. (University of Miami), Associate Professor and Chair, Occupational Therapy
- Kirk-Sanchez, Neva, Ph.D., P.T. (University of Miami), Assistant Professor, Physical Therapy
- Lewis, Ralph G., Ed.D. (Harvard University), Associate Professor, Public Administration
- Lizardo, Lourdes, Ed.D., RN-CS, ARNP (Florida International University), Lecturer, Nursing
- Lobar, Sandra, Ph.D., RN-CS, ARNP, (University of Miami), Associate Professor, Nursing
- Lu-Guo, Kristina, Ph.D. (Florida International University), Assistant Professor, Health Services Administration
- Mallow, Robert, Ph.D. (University of Illinois, Chicago), Research Professor, Public Health
- McCoy, H. Virginia, Ph.D. (University of Cincinnati), Professor, Public Health

- McDonald, Sandra, M.H.S.A., RHIA (Florida International University), Coordinator, Health Information Management
- McDonough, John, Ed.D., RN, CRNA, ARNP (Drake University), Clinical Professor, Nursing
- McNeilly, Lemmietta, Ph.D., C.C.C. (Howard University), Associate Professor and Chair, Communication Sciences and Disorders
- Macgowan, Mark J., Ph.D., L.C.S.W. (Barry University), Assistant Professor, Social Work
- Magnus, Marcia H., Ph.D. (Cornell University) Associate Professor, Dietetics and Nutrition
- Mahecha, Nancy Ruiz, Ph.D., CCC-SLP (City University of New York), Clinical Assistant Professor, Communication Sciences and Disorders
- Maring, Joyce R., M.S., P.T. (Boston University), Clinical Assistant Professor, Physical Therapy
- Martinez, Ramiro, Ph.D. (Ohio State University), Associate Professor, Criminal Justice
- Mead, Jean, Ed.D., CSD (West Virginia University), Clinical Assistant Professor, Communication Sciences and Disorders
- Mitchell, Welker, Ph.D. (Florida International University), Instructor and Associate Director, Administration, Social Work
- Monserrate, Jorge, R.D. (Texas Woman's University), Clinical Assistant Professor, Dietetics and Nutrition
- Newman, Frederick, Ph.D. (University of Massachusetts), Professor, Health Services Administration
- Parchment, Yvonne, Ed.D., RN-CS, CCRN, ARNP (Florida International University), Clinical Assistant Professor, Nursing
- Patterson, Joseph, Dr. P.H. (University of California-Los Angeles), Professor Emeritus, Public Health
- Patterson, Valerie L., Ph.D. (Florida International University), Instructor, Public Adminstration
- Patton, Richard, M.P.H., R.D. (University of North Carolina), Clinical Assistant Professor, Public Health
- Peery, Jace, M.S.N., RN (University of Alaska), Instructor, Nursing
- Phillips, Suzanne, Ed. D., RN, ARNP, (Flarida International University),

Associate Professor, Nursing

Porter, Luz, Ph. D., RN-CS, ARNP, (New York University), Professor, Nursing

Potocky-Tripodi, Miriam, Ph.D. (University of Kansas), Associate Professor, Social Work

Ramos, Elaine, Ph.D., C.C.C.-S.L.P. (University of Massachusetts), Assistant Professor, Communication Sciences and Disorders

Rassi, Lourdes, Ph.D. (University of Miami), Associate Director and Instructor, School of Policy and Management, Public Administration

Revell, Keith D., Ph.D. (University of Virginia), Associate Professor, Public Administration

Rice, Christopher, Ph.D. (Washington University), Assistant Professor, Social Work

Roberts, Lisa, M.S., P.T., G.C.S. (Nova Southeastern University), Visiting Clinical Assistant Professor, Physical Therapy

Rodriguez, Estela, LCSW (Barry University), Visiting Instructor

Rose-St. Prix, Colleen, M.H.S.A., P.T. (Florida International University), Associate Professor, Physical Therapy

Rosenbaum, Allan, Ph.D. (University of Chicago), Professor, Public Administration

Ross, Frona, Ph.D., CCC-SLP (Florida State University), Visiting Associate Professor, Communication Sciences and Disorders

Salas, Luis P., J.D. (Wake Forest University), Professor and Coordinator, Criminal Justice

Sari, Nazmi, Ph.D., (Boston University), Assistant Professor, Health Services Administration

Scott, Patricia, Ph.D., MPH, O.T.R. (Florida International University), Associate Professor, Occupational Therapy

Shaffner, Pamela, M.S., O.T.R. (University of Florida), Clinical Associate Professor, and Chair, Occupational Therapy

Sheffey, Agnus, O.T.D. (Nova Southeastern University), Visiting Assistant Professor, Occupational Therapy

Slmon, Sharon, M.D. (University of Miami), Clinical Assistant Professor, Nursing

Smith, Betsy A., Ph.D. (State University of New York at Buffalo), Associate Professor, Social Work Smith, H.T., J.D. (University of Miami), Visiting Lecturer, Criminal Justice

Stolzenberg, Llsa, Ph.D. (Florida State University), Associate Professor, Criminal Justice

Terry, W. Clinton, Ph.D. (University of California-Santa Barbara), Associate Professor, Criminal Justice

Thomlison, Barbara, Ph.D. (University of Toronto), Professor and Acting Director, Institute for Children and Families At Risk, Social Work

Thomlison, Ray, Ph.D. (University of Toronto), Professor and Director, Social Work

Van Den Bergh, Nan, Ph.D. (University of Pittsburgh), Associate Professor, Social Work

Wagner, Eric F., Ph.D. (University of Pittsburgh), Professor, Social Work, Director, Teen Intervention Project

Weddle, Dian O., Ph.D., R.D., FADA (University of Illinois), Associate Professor, Dietetics and Nutrition

Welliver, Mark, M.S.N., CRNA (St. Joseph's University), Visiting Clinical Assistant Professor, Nursing

Wellman, Nancy S., Ph.D., R.D., FADA (University of Miami), Professor, Dietetics and Nutrition

White, Vandon E., Ph.D. (Purdue University), Professor Emeritus, Health Services Administration

Williams, Charlene, M.S.N. (University of Pittsburg), Visiting Clinical Assistant Professor, Nursing

Witland, Mark, Ph.D., CSD (Nova Southeastern University), Clinical Associate Professor, Speech Language Pathology

Wong, Stephen, Ph.D. (Western Michigan University) Associate Professor, Social Work

Youngblut, JoAnne, Ph.D., RN, FAAN (University of Michigan), Professor, Nursing

	Graduate Catalog
100	Graduate Catalog

•

School of Hospitality and Tourism Management

School of Hospitality and Tourism Management

Joseph J. West, Dean and Professor Lee C. Dickson, Associate Dean and Associate Professor

Rocco M. Angelo, Associate Dean and Professor

Joan S. Remington, Assistant Dean for Academics and Director, Career Development; Director, Institute for Hospitality and Tourism Education and Research

Elio C. Bellucci, Professor Ahmed Bouabdelah, Visiting,

Assistant Professor
Cheryl M. Carter, Instructor
Patrick J. Cassidy, Instructor
Percival Darby, Assistant Professor
Jacqueline de Chabert-Rio3, Assistant
Professor

M. Nancy Del Risco, Lecturer, Director, Tourism Studies Marcel R. Escoffier, Associate

Professor

Professor and Director, Luzern Professor and Director, Luzern Professor William M. Hansen, Instructor Charles L. Ilveuto, Professor Lendal H. Kotschevar, Professor Emeritus

Gerald W. Lattin, Professor Emeritus Anthony G. Marshall, Dean Emeritus Steven V. Moll, Associate Professor and Director, Graduate Program

Elisa Moncarz, Professor Michael J. Moran, Instructor William J. Morgan, Jr., Professor

Diann R. Newman, Instructor and Academic Advisor

William G. O'Brien, Associate Professor

Alan J. Parker, Professor and Director, Center for Tourism and Technology

Nestor Portocarrero, Professor Roger Probst, Instructor William J. Qualn, Professor J. Kevin Robson, Associate Professor Donald G. Rosellini, Lecturer Kennard Rutkowski, Academic Advisor and Instructor

David M. Talty, Instructor
Mary L. Tanke, Associate Professor
Jinlin Zhao, Associate Professor

The School of Hospitality and Tourism Management offers Bachelor's and Master's Degrees in Hospitality Management and Tourism Studies and Certificate Programs that combine practical experience with classroom

theory to assist the student to gain the understanding, skills, and techniques needed to qualify for job opportunities and to achieve his or her career goals in the hospitality industry.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, resorts, restaurants, clubs, airlines, travel agencies, and cruise lines as practice labs for students. The advanced phase of the graduate internship program provides each student a structured training experience normally not available to a student until he or she has entered the industry after graduation.

An Industry Advisory Board - which includes outstanding executives in the lodging, foodservice and tourism industries - works regularly with the faculty, staff, and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality industry.

The School was designated a Program of Distinction by the former Florida Board of Education.

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 FIU Board of Education and the Florida Legislature. Changes may be made without advanced notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Location

The School is located on 200 tropical acres in a resort-like setting at the scenic Biscayne Bay Campus at Biscayne Boulevard (U.S.1) and Northeast 151 Street, North Miami, Florida.

Admission

Applicants to the School must submit an Application for Admission to the University and must follow the regular University admission procedures described in the Admission section of the catalog. Applicants must be eligible for admission to the University before admission to the School.

Admissions standards for the Master of Science degrees in Hospitality

Management (0274, 0275) and Tourism Studies (0273) are an earned bachelor's degree with a 3.0 grade point average (GPA) on a 4.0 scale.

An applicant who feels the earned GPA is not indicative of his or her ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) which will be taken into consideration by the admissions committee in its evaluation of the application. A minimum TOEFL score of 550 is required for international applicants.

Applicants who meet admissions criteria, but do not have undergraduate preparation in . Hospitality Management, must complete a series of undergraduate preparatory courses. Specific courses will depend upon the individual's undergraduate preparation. Twenty-four credit hours of preparatory courses normally will be required. Undergraduate prerequisite courses may be taken at FIU in combination with required graduate courses. A maximum of six semester hours of related graduate credit may be transferred from another university or from the graduate programs of this University.

There is a requirement that all students complete 1000 hours of practical training work experience in the Hospitality or Tourism Industry in addition to the Graduate Internship of 300 hours. A minimum of 800 hours of the total 1300 hours must be completed while enrolled at FIU. Work experience documentation is required.

Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for a master's degree.

2. Complete a minimum of 39 semesters hours of graduate level course work in the Hospitality Management or Tourism Studies curriculum. (Exception: Executive Hospitality Management Track).

3. Earn a minimum grade point average of 'B' (3.0) in all approved courses in the student's graduate program of study.

Earn an acceptable score on the GRE or GMAT.

3

No courses, in which a grade below 'C' is earned, may be counted toward the Master's Degree in Hospitality Management or Tourism Studies. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded 'D' or 'F'.

Non-Degree Seeking Students

Individuals currently employed in the hospitality or tourism field, who do not have the educational requirements to meet degree admission standards, may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a Non-Degree Seeking Student for a total of 12 semester hours.

Master of Science in **Hospitality Management**

Undergraduate Prerequisites (24)

Ondergrad	idate Frerequisites	(4
HFT 3403	Accounting for the	
	Hospitality Industry	3
HFT 4464	Financial Analysis in the	e
	Hospitality Industry	3
HFT 4474	Management	
	Accounting for the	
	Hospitality Industry	3
FSS 3230C	Introductory	
	Commercial Food	
	Production	3
FSS 4234C	Advanced Food	
	Production Managemen	t3
	or	
HFT 4802	Catering Management	3
HFT 3503	Hospitality Marketing	
	Strategy	3
HFT 3603	Law for the Hospitality	
	Industry	3
	or	
HFT 4227	Travel Industry Law	3
ENC 3311	Advanced Research	
	Writing	3
Attendance at	Dean's Lectures	
Core Requ	irements (27)	
HFT 6246	Organizational Behavior	r
	in the Hospitality	
	Industry	3
HFT 6245	Hospitality/Tourism	
	Service Operations	
	Analysis	3
HFT 6296	Strategic Management	
	for Hospitality and	
	Tourism	3

Case Studies in

e-Commerce for the

Hospitality Industry

3

3

Hospitality Management

HFT 6299

HFT 6555

111.1 0200	Research and Statistical	
	Methods	3
HFT 6477	Financial Management	
	for the Hospitality	
	Industry	3
HFT 6476	Feasibility Studies for	
	the Hospitality	
	Industry	3
	or	
HFT 6478	Restaurant	
	Development ¹	3
HFT 6697	Hospitality Law	
	Seminar	3
HFT 6946	Graduate Internship	0
Graduate Hospitality		
Management Electives: 1		
In place of HFT 6476 or HFT 6478		

Research and Statistical

HFT 6586

and two electives, the student may choose to complete HFT 6916, the Hospitality Industry Research Project, which carries a nine credit hour requirement. An additional graduate statistics course will be required.

Graduate Internship

Required for all graduate students unless prior experience warrants a waiver of this requirement (see advisor for information).

Industry Experience Requirement: 1300 hours

1000 hours of hospitality related practical training work experience is required plus 300 hours for the Graduate Internship. A minimum of 800 hours must be completed while enrolled in the graduate program at FIU. Work experience documentation is required.

Master of Science in Hospitality Management

Executive Masters Track Hospitality Management: (30)

Management Experience

A minimum of five years hospitality related management experience is required for acceptance into this track. Applicants must currently hold a management position in the hospitality or tourism industry. A Bachelor's degree from an accredited institution and an acceptable score on GRE or GMAT exam is required.

Undergraduate Prerequisites: (9) HFT 3403 Accounting for the

Hospitality Industry

3

HFT 4464	Financial Analysis	
	in the Hospitality	
	Industry	3
HFT 4474	Management Accounti	ng

for the Hospitality	
Industry	
Core Requirements (30)	

HFT 6xxx	Asset Management in	
	the Hospitality Industry	3
HFT 6596	Marketing Management	3
HFT 6555	e-Commerce for the	
	Hospitality Industry	3
HFT 6296	Strategic Management	
	for Hospitality and	
	Tourism	3
HFT 6245	Hospitality/Tourism	
	Service Operations	
	Analysis	3
HFT 6446	Hospitality Enterprise	
	Technologies	3
HFT 6477	Financial Management	
	for the Hospitality	
	Industry	3

	Industry	3
HFT 6476	Feasibility Studies for	
	the Hospitality	
	Industry	3
	or	
HFT 6478	Restaurant	
	Development	3
HFT 6257	Contemporary Issues in	

	the bodging madety
HFT 6299	Case Studies in
	Hospitality
	Management

the Lodging Industry 3

Evening courses available. Also available via distance learning. Master of Science in

Tourism Studies

ENC 3311

ECO 2013

Undergraduate Prerequisites (21)

Advanced Research

for Hospitality Industry 3

Macroeconomics

3

3

3 3

	Writing
HFT 3403	Accounting for the
	Hospitality Industry
HFT 4509	Tourism Marketing
HFT 4465	Finance for Tourism
HFT 3713	International Tourism
HFT 4520	Personal Sales Tactics

Core Requirements (24) HFT 6562 Global Destinations

	Marketing	
	Organizations	3
HFT 6586	Research and Statistical	
	Methods	3
HFT 6507	Tourism Marketing on	
	the Internet	3
HFT 6711	Tourism and Economics	3

111 1 0/11	I our isin and Leonon
HFT 6706	Environmental
	Management Systems
	for Tourism

HFT 6712 Tourism Planning and Regional Development 3 HFT 6715 Problem Solving in Travel and Hospitality 3 HFT 6472 Feasibility Studies for Tourism Graduate Electives (15) Students select an area of specialization (Some courses may be taken outside the SHM. Must have advisor's approval and signature) Marketing HFT 6555 E-Commerce HFT 6596 Marketing Management 3 Approved Elective 3 HFT **HFT** Approved Elective 3 Approved Elective 3 **HFT** Management (select 5 courses) HFT 6756 Convention and Meeting Management HFT 6299 Case Studies in Hospitality Management 3 Strategic Management HFT 6296 for Hospitality and 3 Tourism Time Share HFT 6278 3 Management HFT 6225 Multicultural Human Resources Mgmt for the Hospitality Industry Organizational Behavior HFT 6246 in the Hospitality 3 Industry Motivation and HFT 6226 3 Leadership Hospitality/Tourism HFT 6245 Service Operations 3 Management **Environmental Issues** Parks and Recreation LEI 5xxx 3 Facilities Planning Protected Area EVR 5360 Management 3 Theory of Landscape LAA 5235 Architecture 3

Approved Elective 3 Approved Elective 3 EVR

Advertising and Public Relations Integrated Advertising PUR 5806 and Public Relations Advertising and Public PUR 5607 Relations Management 3 Multi-Cultural PUR 5406 Communications Approved Elective PUR

3

3

3

3

Others (To be submitted by student and approved by Graduate Advisor)

Approved Elective

Industry Experience Requirement: 1300 hours

PUR

A minimum of 800 hours must be completed while enrolled in the degree program at FIU. Work documentation is required.

Course Descriptions

Definition of Prefixes

FSS - Food Service Systems; HFT -Hotel, Food, Tourism.

FSS 6108 Purchasing and Menu Planning (3). Advanced information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods, including development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

FSS 6365 Foodservice Systems (3). Principles of system analysis applied to the foodservice industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application economic and management principles for solution.

FSS 6452 Advanced Foodservice Design Operations (3). Advanced planning, programming, and project documentation for commercial food service facilities. Spatial, environmental, and electro-mechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: **HFT 4343**

FSS 6834 Foodservice Research (3). The planning, executing, and reporting of an individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation, and interpretation.

HFT 5547 Leadership Training for Team Building (3). Students will learn leadership skills to facilitate team building activities in order to improve group communication, trust, problemsolving, and productivity.

HFT 5655 Franchising and Management Contracts (3). A comprehensive course designed to examine the franchise/franchisor, franchisee and owner/manager relationships in hotel and foodservice operations and the mutual obligations created by each type of contract. Prerequisite: HFT 3603.

HFT 5719 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on packages developing tour international and developing nation's situations. Prerequisites: HFT 3700 or equivalent.

HFT 5901, 5906, 5911 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research proiects and other approved phases of independent study.

HFT 6208 Hospitality Industry Consulting (3). Provides in-depth analysis of hospitality consulting. Includes opportunities techniques and methodologies used in practice. Lectures, case studies, projects and site visits are used.

HFT 6225 Multicultural Human Resources Management for the Hospitality Industry (3). A study of personnel, consumer relations, and diversity in the hospitality industry within a multicultural, multiracial, and society through an multiethnic examination of value systems and cultural characteristics.

HFT 6226 Motivation and Leadership (3). Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

HFT 6227 Hospitality Management Training Systems (3). A course designed to develop and provide applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used.

HFT 6228 Managing Self and Others in the Hospitality Industry (3). Students will increase managerial effectiveness by learning and applying a model for enhancing self-esteem and integrating that model into their for the managerial philosophy hospitality industry.

HFT 6245 Hospitality/Tourism Service Operations Management (3). Application of techniques to create, operate staff and evaluate service systems for hospitality/tourism enterprises. Emphasis on queues, forecasting demand, route and scheduling and quality management.

HFT 6246 Organizational Behavior in the Hospitality Industry (3). A survey of the concepts of organizational behavior and industrial psychology theory, from both the research and practical points of view. The course is designed to assist students in making sound decisions in the hospitality area by making them sensitive to the organizational parameters which influence their decisions.

HFT 6256 International Hotel Operations (3). A consideration of various environments within which the international hospitality firm operates. Organizational, financial, and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature. Prerequisite: HFT 3403, HFT 3503.

HFT 6257 Contemporary Issues in the Lodging Industry (3). Students will explore emerging issues that impact domestic and global lodging. Content analysis to identify and analyze relevant industry problems will be used.

HFT 6278 Timeshare Management (3). Course covers management, marketing, sales legislation, financing, and budgeting of timeshare and vacation ownership properties. Opportunity to gain AEI certification.

HFT 6280 Competitive Methods of Multinational Hospitality Companies (3). Course synthesizes theories and concepts of globalization, multinational strategy and international business studies and applies them in the analysis of multinational hospitality companies.

HFT 6296 Strategic Management for Hospitality and Tourism (3). Developing competitive advantage in the Hospitality Industry including a strategy project where an incumbent faces off against a new entrant. Team will develop strategic business plans. Prerequisite: HFT 4464, HFT 3503, and computer literacy.

HFT 6297 Seminar in Management Methods (3). Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HFT 6299 Case Studies in Hospitality Management (3). Case studies are used to analyze and integrate the various disciplines of hospitality management and the visitor industry. A critical attitude toward all administrative and management thought is encouraged.

HFT 6325 Hospitality Facilities Engineering and Management (3). Hospitality facilities management from value-oriented system engineering perspective emphasizing management responsibilities for efficiency in building design, operations and utilities systems. Prerequisites: HFT 3403.

HFT 6346 Design and Planning of Restaurants and Hotels (3). Advanced level of study of all aspects considered in designing and planning a restaurant or hotel. Includes lectures, case studies, and laboratory drawing exercises. Scheduling and cost controls considered. Prerequisite: HFT 3263

HFT 6404 Non Commercial and Contract Foodservice Management (3). Advanced management of foodservice operations in noncommercial facilities, self operated and contract managed. Includes business and industry, health care, campus dining, correctional, and foodservice vending.

HFT 6446 Hospitality Enterprise Technologies (3). Advanced course in information technology in the hospitality industry. Includes study of ERP software and data. Prerequisites: HFT 3423 or permission of instructor.

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 permission of instructor.

HFT 6448 Advanced Hospitality
Computer Applications (3). Importing
financial data, international features,
linking workbooks, mapping
geographical data, scenario manager,
goal seeking and optimization
problems will be covered. Prerequisites: HFT 3423 or equivalent.

HFT 6472 Feasibility Studies for Tourism Projects (3). In-depth study of the tools and techniques available for evaluating financial feasibility and cost-benefit analysis of tourism projects. Prerequisites: ECO 2013 and

HFT 4465 Financial Analysis for Tourism.

HFT 6476 Feasibility Studles for the Hospitality Industry (3). In-depth study of the tools and techniques available for evaluating financial feasibility of a hospitality investment. Feasibility study required. Prerequisites: HFT 3503 and HFT 4464.

HFT 6477 Financial Management for the Hospitality Industry (3). A study of financial management and its application in the Hospitality Industry. Topics include capital investment analysis, mergers and current financial issues. Emphasis is placed on maximizing shareholder value. Prerequisite: HFT 4464, HFT 4474, and computer literacy.

HFT 6478 Restaurant Development (3). A study of the procedures to research and develop a restaurant from concept to opening. Emphasis will be on market research, site development, financial feasibility, and the formulation of an operating plan for an individual restaurant. Prerequisites: HFT 3503 and HFT 4464.

HFT 6486 Investment Analysis for the Hospitality Industry (3). Advanced investment methods and opportunities with emphasis on securities of the hospitality industry, financing techniques, syndication, negotiations. Prerequisites: HFT 6446 and HFT 4464.

HFT 6494 Restaurant Information Systems (3). An in-depth study of principles relating to use of computer systems in the restaurant and foodservice industry. The student is required to implement a simulated restaurant on computer systems. This simulation includes personnel files, daily management, menu explosion and analysis, and inventory tracking. A research project will be assigned. Prerequisite: HFT 3423 or HFT 6446.

HFT 6507 Tourism Marketing on the Internet (3). An in-depth study of Internet Web site Hosting for tourism managers, including a detailed examination of the current practices of online tourism marketing and tourism destination management systems. Prerequisite: HFT 3503, HFT 6555.

HFT 6525 Sales Tactics for Hospitality Industry (3). Advanced course investigating sales tactics and procedures used in hospitality sales environment. Practical application role

plays and skill rehearsals used. Prerequisite: HFT 3503.

HFT 6526 Sales Management for the Hospitality Industry (3). Analyzes strategic processes for competitive sales management in hospitality industry. Uses critical thinking models, decision-making simulations and field operation assessments for managing sales function. Prerequisite: HFT 3503.

HFT 6555 e-Commerce for the Hospitality Industry (3). Planning and managing e-Commerce for hospitality global distribution systems, including major opportunities, limitations, issues and risks from managerial perspectives. Prerequisite: HFT 3503 and computer literacy.

HFT 6562 Global Destination Marketing Organizations (3), An advanced study of the evolution and growth, mission, structure, funding, and roles of the different types of Destination Marketing Organizations worldwide. Prerequisites: HFT 4509 or equivalent.

HFT 6586 Research and Statistical Methods (3). A practical study of basic research and statistical methodology applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation. and methods of reporting are considered.

HFT 6596 Marketing Management (3). Team-work analysis and recommended solution of an actual marketing problem and development of a marketing plan for hospitality business. Prerequisite: HFT 3503 or equivalent.

HFT 6605 Legislation and the Hospitality Industry (3). An advanced study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment. Prerequisite: HFT 3603.

HFT 6607 Hospitality Real Estate Investment (3). Covers major concepts, principles, analytical methods and tools useful for making investment decisions regarding commercial hospitality real estate assets.

HFT 6697 Hospitality Law Seminar (3). New laws and their impact on the

hospitality industry are examined. Students research current legal issues and problems and explore the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603.

HFT 6704 Contemporary Issues in Tourism (3). An in-depth study of current issues and trends confronting the fast development of the tourism activity at national and international

HFT 6705 Management of Nature-Based Tourism (3). Exploration of research methods and findings related to eco-tourism. Review of effective management strategies for controlling nature-based tourism operations.

HFT 6706 Environmental Management Systems for Tourism (3). An indepth examination of the environmental cost of tourism development. The effective implementation of international models as well as environmental practices for sustainable tourism development will be studied.

HFT 6711 Tourism and Economics (3). Provides an in-depth examination of the Global-Tourism Market utilizing quantitative methods to measure and forecast the development of tourism as a strategic economic activity. Prerequisites: HFT 3403 and HFT 4464.

HFT 6712 Tourism Planning and Regional Development (3). An indepth examination of the process of identifying needs, objectives and strategies for tourism development. The formulation and evaluation of tourism policies and plans will be studied. Prerequisite: HFT 6476.

HFT 6715 Problem Solving for Travel and Hospitality (3). Practical discussion and exploration of issues pertaining to the operation and management in the travel and hospitality industry. The course provides creative problem solving solutions utilizing today's information technologies. Prerequisites: computer literacy and HFT 6507.

HFT 6756 Convention and Meeting Management (3). Advanced study of planning, arranging, marketing, implementing, and managing conventions and meetings. Prerequisite: HFT 3503.

HFT 6806 Recreational Foodservice Management (3). Advanced study of financial planning and operational methods used by recreational food service management companies at

stadiums, coliseums, arenas, convention centers, amusement parks, parimutuels, state and national parks, and other recreational areas.

HFT 6863 World of Wine and Food (3). An intensive study of wines from around the world and how they pair with foods. Guest chefs will prepare tapa size portions of food to be paired with local and specific wines.

HFT 6876 Emerging Topics in Food and Beverage (3). An in-depth study of current issues and topics confronting the food and beverage industry and how they impact future business practices. Management implications addressed.

HFT 6908 Directed Study in Tourism Studies (3). An opportunity for individuals interested in various aspects of planning, development, marketing, management and research in tourism to work on their own under the close supervision of an advisor. Prerequisite: Permission of the instructor and if the directed study is of a research nature, HFT 6586 is required.

HFT 6916 Hospitality Industry Research Project (3-9). An individualized business research-oriented project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course.

HFT 6946 Graduate Internship (0-3). Structured hospitality practical training work experience involving training program and job rotations not previously performed. Ten week/300 hour minimum. Report and management project required. Prerequisite: Documented completion of 1000 hospitality related work hours of which at least 500 hours must be completed while enrolled at FIU. Permission of instruc-

School of Hospitality and Tourism Management

Dean Joseph J. West
Associate Dean Lee C. Dickson
Assistant Dean for
Academics Joan S. Remington

Associate Dean

Joan S. Remington Rocco M. Angelo

Faculty

Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean

Bellucci, Elio C., J.D. (Boston College), Professor, Law

Bouabdelah, Ahmed, Ph.D. (Laval University), Visiting Assistant Professor, Tourism

Carter, Cheryl M., M.S. (Florida International University), Instructor, Tourism

Cassldy, Patrick J., B.S. (Florida International University), Instructor, Wine Technology

Darby, Percival, M.S. (Florida International University), Assistant Professor, Management

De Chabert-Rios, Jacqueline, Ph.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Food and Beverage Management

Del Risco, M. Nancy, Ph.D. (University of Paris), Lecturer, Director, Tourism Studies

Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management and Marketing and Associate Dean

Escoffler, Marcel R., M.S. (Florida International University), Associate Professor, Management

Goffe, Peter, J.D. (University of Miami), Associate Professor, Marketing and Director, Switzerland Program

Hagenmeyer, Fritz, G., M.A. (Cornell University), Professor, Hotel Engineering

Hansen, William M., M.S. (Florida International University), Instructor, Club and Catering Management

Ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Professor, Accounting and Finance

Kotschevar, Lendal H., Ph.D. (Columbia University), Professor Emeritus

Lattin, Gerald W., Ph.D. (Cornell University), Professor Emeritus Marshall, Anthony G., J.D. (Syracuse University), Dean Emeritus

Moli, Steven V., M.S. (Florida

International University), Associate Professor, Management and Director, Graduate Program

Moncarz, Elisa S., B.B.A., C.P.A. (Baruch College), Professor, Accounting and Finance

Moran, Michael J., B.S. (Florida International University), Instructor, Food Management

Morgan, William J., Jr., Ph.D. (Cornell University), Professor Emeritus

Newman, Diann R., Ed.D. (Nova Southeastern University), Instructor and Academic Advisor, Human Relations

O'Brien, William G., M.S. (Florida International University), Associate Professor, Information Systems Management

Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management and Director, The Center for Tourism and Technology

Portocarrero, Nestor, B.B.A. C.P.A. (University of Miami), Professor, Accounting and Finance

Probst, Roger D., B.S. (University of New Haven), Instructor, Food Management

Quain, William J., Ph.D. (University of New Orleans), Professor, Management and Marketing

Remington, Joan S., J.D. (Willamette College), Instructor, Tourism and Marketing, Assistant Dean for Academics, Director, Career Development; Director, The Institute for Hospitality and Tourism Education and Research

Robson, J. Kevin, M.S. (Florida International University), Associate Professor, Food Management

Rosellini, Donald G., J.D. (Northwestern University), Lecturer Management

Rutkowski, Kennard J., B.S. (Florida International University), Instructor, Foodservice Management and Academic Advisor

Talty, David M., B.S. (Florida State University), Instructor, Management.

Tanke, Mary L., Ph.D. (Purdue University), Associate Professor, Management

West, Joseph J., Ph.D. (Virginia Polytechnic Institute and State University), Professor, Management and Dean

Zhao, Jinlin, Ph.D. (Virginia Polytechnic Institute and State University), Associate Professor, Management

	Graduate Catalog
108	Graduate Cataron

School of Journalism and Mass Communication

School of Journalism and Mass Communication

Lillian Lodge Kopenhaver, Professor and Interim Dean

Catherine B. Ahles, Associate Professor

Liza Alexander, Coordinator of Student Services

Margo Berman, Associate Professor Cheryl Berry, Associate Professor Yolanda Cal, Assistant Professor Humberto Delgado, Associate

Professor

Mario Diament, Associate Professor Fernando Figueredo, Visiting Associate Professor

Hugh Gladwin, Director, Institute for Public Opinion Research

Ann Goraczko, Coordinator, Institute for Public Opinion Research

Charles Green, Assistant Manager and Director, International Media Center

Kevin Hall, Associate Professor J. Arthur Heise, Professor and Founding Dean Emeritus

Manny Lopez, Coordinator of Student Services

David L. Martinson, Professor Michael McQueen, Associate

Professor and Chairperson,
Department of Journalism and
Broadcasting

Aldo Picini, Coordinator of Student Services

Teresa Ponte, Associate Professor Allan Richards, Instructor Patricia B. Rose, Professor and

Chairperson, Department of Advertising and Public Relations Michael Sheerin, Visiting Assistant Professor

Janas Sinclair, Assistant Professor

Don Sneed, Professor
Carlos Suris, Director, Student

Resource Center
Saul Sztam. Assistant Dean and

Director of Student Services

Lorna Veraldi, Associate Professor

Lorna Veraldi, Associate Professor Mercedes Vigon, Visiting Assistant Professor

John Virtue, Deputy Director, International Media Center

Master of Science in Mass Communication

The School of Journalism and Mass Communication is fully accredited by the Accrediting Council on Education in Journalism and Mass Communications. Only 25 percent of all Schools of Journalism and Mass Communication in the United States are fully accredited. The graduate program of the School of Journalism and Mass Communication offers professional education leading to the M.S. in Mass Communication with current specializations in student media advising, integrated communications: advertising and public relations, and Spanishlanguage journalism. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates' abilities to work in the mass communication professions.

Admission Requirements

To be eligible for admission to the graduate program, applicants must meet the following requirements:

- All applicants must have a bachelor's degree from a regionally accredited college or university.
- All candidates must show promise of success in graduate studies. The faculty will consider the following criteria in making this determination:

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 approval from the program coordinator in certain cases – the Graduate Management Admission Test (GMAT) is acceptable. Passing score for the GRE is at least 1000 total (verbal and math combined), with a minimum of 500 on the verbal. The appropriate scores must be taken within five years before the term of application. Scores within ten years are accepted for applicants who previously earned a graduate level degree from an accredited institution.

- Students applying to the Spanishlanguage Journalism program must take the PAEG. Minimum passing score for the PAEG is 525.
- A detailed statement explaining why the applicant wants to pursue the M.S. in Mass Communication.
- Students must submit a profession resume.
- 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). A minimum score of 500 on the TOEFL is acceptable for students applying into the Spanish-language master's program. Candidates who have passed the TOEFL more than two years before they apply for admission to the program have to repeat the test with the required score.

Application Procedures

A student applying for admission to the graduate program must:

- 1. Submit an application for admission to the University Admissions Office.
- 2. Have two official copies of transcripts from all colleges or universities attended sent to the Admissions Office. (Copies submitted by applicants will be rejected.)
- Submit appropriate scores and documents 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 and submit all required scores and paperwork.

Degree requirements

Plan of Study/Commencement of Program

Upon admission to the graduate program in mass communication, each student will be assigned a faculty advisor by the appropriate department chair. In most cases, this will be the director of the appropriate graduate program. The advisor will be responsible for developing the student's plan of study, requesting applicable transfer of credit where appropriate, monitoring the student's academic progress, and ensuring the fulfillment of the requirements for the master's degree by completing the student's Program of Studies with the student. This will also include a timetable for completion of the work. Any changes in the plan must be approved by the faculty advisor and the appropriate chairperson. It is also the faculty advisor's responsibility to complete a Graduate GPA Course Inclusion Form for classes that are part of the master's program but were taken prior to the student's full admission and/or are lower division classes.

In addition to the development of a plan of study, the advisor must evaluate any deficiencies including, but not limited to the following areas which may require additional course work.

Competency in Statistics

Competence in the fundamentals of statistics is required of all graduate students. In order to register for MMC 5440 (Applied Research Methods in Mass Media) students demonstrate a knowledge of statistics in one of three ways: by having taken a course in statistics within the last three years, passing an examination in the subject, or taking a special seminar offered through the College of Continuing and Professional Studies simultaneously with the commencement of the graduate research course.

Writing Proficiency

Students in English-language master's programs must pass a proficiency exam in English, which will include grammar and syntax. For all students admitted to the program and commencing courses prior to Fall 2003, this examination consists of passing the MMC 3104C writing test with a 70 or better. For students admitted to the program and commencing courses Fall 2003 or after, this test will be either an 85 or better on the MMC 3104C or an equivalent score on a programapproved standardized test. Achieving a passing score on this test is a prerequisite for registration in MMC 6950, Professional Project.

Students in the Spanish-language master's program must pass a proficiency exam in Spanish, which will include grammar and syntax. The test will be taken on campus at the beginning of the program of study. Passing the exam is a graduation requirement. Students who do not pass the exam will be recommended to enroll in additional courses or provided additional review materials to assist them. Other opportunities to take the exam will be provided each semester.

Professional Experience

Professional experience in a field directly related to the specialization is an advantage. Applicants without such professional experience may be required to complete up to 9 credits of additional undergraduate course work and/or to complete an internship with a professional organization. After an

interview with the applicant, the student's faculty advisor will determine the amount of undergraduate work and the undergraduate courses to be completed.

Transfer Credit

Students may petition the appropriate advisor to transfer up to six hours of graduate credit toward the degree. To be approved for transfer, the courses must have been previously taken at a regionally accredited college or university; the student's advisor must judge the courses relevant to the student's plan of study; the student must not have used the credits toward another degree; and the student must have earned a 'B' or higher in the courses. No transfer courses will substitute for skills courses in any area of specialization in the SJMC master's program. All transfer credit must have been completed within the six-year period preceding the date the degree is granted.

Time Limit

All work applicable to the degree, including transfer credit, must be completed within six years.

Grades

Students must maintain a minimum GPA of 3.0 in all courses required for the degree. No more than two 'C' grades will be allowed in computing that 3.0 GPA.

Professional Project, Thesis

Students complete a professional project in their areas of specialization. Work on the project will generally be taken during the final semester. Projects will be graded by the student's graduate committee. Students must receive a 'B' or higher on the project for it to be accepted. Students may also opt to do a thesis; grade requirements are the same.

Required Courses

To earn the M.S. in Mass Communication, students must meet the following requirements:

- 1. Students must take at least 36 hours of acceptable graduate credit. Of those hours, all courses in the SJMC taken toward graduation must be at the graduate level.
- 2. At least 27 hours must be in School of Journalism and Mass Communication courses.

Student Media Advising

Designed primarily for journalism teachers and/or student media advisors on all levels, the program will train teachers/advisors or those aspiring to the profession in areas related to everyday work.

Core Curriculum

VIC 5205

All students must take the following core courses: MMC 6402 Theories of Mass Communication 3 MMC 5440 Applied Research Methods in the Mass Media Professional Project 1-3 MMC 6950 In addition to the core courses. students in the student media advising specialization must take the following courses: JOU 5806 Student Media Advising 3 Ethical and Legal MMC 5207 Foundations of the Student Press 3 MMC 6635 Contemporary Issues in

Design Students must also take two additional three-credit graduate courses in the School of Journalism and Mass Communication in an appropriate area of emphasis. Courses must be approved by the student's advisor.

Mass Communication 3

Trends in Graphics and

Nine hours must be in a field of concentration outside the School of Journalism and Mass Communication. A minimum of three of those credits have to be at the graduate level (5000 or 6000 level).

Integrated Communications: Advertising and Public Relations (ICAP)

This evening and Saturday morning ICAP program is designed to give students a general background in strategic communications and to help them prepare for advancement in advertising, public relations and integrated communications careers - whether corporate, agency or non-profit. It is designed for students who work full time. While a few students take nine credit hours per semester, many take only three or six.

For additional information about the ICAP program, please contact the program coordinator at 305-919-5625 or email SJMC@F1U.EDU

Core Curriculum (9 credits) All students must take the following core courses: MMC 6402 Theories of Mass Communication 3 MMC 5440 Applied Research Methods in the Mass Media 3 MMC 6950 Professional Project 3 In addition to core courses, ICAP students must take the following program courses: (27 credits) ADV 6805C Advertising and Public Relations Creative Strategy 3 MMC 6416 The Literature of Integrated Communications MMC 6635 Contemporary Issues in Mass Communcation **PUR 5602** Integrated Communications Proseminar 0 **PUR 5406** Multi-Cultural Communications PUR 5607 Advertising and Public

Seminar Plus: Two (3) credit elective courses chosen in conjunction with the graduate coordinator in marketing management behavior theory.

Integrated Communications: Account Planning

PUR 5806

PUR 6935

Relations Management 3

Advanced Integrated Communications

Integrated Communications: Advertising and Public Relations - Creative Track

The ICAP creative program is a rigorous, tuition-plus-fee program that is limited to a select number of qualified students who have shown above average creative potential and wish to combine a theoretical knowledge of communications with a more in-depth exposure to creative concepts. A portfolio review is required for admission.

The ICAP Creative Track incorporates these unique features:

- · The Advice of the Miami Ad School · Dialogue with top creative personnel
- Access to Miami Ad School guest speakers and facilities
- · Five semesters of courses, offered on a lock-step basis
- . The option of a semester away For more detailed information about the ICAP Creative Track please contact

ľ	nunication		
	the program of	lirector at 305-919-5520 MC@FIU.EDU)
	Core Curricu	lum (9 credits)	
	All students m	ust take the following	
	MMC 6402	Theories of Mass	
		Communication	3
	MMC 5440	Applied Research	
		Methods in the Mass	
		Media	3
	MMC 6950	Professional Project	3
	In addition	to core courses, ICAF	
	students mus		5
		es: (27 credits)	
	ADV 6805C	Advertising and Public	
		Relations Creative	
		Strategy	3
	PUR 5602	Integrated	
		Communications	
		Proseminar	0
	PUR 5406	Multi-Cultural	
		Communications	3
	PUR 5806	Integrated Advertising	
		and Public Relations	_
		Planning and Evaluation	13
	PUR 6935	Advanced Integrated	
		Communications	
		Seminar	3
	VIC 5205	Trends in Graphics &	
		Design	3
	ADV 6503	Seminar in Advanced	
		Creativity	12
	Spanish-La	nguage Journalism	ı
	with Emph	asis in	
	-	ve Reporting	
	_		
		Requirements (all	
	courses are to	aught in Spanish)	
	Course Offe	rings (36 credits)	
	First Semester		
		Theories of Mass	

Theories of Mass MMC 6402 Communication JOU 6193 Thinking Like a Writer 3 MMC 5440 Applied Research Methods JOU 6107 Advanced Public Affairs Reporting (Prerequisite: JOU

	6193)	
Second Sem	ester	
JOU 6118	Investigative Reporting	
	Techniques	3
	(Prereq: JOU 6193 /	
	MMC 5440)	
JOU 6119	Advanced Print News	
	Reporting	3
	(Prereq: JOU 6193)	
ECS 7405	Economics of Latin	
	America	3
RTV 6309	Advanced Broadcast	
	News Writing	3
	(Pre/co-requisite: MMC	:
	4940)	

Third Semes	ter	
MMC 6635	Contemporary Issues in	1
	Mass Communication	3
INR 6007	Seminar in Internationa	1
	Politics	3
VIC 6005	The Language of Visua	1
	Communication	3
MMC 6950	Mass Communication	
	Professional Project	3
		r)
	MMC 6635 INR 6007 VIC 6005	Mass Communication INR 6007 Seminar in Internationa Politics VIC 6005 The Language of Visua Communication

Certificate Programs Student Media Advising

This professional certificate program is designed primarily for journalism teachers and for student media advisors on all levels and for those aspiring to the profession. This program will satisfy the requirements of the certification, re-certification or incentive credits for current public school teachers in the field. The Certificate in Student Media Advising requires 15 credits to be taken as follows:

Required Co	urses: (9 credits)	
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 Cou	rses (6 credits)	

Students must take two of the following:

MMC 6402	Theories of Mass
	Communication :
MMC 6635	Contemporary Issues in
	Mass Communication
PUR 4101	Publications Editing and
	Design

other courses upon approval of the faculty advisor.

Integrated Communications

Advertising and Public Relations The objective of the Integrated Communications: Advertising and Public Relations certificate is to train interested community professionals in up-to-date strategies and methodologies in integrated communications: advertising and public relations

Required Con	urses: (9 credits)	
ADV 6805C	Advertising and Public	
•	Relations Creative	
	Strategy	3
PUR 5602	Integrated	
	Communications	

Proseminar

PUR 5607	Advertising and Public Relations Management	3
PUR 5806	Integrated Advertising and Public Relations.	•
	Planning and Evaluatio	n 3
Plus any two	of the following: (6	
credits)		
MMC 5440	Applied Research	
	Methods in the Mass	
	Media	3
MMC 6635	Contemporary Issues in	Ω
	Mass Communication	3
PUR 5406	Multi-Cultural	
	Communication	3
PUR 6935	Advanced Integrated	
	Communications	
	Seminar	3

Spanish Language Journalism

The objective of the Professional Certificate in Spanish Language Journalism is to develop skills and techniques that will allow working journalists to be more responsive to the demands of their profession as well as the opportunity to become more familiar with Spanish-language journalism in general. The focus of the program will be on reading, writing, and thinking. All courses will be taught in Spanish. Some courses may be offered off-campus.

Interested students should contact the department for additional information and course requirements.

Course Descriptions Definition of Prefixes

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

All courses required for the degree will be offered at least once during the term of the student's enrollment.

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

ADV 6503 Seminar in Advanced Creativity (3). Theoretical and practical application of variable topics including creative problem solving, design, web advertising, pop culture, and IMC tools. Progressive level of difficulty. Prerequisite: Permission of the instructor.

ADV 6805C Advertising and Public Relations Creative Strategy (3). Focuses on the conceptualization of breakthrough strategies and their application to all integrated communication tools. Prerequisite: PUR 5806. (Offered at least once a year).

JOU 5806 Student Media Advising (3). Designed to assist teachers and advisors of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks, and magazines, as well as the legal and ethical considerations facing today's advisor. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction. (Offered at least once a year).

JOU 6107 Advanced Public Affairs Reporting (3). A journalist's examination of the judicial system, from police headquarters to the courtroom. Prerequisite: Graduate standing.

JOU 6118 Investigative Reporting Techniques (3). The practice of investigative reporting techniques emphasizing problem solving in developing stories from conception to finished product. Prerequisites: JOU 6193 and MMC 5440.

JOU 6119 Advanced Print News Reporting (3). Traditional and innovative reporting techniques, from searching archives and interviewing, to manipulating databases and scouring the Internet. Students also wrestle with legal, ethical dilemmas. Prerequisite: JOU 6193.

JOU 6125 The Cyberjournalist (3). Students progress beyond a simple knowledge of how to use electronic databases into the realm of mining and manipulating vast data pools such as the U.S. Census.

JOU 6183 Judicial System Reporting (3).

JOU 6185 Covering the City I (3). Basic reporting. Students cover breaking stories against daily dealines. Readings/viewings are aimed at helping students analyze and compare a wide range of media. Prerequisite: Graduate standing.

JOU 6186 Coving the City 11 (3). Theme coverage of forces (economics, politics, etc.) that shape cities. Enterprise reporting with significance and context, and its legal and ethical implications. Includes municipal-budget analysis. Readings/viewings: Original works or original thinkers.

JOU 6187 Covering the City III (3). Students produce the prototype for a city magazine, from start to finish. Readings: a broad sampling of magazines

JOU 6193 Thinking Like a Writer (3). Principles and techniques that are common to good writing, regardless of the medium. Students learn to read, observe and think as writers.

JOU 6194 Thinking Like a Writer II (3). Continuation of Ist writing course, with emphasis on elegance at sentence level. Also explores interrelationships of story telling, editing and design. Readings: Poynter anthology.

JOU 6196 Thinking Like a Writer III (3). Continuation of 1st and 2rd semester writing courses, with empahsis on producing the long piece. Direct support of the writing of Professional Project. Readings/viewings: Pulitzer, Emmy winners.

JOU 6931 Seminar on Special Topics (1-3). Instruction in specialized areas of journalism. Prerequisite: Graduate standing

MMC 4940 Media Practicum (0-3). Structured field-work experience in media environment.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines cthical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both. (Offered at least once a year).

MMC 5440 Applied Research Methods in the Mass Media (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies. Students will conduct an original proprietary study. Prerequisite: STA 3013 or equivalent. Permission of the instructor. (Offered at least once a year).

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication. Prerequisite: Permission of the instructor. (Offered at least once a year).

MMC 6402 Theories of Mass Communication (3). Examines theories and processes of mass communication as well as media responsibility to society and the social and ethical responsibility of communicators. (Offered at least once a year). Prerequisite: Permission of the Instructor.

MMC 6416 The Literature of Integrated Communication (3). Survey of current and important literature in the field of integrated communications and its importance and application for ICAP managers. Prerequisite: Permission of the Instructor.

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: Permission of the instructor. (Offered at least once a year).

MMC 6950 Mass Communication Professional Project (1-3). The professional project is designed to demonstrate the student's excellence in an area of communication study. Must be completed within one semester. Prerequisites: Completion of 27 credit hours and Permission of the instructor.

MMC 6951C Professional Project 11 (1). Demonstrates the student's excellence in an area of communication study. Must be taken if student doesn't complete MMC 6950 in one semester. Prerequisite: MMC 6950.

PUR 5406 Multi-Cultural Communications (3). Explores the multi-cultural dimensions of communications with diverse audiences both inter-nationally and within the United States. Prerequisite: Permission of the Instruc-

PUR 5602 Integrated Communications Proseminar (0). Lectures/discussion by industry professionals and faculty on various components and applications of Intergrated Communications: Advertising & Public Relations (ICAP).

PUR 5607 Advertising and Public Relations Management (3). Operations and objectives of integrated advertising and public relations activities and programs utilizing case studies on budgeting, ethics, media planning/relations, promotions and direct marketing. Prerequisite: PUR 5806.

PUR 5806 Integrated Communications: Account Pianning (3). Advanced study in developing, planning and evaluating strategic integrated communications programs and campaigns. Prerequisite: Permission of the instructor. (Offered at least once a year).

PUR 6935 Advanced Integrated Communications Seminar (3). A series of readings, discussions and presentations immerse students in contemporary issues in Advertising and Prerequisite: Public Relations. Permission of the instructor. (Offered at least once a year).

RTV 5806 Telecommunication Management Structures (3). Intensive study of telecommunication management problems, theory of same, solutions of same through practical application and examination of case studies. Prerequisite: Graduate stand-

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or Permission of the instructor.

RTV 5936 Seminar in New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate stand-

RTV 6309 Advanced Broadcast News Writing (3) Advanced instruction and practice in news writing, reporting and interviewing for broadcast media. Prerequisite: MMC 4940.

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

RTV 6468C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and postproduction of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

RTV 6937 Decision Making in Broadcast Journalism (3). The roles and ratings, research, visuals, technology and non-news management in

choice of news personnel, assignments, content and scheduling, analysis of legal and ethical implications. Prerequisite: Graduate standing.

VIC 5205 Trends in Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design. Prerequisite: Permission of the instructor. (Offered at least once a vear). (Supplies fee assessed).

VIC 6005 The Language of Visual Communication (3). A course that explores the relation between image and message in the media. Topics include the role and effects of imagery documentary news and presentations, ethics of visual messages and the impact of technology on visual ioumalism.

School of Journalism and Mass Communication

Interim

Dean Lillian Lodge Kopenhaver Chairperson, Advertising

and Public Relations

Patricia B. Rose

Chairperson,

Journalism and
Broadcasting Michael McQueen

Faculty

Ahles, Catherine B., M.B.A.

(Michigan State University), Associate Professor, Journalism and Mass Communication

Berman, Margo, M.M. (University of Miami), Associate Professor, Journalism and Mass Communication

Berry, Cheryl, M.S. (Northwestern University), Associate Professor, Journalism and Mass

Communication

Cal, Yolanda, Ph.D. (University of Texas at Austin), Assistant Professor, Journalism and Mass Communication

Delgado, Humherto, M.A. (Goddard College), Associate Professor, Journalism and Mass Communication

Diament, Mario, M.A. (Antioch College), Associate Professor. Journalism and Mass Communication

Figueredo, Fernando, M.BA. (Florida International University), Visiting Associate Professor

Gladwin, Hugh, Ph.D. (Stanford University), Director, Institute for Public Opinion Research

Goraczko, Ann, M.S. (Florida International University), Coordinator, Institute for Public Opinion Research

Green, Charles, B.A. (Christian International University), Assistant Professor and Director, International Media Center

Hall, Kevin, B.A. (Fordham University), Associate Professor, Journalism and Mass Communication

Heise, J. Arthur, Ph.D. (Syracuse University), Professor and Founding Dean Emeritus, Journalism and Mass Communication

Kopenhaver, Lillian Lodge, Ed.D. (Nova Southeastern University), Professor and Interim Dean, Journalism and Mass Communication

Martinson, David L., Ph.D.

(University of Minnesota), Professor, Journalism and Mass Communication

McQueen, Michael, M.A. (Florida Atlantic University), Associate Professor and Chairperson, Department of Journalism and Broadcasting, Journalism and Mass Communication

Ponte, Teresa, J.D. (Rutgers University School of Law), Associate Professor, Journalism and Mass Communication

Richards, Allan, B.A. (Queens College), Instructor, Journalism and Mass Communication

Rose, Patricia B., M.B.A. (University of Miami), Professor, and Chairperson, Department of Advertising and Public Relations, Journalism and Mass Communication

Sheerin, Michael, M.S. (Florida International University), Visiting Assistant Professor, Journalism and Mass Communication

Sinclair, Janas, Ph.D. (University of Florida), Assistant Professor, Journalism and Mass Communication

Sneed, Don, Ph.D. (Southern Illinois University), Professor, Journalism and Mass Communication

Suris, Carlos, M.L.S. (University of South Florida), Director, Student Resource Center, Journalism and Mass Communication

Veraldi, Lorna, J.D. (New York School of Law), Associate Professor, Journalism and Mass Communication

Vigon, Mercedes, M.A. (University of Miami), Visiting Assistant Professor, Journalism and Mass Communication

Virtue, John, B.A. (Carleton University), Deputy Director, International Media Center

Academic calendar, 3-7, 35 Academic records, 22, 34-35 Academic warning, probation and dismissal, 34 Accounting, Auditing, and Tax Studies, Center for, 58 Accounting, Master of, 17, 19, 187-Accounting, School of, 56, 188-189 Accreditation, 14 Faculty, 188 Accreditation of Graduate Programs, 14 ADA, See Americans with Disabilities Act (ADA) Addictions, See Social Work Adding classes, See Courses Administration and Staff, 50-53 Administration and Supervision of Vocational Education Master of Science, 17, 233-234 Admissions, 16, 21-23, 60, See Adult Education Master of Science, 17-18, 234 Adult Education and Human Resource Development Advanced Distributed Systems Engineering, Center for, 58 Advanced Materials Engineering Research Institute (AMERI), 284 Advanced Technology and Education, Center for, 58 Advertising and Public Relations, 411-412 Certificate, 20, 412-413 Affiliated students, See Classification of students African-New World Studies, 73-77 Certificate, 19, 170 Faculty, 73 Master of Arts, 17-19, 73 Aging, See also Gerontology; Social Work Center on, 58 National Policy and Resources

also Specific academic programs Doctor of Education, 18, 240-242 Center on Nutrition and, 59 Alternate Masters Degree Tracks, See Education, College of Alvah H. Chapman, Jr. Graduate School of Business, 56, 184-214 Americans with Disabilities Act (ADA), 39 Anthropology, See Sociology and Anthropology Application fee, See Fees Architecture, Master of, 17, 64-65 Architecture, School of, 17, 56, 64-Accreditation, 14 Faculty, 69

Art and Art History, 78-80 Accreditation, 14 Faculty, 78 Art Education Doctor of Education Specialty Track, 228 (K-12) Alternate Track Masters Program, 220 (K-12) Master in the Art of Teaching, 17 (K-12) Master of Science, 17 Master of Science, 220 The Art Museum, 39, 58, 60, See also Museum Studies Accreditation, 14 Arts and Sciences, College of, 17-19, 56, 72-181 Certificate Programs, 170-173 Faculty, 174-181 Asian Studies, Institute for, 58 Assistantships, See Financial Aid Athletics, 42-44, 60 Attendance policy, 35

R

The Beacon, 45

Bilingual Education Doctor of Educational Specialty Track, 231 Biological Sciences, 81-88 Biology Doctor of Philosophy, 17, 81-82 Master of Science, 17, 81 Biology Education (6-12) Alternate Track Masters Program, 220-221 Master in the Art of Teaching, 17 Biomedical Engineering, 289-292 Faculty, 289 Master of Science, 18, 289 Biomedical Engineering Institute, Biscayne Bay Campus, 13, 18 Bookstore, 60 Broward-Pines Center, 13, 18 Bursar/Cashiers, 60 **Business Administration** Doctor of Philosophy, 17, 19, 187 Doctor of Philosophy with Concentration in Marketing, Doctor of Philosophy with Finance Concentration, 191 Doctor of Philosophy with MIS Concentration, 189 Evening Master, 185-186 Executive Master, 19, 186 Global Executive MBA, 186 International Master, 17, 19, 186-187 Master of (MBA), 17-19, 185 Master with Concentration in Marketing, 194 Business Administration, College

of, 17-19, 56, 184-214 Accreditation, 14 Course Descriptions, 195-211 Faculty, 212-214 Mission Statement, 184

Campus Life, 39, 60 Campus Recreation, 42-44, 60 Candidacy, See Doctoral Degree requirements Cardiovascular Engineering Center (CVEC), 58, 284-285 Career Services, 39-40, 60 Catalog, See Academic catalog The Center for advanced Technology and Education (CATE), 285 Center for Diversity in Engineering, Centers and Institutes, 58-59 Certificate program requirements, Change of grade, See Grading Change of graduate degree program, 31 Chemistry, 89-93 Accreditation, 14 Doctor of Philosophy, 17, 90-91 Faculty, 89 Master of Science, 17, 19, 89-90 Chemistry Education (6-12) Alternate Track Masters Program, 221 Master in the Art of Teaching, 17 Child and Family Psychosocial Research Center, 58 Children and Families at Risk, Institute for, 58 Children's Creative Learning Center, 40 Civil and Environmental Engineering, 293-301 Civil Engineering Doctor of Philosophy, 18, 294-296 Master of Science, 18-19, 293 Classification of students, 30 Clinical Practice (Post-MSW), See Social Work Communication Sciences and Disorders, 359-361 Community College, Master of Science, 235

Comparative Sociology, See

Sociology, Comparative

Science, 18-19, 308

Computer Science

Faculty, 94

94-96

Computer Engineering, Master of

Doctor of Philosophy, 17, 94

Computer Science, School of, 56,

Master of Science, 17, 94

Accreditation, 14
Conflict Resolution and Consensus
Building
Certificate, 243–245
Faculty, 243
Construction Engineering &

Management (CEM)
Certificate, 304–305
Construction Management, 302

Accreditation, 14
Faculty, 302
Master of Science, 18–19, 302–

304
Continuing and Professional
Studies, College of (CAPS), 52,

Copy Center, 60 Corporate and Global Programs, Division of, 286

Counseling and Psychological Services Center, 40, 60 Counselor Education

Master of Science, 17, 247–248
Courses

Adding and Dropping, 32 Equivalencies, 54–55 Numbering system, 54–55 Reinstatement of, 26 Term offered, 34

Creative Writing, 97
Faculty, 97
Master of Fine Arts, 17–18, 97
Credit by examination, 22

Credit by examination, 33 Credit for non-college learning, 23 Credit Union, 60 Criminal Justice

Certificate, 393 Master of Science, 18–19, 370– 371

Cuban Research Institute, 58 Curriculum and Instruction, 219– 232

Doctor of Education, 18, 227–232 Doctor of Philosophy, 18 Educational Specialist (Ed.S), 17, 227

Faculty, 219

D

Deadlines for admissions, See Admissions Deadlines for fees, See Fees

Decision Sciences and Information
Systems, 190

Declaration and certification of finances, See International Students

Degree-seeking students, See Classification of students Dietetics and Nutrition, 340–343

Accreditation, 14 Doctor of Philosophy, 18, 341 Faculty, 340

Master of Science, 18-19, 340

Disability Services for Students, Office of, 27, 39–41 Dissertation requirement. See

Doctoral Degree requirements
Diversity in Engineering, Center for,

Doctoral Degree requirements, 31
Doctoral/Research UniversityExtensive Status. 11

Dropping classes, See Courses

\mathbb{E}

Early Childhood Education Doctor of Education Specialty Track, 228–229

Master of Science, 17, 224 Earth Sciences, 98–103

Doctor of Philosophy, 17 Faculty, 98 Master of Science, 17, 19

Economic Research and Education, Center for, 58

Economics, 104–108
Doctor of Philosophy, 17, 105
Faculty, 104

Master of Arts, 17, 19, 104–105 Education, College of, 17–19, 56,

216–280 Accreditation, 14 Courses, 257–277

Faculty, 278–280 Fingerprint Requirement, 218

Education, Doctor of, 227–228
Educational Administration and

Supervision Doctor of Education, 18, 242–243

Educational and Psychological Studies, 246–252

Educational Leadership Certificate, 19, 243

Educational Specialist (Ed.S.), 17, 239

Master of Science, 17-18, 234-235

Educational Leadership and Policy Studies, 233–245

Doctor of Education, 239–243 Faculty, 233

Educational Psychology Doctor of Education Cognate, 252

Educational Research Center for Child Development, 40

Elderly, See Social Work
Electric Power Engineering and
Management

Certificate, 310-311

Electrical and Computer Engineering, 307–315 Electrical Engineering

Doctor of Philosophy, 18, 309–

Master of Science, 18–19, 307 Elementary Education Doctor of Education Specialty Track, 229

Master in the Art of Teaching, 17 Master of Science, 17, 224 Emotional Disturbance Certificate.

19 Employment, See Human

Resources
Energy and Technology of the

Americas, Center for, 58
Engineering, College of, 18–19, 56.

282–336 Accreditation, 14 Corporate and Global Programs, 282

Distance Learning Education (FEEDS), 282

Faculty, 282, 334–336 Master of Science, 282 Research and Development Centers, 284–288

Engineering, Doctor of Philosophy, 282

Engineering Information Center (EIC), 286–287

Engineering Management, Master of Science, 18–19, 318–319

English, 109–110 Faculty, 109

Master of Arts, 17-18, 105

English Education

(6-12)/ESOL Alternate Track Masters Program, 221 (6-12) Master in the Art of

Teaching, 17 (6-12) Master of Science, 17

Doctor of Education Specialty
Track, 229
Master of Science, 225

English Language Institute, 58
Enrollment certification, See
Veterans

Environmental and Urban Systems, Master of Science, 17–18, 293 Environmental Engineering, Master

of Science, 18, 293 Environmental Health Certificate,

20, 358, 395 Environmental Studies, 111–113

Faculty, 111
Master of Science, 17, 19, 111–

112
Epidemiology Certificate, 358, 395
Equal Opportunity Programs, 39,

Equal Opportunity Programs, 39, 41 ESOL Add-on Endorsement, 232,

See also English Education (6-12)/ESOL; Teaching English to Speakers of Other

Languages (TESOL)
Evening and Weekend degree

programs, 19
Exceptional Student Education,

Doctor of Education, 18, 251–252 Executive Masters Track, 403 Exercise and Sports Sciences, Master of Science, 17, 253–255

F

Family and Consumer Sciences Education, See Home Economics Education; Vocational Home **Economics Education** Family-Focused Health Care Across Cultures Certificate, 365 Fee liability and payments, See Fees Fee waivers, 25 FEEDS External Programs, 287 Fees. 25-27 International students, 22 Fellowship programs, See Financial Final grades, See Grading Finance, 191-192 Faculty, 191 Master of Science, 17, 19, 187, 191 Financial Aid, 16, 25, 29, 60 Fitness Center, 60 Florida - Caribbean Institute, 58 Florida - Mexico Institute, 58 Florida Center for Analytical Electron Microscopy, 58 Florida Engineering Education Delivery Systems (FEEDS), See Engineering College of Forensic Research, International Institute, 58 Forensic Science Faculty, 114 Master of Science, 17, 19, 114 Forgiveness policy, 33 French Education Alternate Track Masters Program, 221-222 (K-12) Master in the Art of Teaching, 17 Full-time enrollment, See Admissions Future Aerospace Science and **Technology Center for Space** Cryoelectronics (FAST), 58,

G

287

Geographic Information Systems, Certificate, 19, 170–171 Geology Doctor of Philosophy, 99 Master of Science, 98–99 Gerontology, See also Aging; Social Work Health Services Administration Certificate, 20, 393 Government, Institute of, 58 Grading, 33–34 Graduate admissions, See Admissions Graduate assistantships, See Financial Aid Graduate Certificate programs, See Certificate program requirements Graduate Certificate students, See Classification of students Graduate School, 16, 30–37, 57 Graduate Students Association, 16, 41 Graduation, 34, 60, See also Specific academic programs Green Library, 12, 46–47

Health, Physical Education and

Recreation, 253-256

H

Health, School of, 56, 339 Health and Urban Affairs, College of, 18-20, 57, 338-399 Certificate Programs, 393-396 Faculty, 338, 397-399 Health Care and Wellness Center, 41-42, 60 Health Information Systems, Accreditation, 14 Health Occupations Education Certificate, 19 Health Promotion Certificate, 20, 357-358 Health Research and Policy, Center for. 58 Health Serves Administration Certificate in Gerontology, 393 Health Services, Master of, 374-375 Health Services Administration, 374-378 Accreditation, 14 Certificate, 20, 394 Faculty, 374 Health Services Administration, Master of, 18-19, 371 Juris Doctor Joint Degree Program, 375-376 Hemispheric Center for Environmental Technology, 58 High Performance Database Research Center, 58 Higher Education Doctor of Education, 18 Master of Science, 235-236 History, 115-119 Doctor of Philosophy, 17, 19, 116-118 Faculty, 115 Master of Arts, 17, 115-116 HIV/AIDS Policy, 42 Home Economics Education, Master of Science, 17, 236 Hospitality and Tourism Education and Research, Institute for, 58 Hospitality and Tourism Management, School of, 18, 56, 402-407

Hospitality Management, Master of Science, 18, 403 Housing, 12, 27, 42, 60 Human Resource Development Doctor of Education, 240–242 Master of Science, 17–18, 234 Human Resource Policy and Management Certificate, 20 Human Resources, 42 Human Resources Track, See Management, Master of Science Hurricane, International Center, 58

Ι

Immunization, 32 Incomplete grades, See Grading Industrial and Systems Engineering, 316-323 Doctor of Philosophy, 18, 320-321 Faculty, 316 Master of Science, 17-19 Industrial Engineering, Master of Science, 316-318 Information Systems, Master of Science, 19 Information Technology in Civil Engineering Certificate, 296 Instructional Leadership Doctor of Education Specialty Track, 229-230 Integrated Communications, See Journalism and Mass Communication, School of Intercollegiate Athletics, See Athletics Intercultural Dance and Music Institute, 58 Intercultural Institute for Educational Initiatives, 58 Interdisciplinary courses, 72 International and Intercultural Development Education Doctor of Education Specialist Track, 229 International Business, Master of, See Business Administration International Business Education and Research, Center for, 58 International Development Education, Master of Science, 17, 236-237 International Media Center, 58 International Relations, 120-123 Doctor of Philosophy, 17, 120-121 Faculty, 120 International Student Exchange Program, 44

International students, See

International Students and Scholar

International Studies, Master of

Admissions

Services, 44



Jack D. Gordon Institute for Public Policy and Citizenship Studies, Jerome Bain Real Estate Institute. Joint Center for Environmental and Urban Problems, 58 Journalism and Mass Communication, School of, 18-20, 57, 410-415 Accreditation, 14 Faculty, 410, 415 Integrated communications, 411-413 Judaic and Near Eastern Studies, Institute for, 58 Justice, Center for Administration of. 58 Justice Administration and Policy Making Certificate, 20

K

Knight Ridder Center for Excellence in Management, 58

L

Labor Research and Studies, Center for, 59 Landscape Architecture Accreditation, 14 Certificate, 66 Landscape Architecture, Master of, 17, 65-68 Late adds or drops of classes, See Courses Late fee, See Fees Latin American and Caribbean Center, 59 Latin American and Caribbean Studies, 124-126 Certificate, 19, 171 Master of Arts, 17, 124-125 Law, College of, 57 Juris Doctor/Master of Health Services Administration Joint Degree Program, 375-376 Juris Doctor/Master of Public Administration Joint Degree program, 381-382 Law and Criminal Justice Certificate, 20, 393 Learning Technologies Doctor of Educational Specialty Track, 230 Lehman Center for Transportation Research, 59, 287

Liberal Studies, 127
Faculty, 127
Master of Arts, 17, 19, 127
Library, 60, See also Fees; Green
Library
Library Building at Biscayne Bay
Campus, 46–47
Linguistics, 128–130
Faculty, 128
Master of Arts, 17, 128

M

Management Master of Science, 187 Master of Science with Human Resources Track, 193 Management and International Business, 193 Management Development, Center for, 59 Management Information Systems, Master of Science, 17, 187, 189 Manufacturing Research Center, 59, 287-288 Marketing, 194 Mass Communication, Master of Science, 18-19, 410-411 Masters Degree requirements, 30 Materials Science and Engineering (MSMSE) Master of Science, 326-328 Mathematical Sciences, 17 Master of Science, 131 Mathematics, 131-132 Faculty, 131 Master of Science, 19 Mathematics Education (6-12) Alternate Track Masters Degree Program, 222 (6-12) Master in the Art of Teaching, 17 Doctor of Education Specialty Track, 231 (K-12) Master of Sciences, 17 Master of Science, 225 Matter at Extreme Conditions. Center for the Study of, 59, 286 MBA, See Business Administration, Master of (MBA) Mechanical and Materials Engineering, 324-333 Mechanical Engineering Doctor of Philosophy, 18, 328-330 Master of Science, 18-19, 324-326 Media, See The Beacon; Student Media Advising; WRGP radio Medical Insurance, 23 Mental Retardation Certificate, 19 Metropolitan Center, 59 Mission statement, 10 Modern Language Education (K-12) Master of Science, 17

Master of Science, 225
Modern Languages, 133–138
Modern Languages/Bilingual
Education
Doctor of Education Specialty
Track, 231
Multifaith Council, 44
Museum Studies Certificate, 171–
172
Music, Master of, 139–141
Music, School of, 56, 139–144
Accreditation, 14
Faculty, 139
Master in the Art of Teaching, 17, 19
Music Education, Master of

N

Science, 141

Non-degree seeking students, See Classification of students Nurse Practitioner Certificate, 20, 363–365 Nursing, School of, 57, 362–369 Accreditation, 14 Faculty, 362 Master of Science, 18–19 Nursing Administration Certificate, 20 Nutrition, See Dietetics and Nutrition Nutrition and Aging, National Policy and Resource Center on, 59

O

Occupational Therapy, 344–347
Accreditation, 14
Certificate, 20, 344–345
Faculty, 344
Master of Science, 18–19, 344
Ombudsman, Office of, 44
Online applications, See
Admissions
Orientation and Commuter Student
Services, 45

P

Parking rules and regulations, 26– 27, 60 Parks and Recreation, Accreditation, 14 Parks and Recreation Management, Master of Science, 17, 255 Past due accounts, See Fees Payment of fees, See Fees Peace Corps Masters, See Teaching English to Speakers of Other Languages (TESOL)

Index Physical Education, Master of Science, 17, 255-256 Physical Therapy, 348-353 Accreditation, 14 Faculty, 348 Master of Science, 18, 348350 Physics, 145-147 Doctor of Philosophy, 17 Faculty, 145 Master of Science, 17, 145 Physics Education (6-12) Alternate Track Masters program, 222-223 Master in the Art of Teaching, 17 Policy and Management, School of, 57, 370-373 Political Science, 148-151 Doctor of Philosophy, 17, 148-149 Faculty, 148 Master of Arts, 17, 19, 148 President, Office of the, 9, 50 Professional Certificates, See Continuing and Professional Studies, College of (CAPS) Professional Development Center, Psychological Services, See Counseling and Psychological Services Psychology, 152-156 Doctor of Philosophy, 17-18, 152 Faculty, 152 Master of Science, 17-18, 152 Public Administration, 379–386 Accreditation, 14 Certificate, 394 Doctor of Philosophy, 18, 380-381 Faculty, 379 Public Administration, Master of, 18-19, 371, 376 Juris Doctor Joint Degree Program, 381-382 Public Health, 354-358 Accreditation, 14 Faculty, 354 Public Health, Master of, 18-19, 354 Public Management and Community Services, Institute

for. 59 Public Management Certificate, 20, Public Opinion Research, Institute for. 59

Public Safety, 60

Reading, Master of Science, 18 Reading and Language Arts Certificate, 19, 232 Reading Education Doctor of Education Specialty

Track, 231 (K-12) Master of Science, 17 Master of Science, 225 Readmission, See Admissions Records, See Academic records Refunds, See Fees Registration, 32, 60 Reinstatement of classes. See Courses Release of student information from education record, 34-35 Religious holidays, See Academic calendar Religious Studies, 157-160 Certificate, 172 Faculty, 157 Master of Arts, 17, 19, 157 Residency information, 36-37 Residential Life, See Housing Rules and Regulations of the University Graduate School, 30-

S

School Guidance and Counseling Certificate, 19 Certification, 248 School Psychology Educational Specialist, 17, 250-251 Science Education (6-12) Master of Science, 17 Doctor of Education Specialty Track, 231 Master of Sciences, 225-226 Sexual Harassment, Nondiscrimination, Educational Equity, 45 Social Science Interdisciplinary programs, 72 Social Studies Education (6-12) Alternate Track Masters Program, 223 (6-12) Master in the Art of Teaching, 17 (6-12) Master of Science, 17 Doctor of Education Specialty Track, 232 Master of Science, 226 Social Welfare, Doctor of Philosophy, 18, 388-389 Social Work Certificate in Addiction, 388 Certificate in Practice with the Elderly, 388 Post MSW Certificate in Clinical Practice, 20, 396 Social Work, Management Certificate, 388 Social Work, Master of, 18-19, 387-388 Social Work, School of, 57, 387-392

Accreditation, 14

Faculty, 387 Sociology, Comparative Doctor of Philosophy, 17, 163 Master of Arts, 17, 162 Sociology and Anthropology, 161-Southeast Environmental Research Center, 59 Spanish Doctor of Philosophy, 17, 19, 133-134 Master of Arts, 17, 19, 133 Spanish Education (6-12) Alternate Track Masters program, 223-224 (K-12) Master in the Art of Teaching, 17 Spanish Language Journalism, 413 Emphasis in Investigative Reporting, 412 Investigative Reporting Certificate, 20 Special Education, Master of Science, 17, 248-250 Special Education/Varying Exceptionalities (K-12) Master in the Art of Teaching, 17 Specific Learning Disabilities Certificate, 19 Speech Language Pathology, Masters in, 359 Sports, See Athletics; Campus Recreations; Fitness Center Sports Sciences, See Exercise and Sports Sciences Statistics, 167-169 Faculty, 167 Master of Science, 17, 167 Stipends, See Financial Aid Student Affairs, Master of Science, 235-236 Student Conduct and Conflict Resolution, 45 Student Health Services, 60 Student Media Advising Certificate, 20, 412 Student records, See Records

Taxation Executive Master of Science. 187, 189 Master of Science, 17, 19, 189 Teaching English to Speakers of Other Languages (TESOL) Master of Science, 17, 226 Peace Corps Master's International Program (MIP), Technology Equation, Master of Science, 17

Study Abroad Program, 46

Support Services, 60-61

Summit of the Americas Center, 59

Technology Management, Master of Science, 319-320 Telecommunications and Information Technology Institute,

59, 288 Telecommunications and

Networking, Master of Science,

TESOL, See Teaching English to Speakers of Other Languages (TESOL)

Thesis requirement, See Masters Degree requirements

Time limits, See Doctoral degree requirements; Master degree requirements

Tourism and Technology, Center for, 59

Tourism Studies, Master of Science, 18, 403-404 Transcripts, See Academic records

Transfer of graduate credit, 21-22 Transnational and Comparative Studies, Center for, 59 Transnational and Regional Studies

Certificate, 172-173 Transportation Access Fee, See Fees

Traveling scholar program, 23 Tuition and fees, See Fees

H

University Graduate School, See Graduate School University Learning Center, 61 University Park Campus, 12 Urban Education, Master of Science, 8, 17, 237-238 Urban Education and Innovation, Center for, 59

Value-added Tract, See

Accounting, Master of Values statement, 10 Veterans information, 35-36 Victim Advocacy Center, 47 Visual Arts, Master of Fine Arts, 17, 78 Vocational Education. Administration and Supervision Master of Science, 233 Vocational Home Economics Education Master of Science, 238 Vocational Industrial Education. Master of Science, 17, 238-239 Volunteer Action Center, 47

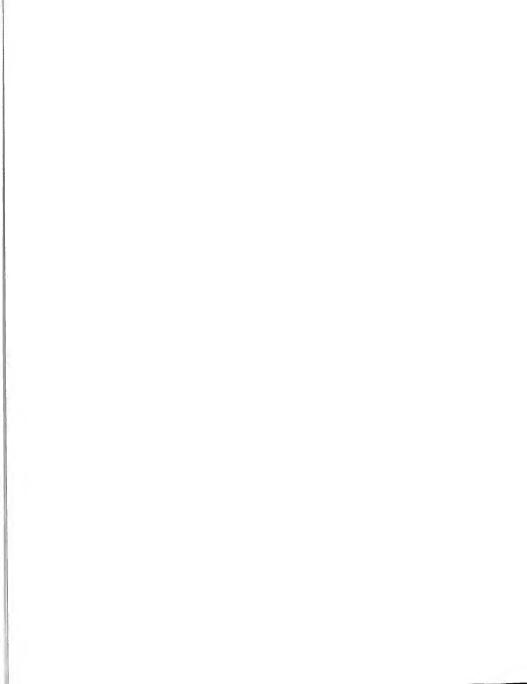


Weekend degree programs, 19. See also Individual colleges and schools Wellness, See Health Care and Wellness Center Withdrawal from the University, 32 The Wolfsonian-FIU, 48, 59, 61 Women's Center, 47-78 Women's Studies Center, 59 Workforce Competitiveness, Institute for, 59 WRGP radio, 45

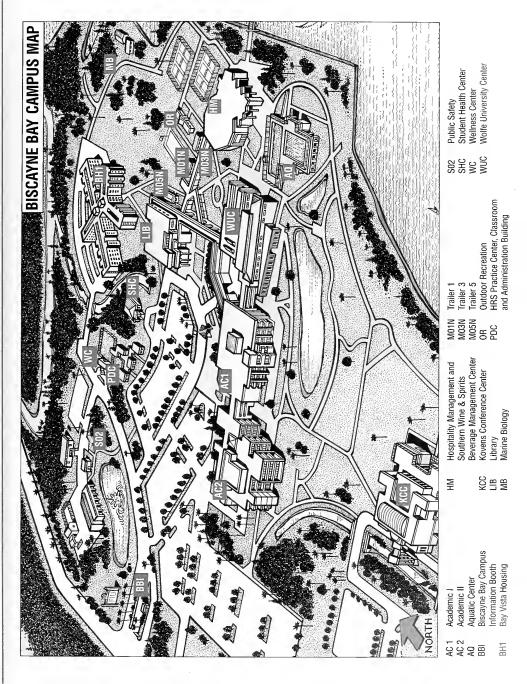


Youth Development, Center for, 59















University Patk 11200 SW 7th Street Miami, FL 33199

Biscayne Bay Campus 3000 NE 1314 Succes North Minuri, 81-33181

The Pines Center 17195 Sheridan Street Pambroke Pines, FL 13331

